A student. An employee. A solutions seeker. Kok Hon is one and all. With the Industrial Postgraduate Programme (IPP), he is empowered to pursue full-time PhD studies while conducting research at DNV GL, Singapore.

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NTULink is a quarterly magazine mailed free to all alumni of NTU. Articles and Classnotes from alumni are most welcome. Whilst care has been taken in compiling the contents of this magazine, we assume no responsibility for the effects arising there from. Opinions expressed therein do not necessarily represent those of the Alumni Affairs Office, the Nanyang Technological University, or the publisher. Contributions for the September-November 2016 issue should reach the Editor by 15 September 2016. All information is correct at press time.

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Enjoy more discounts with the NTU Alumni Card!

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NTU topped the Quacquarelli Symonds (QS) rankings of the world’s young universities for the second consecutive year last year. This year, NTU has also emerged as Singapore’s top institution in research for the second consecutive year in the 2016 Nature Index, where the University was ranked No. 1 in Singapore among universities as well as among research institutions.

In Times Higher Education’s latest ranking of the world’s best young universities, we have leapt to the 2nd position. In the Quacquarelli Symonds (QS) World University Rankings by Subject, 19 of NTU’s subject fields made it to the world’s top 50. NTU’s engineering disciplines led the University’s improved standings, with Materials Science rising to its highest position so far at 6th place globally, up from 8th last year, while Electrical & Electronic Engineering maintains its Top 10 standing at No. 8.

In addition to that, our students have also made NTU proud. They won six awards at this year’s Shell Eco-marathon Asia, an annual international race where teams from academic institutions compete on fuel efficiency and innovation. With this, team NTU emerged as the best performing university this year, turning in Singapore’s best performance.

NTU continues its pursuit to engage in breakthrough research and development projects through notable partnerships with renowned organisations.

The following are some of the latest notable accomplishments:

1. Last year, NTU established the Sino-Singapore International Joint Research Institute in partnership with the Sino-Singapore Guangzhou Knowledge City Administrative Committee, the SSGKC Investment and Development Co. Ltd, and South China University of Technology (SCUT). The signing of the agreement at the Istana was witnessed by Chinese President Xi Jinping and Singapore’s Prime Minister Lee Hsien Loong during President Xi’s two-day state visit to Singapore.

In March this year, I led an NTU delegation to Guangzhou to reaffirm NTU’s commitment in the collaborative partnership. Together with SCUT President Prof Wang Yingjun, we met Guangdong Governor Zhu Xiaodan and Guangzhou Mayor Wen Guohui. It was also our pleasure to host Prof Yu Long, the newly appointed Executive Dean of the Joint Research Institute, who visited NTU in May this year.

2. NTU and SMRT launched the new SMRT-NTU Smart Urban Rail Corporate Laboratory which will develop technology-driven solutions to build a more resilient and reliable urban rail system. The $60 million Corporate Laboratory will integrate the rail operations and engineering capabilities of SMRT with NTU’s research strengths in engineering.

3. NTU has established the new College of Professional and Continuing Education (PaCE) College to advance adult education and professional development for Singapore’s workforce to better manage the rapid technological changes rippling through today’s increasingly competitive economy and industrial landscape. Through PaCE, NTU can support the alumni community to upgrade their skills and knowledge to advance their career journey. There will be more details announced soon.

4. NTU launched the Ageing Research Institute for Society and Education (ARISE) and the Centre for Population Health Sciences (CesPHaS) to provide solutions to health and lifestyle challenges faced by the elderly.

5. NTU launched the Singapore Centre for 3D Printing which will develop innovative solutions in this area. 3D printing or additive manufacturing has been identified as an essential enabler in the Advanced Manufacturing and Engineering technology domain under the Research, Innovation and Enterprise (RIE) 2020 Plan.

Whilst NTU advances rapidly in education and research, the University also places emphasis on engaging our alumni community. The NTU Alumni Council, which I chair, held its inaugural meeting in March. It comprises Presidents of school-based, interest-based, halls of residence-based and selected overseas Alumni Associations, as well as active leaders representing NTU and its two predecessor institutions – Nanyang University and Nanyang Technological Institute. The Alumni Council will play an important role in engaging the diverse NTU alumni community. At the same time, I hope that through the council, we will see a giving culture amongst alumni who contribute to their alma mater.

I am also pleased to announce that Guo Sam Nan has been appointed Chief Alumni Affairs Officer of the Alumni Affairs Office from 1 April. This is a newly created role that focuses on building and strengthening the relationship between NTU and our alumni. Moreover, I would like to take this opportunity to thank Scon Min Yam for overseeing the development of the Alumni Affairs Office since 2004. He has been appointed Director of International Alumni Network to continue this good work.

In March, I had the wonderful opportunity to attend a fantastic event in Manila, the Philippines for launching NTU’s 45th overseas alumni chapter. The Singapore Ambassador to the Philippines, Ms Kok Li Peng and the Philippine Ambassador to Singapore, Mr Antonio A. Morales attended the ceremony. During the event, it was heartening to witness the camaraderie amongst our NTU alumni based in the Philippines, miles away from NTU but keeping their alma mater close in their hearts.

I encourage alumni to make a trip back to our beautiful Yunnan Garden campus as we now have amazing new facilities for all to enjoy. The swanking new North Spine Plaza, which has numerous new eateries and retail outlets, brings the NTU community together, creating greater vibrancy on campus. There are free monthly movie screenings as well as performance stages for students, staff and even alumni, to showcase their diverse talents.

The rapid developments and remarkable progress which NTU is experiencing could not have been possible without the strong support of everyone in the NTU community, which includes you, our alumni. We appreciate your dedication and commitment and we shall continue to work together to build an enriching lifelong relationship.

PROFESSOR BERTIL ANDERSSON
PRESIDENT
NANYANG TECHNOLOGICAL UNIVERSITY
An entrepreneurial journey is one that is not always smooth sailing for some who decide to pursue it. Managing an enterprise with considerable risks and initiative at the same time, does not always come easy.

Nevertheless, becoming an entrepreneur, running one’s own business, pursuing a passion and watching it grow is most satisfying for NTU alumni who have made it big as entrepreneurs.

Programmes

NTU places importance in its strategy on innovation and entrepreneurship across the campus, bringing innovation to the heart of the University’s activities. The University has in place, numerous programmes which boost the students’ and alumni’s pursuit of becoming successful business owners.

NTUitive is the University’s innovation and enterprise company which supports the University’s mission to develop an innovative ecosystem to encourage innovation, foster entrepreneurship and facilitate the commercialisation of research.

It creates an environment where there is a shared vision of innovation and academic entrepreneurship; where faculty and students are encouraged to explore opportunities, take measured risks, learn from failure and challenge long-held assumptions. It is also responsible for managing the intellectual property assets of the University and to help take technology from lab to the marketplace.

Through collaboration between Singapore’s Economic Development Board and NTU, the Nanyang Technopreneurship Center (NTC) was established in 2001 with the vision to become a leading center of excellence for technopreneurship education. With a dedicated team of human talent, NTC helps to develop Responsible Technopreneurs and Aspiring Philanthropists.

Besides undergraduate and graduate programmes, NTC also provides the Entrepreneurship Development Programme (EDP) which is an extension of NTC’s entrepreneurship education initiative that caters to the diverse needs of entrepreneurs and intrapreneurs. For example, the Kauffman FastTrac® programmes equip aspiring and established entrepreneurs with the business skills and insights, tools, resources, and peer networks necessary to start and grow successful businesses.
Frank is the founder of Sunseap Group Pte Ltd (Sunseap), a holding company for a trio of companies that include; Sunseap Leasing Pte Ltd, Sunseap Energy Pte Ltd and Sunseap International Pte Ltd.

Sunseap Leasing is Singapore’s largest clean energy provider, and solar asset owner. Sunseap Leasing promotes solar leasing, a zero-cost clean energy solution where Sunseap fully finances the solar systems. Clients only pay for the electricity consumed. Sunseap Energy provides clean energy solutions utilising off-site arrangements by drawing on solar systems within the Group’s portfolio of distributed generation assets. Sunseap International targets markets in the South East Asia Pacific region and beyond. Sunseap’s portfolio of clients include Housing and Development Board (HDB), Apple, Panasonic, ABB and Singapore American School.

Already an established clean energy provider in Singapore, Sunseap Leasing received a major boost in 2015, when it was awarded the SolarNova project, the largest solar tender launched to date, covering 76 MegaWatt-peak (MWp) of installation across 831 HDB Blocks, eight Ministry of Home Affairs (MHA) and Public Utility Board (PUB) sites. In the same year, Sunseap also announced a groundbreaking deal in the region to supply Apple’s operation. The company has total contracted projects of over 180 MegaWatt-peak (MWp) capacity in Singapore.

In its illustrious history, Sunseap Leasing has been recognised by several bodies for the good work it has done. Its projects were bestowed the Solar Pioneer Awards by the Economic Development Board (EDB) in 2012 and 2013. That same year the solar champion was the proud recipient of the Green Technology Award at the Singapore Business Federation’s Sustainability Awards. Sunseap Leasing was also the winner of the Emerging Enterprise 2014 organised by OCBC and Business Times. Most recently in 2015, the company was awarded Overall Winner in the Association of Small and Medium Enterprises’s (ASME) Entrepreneur of the Year Award in the New Entrepreneur Category.
Mr Chinmay Malaviya

(SCE/2012)

Listed in the Forbes 30 Under 30 Asia 2016, Chinmay helped start the regional food delivery platform Foodpanda and became its CEO in the first market, Singapore. He opened Foodpanda in Hong Kong and then became Vice President of business development in corporate management. Foodpanda now operates in some 40 countries, serving 600,000 restaurants.

For Chinmay, the most rewarding aspect of his job is to be able to build something that has a positive impact in the daily lives of people. “With foodpanda, we saw the opportunity in adding convenience to the busy lives of the working population by getting their food delivered at a click of a few buttons. We were able to add delivery as one more option to how people looked at their daily meals along with queues at food courts, casual dine-in restaurant, and cooking their own meals,” he shares.

To become successful, Chinmay believes that nothing is impossible. “It is all about your focus and approach to a problem. I am very results driven and this has made me evaluate the impact of each of my actions and accordingly balance the priorities to maximise the growth or improvement in the business,” adds Chinmay.

Mr Lim Kok Eng Samuel

(NBS/2002)

Samuel, the man behind one of the region’s biggest e-commerce success stories, is the co-founder and CEO of the Reebonz Group. Reebonz.com was founded in 2009 as an e-tailer aimed to make luxury accessible.

It has further expanded to a C2C mobile app marketplace for individuals to sell their pre-owned luxury goods under Reebonz Closets. It also launched the Reebonz Marketplace aggregating the world’s best new and pre-owned luxury boutiques into its platform in 2015. Samuel leads a team of over 350 at the company, which was valued at around $250 million in an early 2013 financing round led by media giant MediaCorp.

He is also the founder of eFusion Solutions Pte Ltd, a direct sales and marketing company. The serial entrepreneur’s first start-up was mobile content company eFusion Pte Ltd, which he founded while still an NTU undergraduate in year 2000. The company, which was acquired in 2006, was making S$8 million in annual sales by the time he graduated.

Samuel was the President of the Singapore chapter of the Entrepreneurs’ Organisation (EO), which seeks to build the world’s most influential community of entrepreneurs, from 2009 to 2010. He has also served as President of the Audio Text Service Providers association, and is a member of the Young President’s Organisation (YPO), Singapore.

He believes in giving back to society by helping to mentor young, budding entrepreneurs, and sharing his experiences. Mr Lim has made time to work with NTU’s students, collaborating with the Computer Engineering Club on the Reebonz Hackathon Challenge in 2013.
Today, Chinmay remains as an advisor and shareholder at foodpanda, but he has moved on from the operational front and is currently working on some new ideas to build a start-up with a strong social element attached. “One of the areas I am actively pursuing is to start a venture builder in the developing markets of Southeast Asia that focuses on building companies that solve problems for the masses, such as in healthcare and financial planning,” shares Chinmay.

And what keeps him going? “Never settling to easy choices in life is what matters to me the most. I have always believed in following my heart and to never let complacency or pressure get the best of me.”

Also listed in the Forbes 30 Under 30 Asia 2016, Ted is the co-founder of Evercomm, a company providing energy management analytics solution. Headquartered in NTU’s Innovation Centre, the company provides end-to-end energy management solutions for enterprise, which includes energy data collection, data migration, data analysis and insights reporting.

To date, it has generated over S$3.4 million in energy savings and S$1 million in revenue and has also received accreditation as an innovative energy and analytics company from the Infocomm Development Authority.

Ted shares that as an NTU student, he was given lots of opportunities to learn about and experience entrepreneurship via the Minor in Entrepreneurship which he enrolled in whilst pursuing his undergraduate engineering degree programme.

“As I studied to become an accomplished engineer, I was also able to learn how best to pitch an idea and prepare a good business plan to support the idea. Upon graduation, I started Evercomm with my co-founder, who is my fellow alumnus from EEE as well. I am thankful for the chance to work with Assistant Professor Wen from NTU’s School of Computer Engineering to commercialise a technology which will help factories and campuses save energy costs.”

This new technology could help companies and factories cut their energy bills by as much as 10 per cent as it analyses energy consumption by tapping on sensors in computer chips already found in equipment such as computers, servers, air conditioning systems and industrial machinery.

“With NTU’s new analytic engine, such large semi-conductor factories and campuses could save up to S$1 million a year without a need to change much of their hardware, and instead, tune their operation and time their energy usage.”

“The new algorithm allows us to use the most cost-effective way to find out where we can save energy, and our performance can be guaranteed by using real-time data.”
NTU ALUMNI SPORTS FIESTA
20 August 2016
9am - 1pm
NTU Sports & Recreation Centre

Team
4 x 100m Relay Run (Mixed)
3-on-3 Basketball (Men’s / Women’s)

Doubles (Men’s / Women’s)
Badminton
Table Tennis
Tennis

For registration and more information, please visit www.ntu.edu.sg/alumnievents/sportsfiesta
For enquiries, please email to alumnievents@ntu.edu.sg
Closing date for registration 20 July 2016
Alumni engagement today, Antarctica exploration tomorrow

We speak to the newly minted NTU Chief Alumni Officer Mr Guo Sam Nan to find out more about his ambition to build a cohesive alumni community through more targeted alumni engagement initiatives.

Mr Guo Sam Nan has travelled to more than 50 countries, setting foot on every continent in the world except Antarctica.

His final destination? “the last travel goal in my bucket list”, as he jokingly puts it – is to visit the Earth’s southernmost Continent.

But before he explores Antarctica, NTU’s newly-appointed Chief Alumni Officer hopes to explore and win the hearts of the University’s more than 200,000 alumni in 149 countries across the globe.

He says: “In this Information Age, we must explore and develop new ways to engage our alumni more effectively. My top priority is to broaden our communication channels in order to better understand various needs of our diverse alumni community.”

“Based on the information and understanding, we can formulate sound strategies and work out new ways to serve our alumni, nurture their loyalty and strengthen their affinity with their alma mater, and gradually cultivate a giving culture for the alma mater.”

Sam is excited about the opportunity to contribute to NTU’s new initiatives to better connect with and engage alumni both locally and overseas. These include the recently set-up NTU Alumni Council that comprises mostly presidents of alumni associations, associations based on schools, interests and halls, as well as active leaders representing NTU and its two predecessor institutions – Nanyang University and Nanyang Technological Institute.

Looking back, Sam mentioned that he appreciated the efforts Mr Soon Min Yam, the former Director of NTU Alumni Affairs has put in for alumni engagement.

“Over the past 11 years, Min Yam has laid a solid foundation for NTU alumni relations. I am glad that he has been appointed Director of International Alumni Network to continue the good work,” shares Sam.

To engage in alumni affairs is a new area of responsibility for Sam, whose previous role at NTU was related to developing and managing training programmes for senior government officials from Asian countries at the Nanyang Centre for Public Administration. Prior to that, he managed and developed international programmes for University of California, Los Angeles (UCLA), while adjunct teaching for MBA programmes at UC Berkeley, UCLA and Pepperdine University in the US.

To fully prepare himself for the challenge of “jumping onto a running train as a new captain”, Sam spent three months, prior to taking up the position, doing research on how American and European universities
manage alumni affairs while gathering information on NTU alumni’s landscape and how alumni affairs are handled.

Sam has learned about three key takeaways from studying the approach of American universities for alumni relationships. First, alumni relationships must be nurtured and cultivated from a very early stage, that is, when freshmen enter a university. A happy university experience is the fundamental basis for lifelong alumni relationship. Second, the starting point of alumni engagement is a thorough understanding of the needs of alumni. And thirdly, the purpose of alumni engagement is to satisfy the diverse and segmented needs based on different demographic, psychographic, professions or interests, and so on.

Compared to Asian universities, Sam continued, most American and European universities have had more success and experience in the area of alumni relationships, which result in a strong culture of giving back to alma maters. “But don’t forget”, he emphasised, “that they have a long history of alumni relationship. The history of alumni relationship can be traced back to 1792 when Yale University graduates started an organised group”.

But he believes that alumni of Asian universities are not much different than their American counterparts in terms of compassionately and supportively giving back to their alma mater for a good cause.

“The words ‘alma mater’ and ‘alumni’ are Latin words, meaning ‘nurturing mother’ and ‘foster son’ respectively,” shares Sam, “So if we look at it from this perspective, it’s not unattainable to convince Asian alumni to give back to their alma mater just as most of Asian cultures emphasise on respecting and supporting parents as a lifelong commitment. In fact, it’s not difficult to list a few well-known examples, such as Mr Gordon Wu, a Princeton alumnus from Hong Kong, who donated US$100 million to Princeton University in 1995; Mr Gerald Chan, a Harvard alumnus from Hong Kong, who donated US$350 million to Harvard University in 2014.”

He adds that alma mater-alumni relations should be a “two-way street” – for instance, graduates should be able to reap the benefits of the university’s resources and global alumni network after they join the workforce. “NTU alumni can seek out career advancement and business opportunities through our vast network, and lifelong education from their alma mater.”

On a personal note, Sam is certainly passionate when it comes to the topic of lifelong learning. He describes himself as being naturally curious from a young age, saying: “I like to read about all sorts of subjects including astronomy, geography, science, philosophy, psychology, literature and arts, languages, cooking, and wine.” But the avid reader concedes that he is less adept than his wife and son when it comes to the art of writing in English. His wife, Professor Zhou Min, an academic with NTU’s School of Humanities and Social Sciences, is “famed for her productivity in writing books and academic papers”;

meanwhile, his son Philip has already published two well-received books, the first of these a chronicle of his unique childhood.

“He had lived in different countries with us, and it was challenging for him to move around with us because he would lose his friends each time we moved,” explains Sam, “Philip was born in China and followed me to Europe when I migrated to Switzerland for work. After that, we moved to the United States: first to Louisiana in the South, then New York in the East, and finally Los Angeles in the West.”

While he and his family are certainly well-travelled, Sam says he has not seen enough of the world just yet. “Honestly, I have enjoyed every country I’ve been to because each one has its own unique culture, scenery, as well as good food and wines. There are nearly 200 countries in the world, so there are still a lot of places I hope to visit.”

“It’s difficult for me to say which country is my favourite. I believe in my own motto: the next one is always the best one.”

Reading and travelling aside, Sam’s other passion is hiking. Since picking up the hobby 13 years ago, he and his wife have hiked at several famous locations including the Himalayas in Nepal, Machu Picchu in Peru, across the Alps in France, Italy and Switzerland, and to the peak of Mount Kinabalu in Eastern Malaysia.

He shares: “When I lived in Los Angeles, my house was located at the foot of a hill. I used to hike there often after I got home from work. During weekends, we usually hiked with a team of comrades in different trails in the mountainous area around Los Angeles.”

“This hill is about 200m tall, so I was a bit disheartened when I first moved to Singapore and discovered that the highest “mountain” here is Bukit Timah Hill, which is 164m high!” he adds with a laugh.
NTU Alumni Council holds its inaugural meeting

The newly formed NTU Alumni Council will be an important bridge of communication between the University and its alumni community.

The NTU Alumni Council, chaired by NTU President Professor Bertil Andersson, comprises Presidents of school-based, interest-based, halls of residence-based and selected overseas Alumni Associations, as well as active leaders representing NTU and its two predecessor institutions - Nanyang University and Nanyang Technological Institute.

The first meeting held on 19 March was attended by Prof Andersson, 38 council members, NTU Board of Trustees member Mr Inderjit Singh, NTU Vice-President for Education Strategies and Alumni and Advancement Professor Lee Sing Kong, NTU College of Engineering Dean Professor Chen Tsuhan, NTU College of Humanities, Arts and Social Sciences Dean Professor Alan Chan, NIE Faculty Affairs Dean Professor Michael Chia, then Chief Alumni Officer Designate Mr Guo Sam Nan and then NTU Alumni Affairs Director Mr Soon Min Yam.

In his welcome address, Prof Andersson emphasised the significance of the formation of the NTU Alumni Council to better engage the diverse NTU alumni community. At the same time, through this council, Prof Andersson hopes to see a giving culture amongst alumni, who contribute to their alma mater.

Prof Andersson presented on ‘NTU’s journey to become the world’s fastest-rising university’ where he shared NTU’s latest achievements in world university rankings as well as the University’s latest developments in research, education and campus infrastructure.

Prof Lee Sing Kong gave a presentation on ‘NTU alumni engagement’ where he
highlighted the various ways in which the University could engage its alumni more effectively and shared some of the new initiatives and developments planned by the University.

In the dialogue session that followed thereafter, the council members discussed and provided feedback on alumni engagement matters. Some of the points raised included suggestions on how to cultivate and enhance affinity to NTU; how to effectively communicate and engage between NTU and alumni and among alumni; how to encourage more alumni to give back to their alma mater; and what initiatives should NTU take to support and benefit alumni.

After the conclusion of the meeting, council members adjourned to the President’s Lodge for a delectable lunch hosted by Prof Andersson. A campus tour was conducted thereafter where the alumni visited the latest developments in NTU such as The Hive, North Spine Plaza, Pioneer and Crescent Halls of Residence, and the School of Art, Design and Media building.

A networking dinner at the President’s Lodge concluded the day’s programme.
NTU President Prof Bertil Andersson gave an update on NTU’s achievements for the past year and its future plans during the State of the University Address.

Celebrate, NTU!

Members of the University community join in the celebrations looking back on NTU’s accomplishments in the past year and looking ahead to an exciting 2016.

The event started with NTU President Professor Bertil Andersson’s State of the University Address which he addressed to a packed auditorium. In his address, Prof Andersson recapped the main events organised by NTU in conjunction with SG50 celebrations. These included NTU Fest, NTU Alumni Homecoming and the Honouring of Pioneer Educators, and the inaugural Nobel Prize Series in NTU, amongst others.

Prof Andersson also updated the audience on NTU’s achievements in the various university rankings and research impact citations, as well as developments in research, education and campus infrastructure.

He highlighted that as Singapore is giving high priority to future skills, the University will pay attention to providing ICT-based education and recorded lectures to people in their mid-careers who must combine managing jobs and learning new skills.

Following President’s address, Prof Andersson and NTU Provost Professor Freddy Boey presented the Nanyang Awards to outstanding faculty, staff and students for their achievements and contributions. The Awards were presented to 35 individuals and four teams.

Amongst these recipients, two professors were honoured with the Nanyang Education Awards (University) which were presented for the second time since their launch last year. Associate Professor Gan Chee Lip from the School of Materials Science and Engineering was conferred the Gold Award and Associate Professor Ng Pak Tee from the National Institute of Education was conferred the Silver Award.

After the auditorium programme, it was time to enjoy the party at The Quad which included a delectable buffet lunch and food stalls, exciting games and entertaining performances. The FUSE Music Festival which went on till late into the night featured performances by CAC Jazz & Blues, Sabby & the Cats, HubbaBubbas and NTU hall jam bands.

Celebrate NTU! – a special day for the entire NTU community comprising students, faculty, staff and alumni, to come together to mark the University’s achievements – was held on 8 March at the University’s Nanyang Auditorium and The Quad. It was the fifth time this signature event was held on campus since the inaugural event in 2012.

The Party at the Quad included a delectable buffet lunch and food stalls, exciting games and entertaining performances for all to enjoy.
We’re rocketing upwards!

NTU continues to ascend numerous university rankings in 2016.

No. 2 in Times Higher Education’s Top 150 Under 50 Ranking
Nanyang Technological University (NTU Singapore) has leapt to the 2nd position in Times Higher Education’s latest ranking of the world’s best young universities.

The only Singapore university listed in the Top 150 Under 50 ranking, NTU jumped three spots, overtaking three other Asian universities which were ahead of NTU last year. Switzerland’s École Polytechnique Fédérale de Lausanne retains the top spot.

The 150 Under 50 list uses the same 13 performance indicators found in the overall Times Higher Education University Rankings, but with a reduced weighting on academic reputation to reflect the special characteristics of younger universities.

19 NTU subjects in global top 50 in Quacquarelli Symonds (QS) World University Rankings by Subject
NTU’s engineering disciplines lead the university’s improved standings, with Materials Science rising to its highest position so far at 6th place globally, up from 8th last year, while Electrical & Electronic Engineering maintains its Top 10 standing at No. 8.

Engineering subjects also achieved the most impressive gains, with two new areas in the global top 20. NTU’s Mechanical, Aeronautical & Manufacturing, jumped four spots to 13th place, while its Computer Science & Information Systems, which is also the University’s biggest mover, leapt 7 places to 14th.

No. 1 in Singapore in 2016 Nature Index
NTU emerged as Singapore’s top institution in research for the second consecutive year in the 2016 Nature Index, where the University is ranked No. 1 in Singapore among universities as well as among research institutions. Globally, NTU is ranked 32nd among universities and 37th among the global research institutions.

Keeping its place within Asia’s Top 10, NTU was placed 7th among universities and 8th among all research institutions in Asia. NTU’s highest achievement was in Chemistry where it was placed 5th. In Physical Sciences, NTU was placed 27th among universities.

Nine of NTU’s disciplines now rank among the world’s top 20. They are: Materials Science (6th), Electrical & Electronic Engineering (8th), Mechanical, Aeronautical & Manufacturing Engineering (13th), Computer Science & Information Systems (14th), Education (14th), Communication & Media (15th), Chemistry (15th), Civil & Structural Engineering (18th), and Chemical Engineering (18th).
SMRT-NTU Smart Urban Rail Corporate Laboratory launched

The joint research laboratory will develop technology-driven solutions to build a more resilient and reliable urban rail system.

SMRT and Nanyang Technological University, Singapore (NTU Singapore) have launched a joint research laboratory to develop technology-driven solutions to build an urban rail system that is even more resilient and reliable as Singapore moves towards a car-lite future.

The new SMRT-NTU Smart Urban Rail Corporate Laboratory was officially launched on 20 May by the Coordinating Minister for Infrastructure and Minister for Transport, Mr Khaw Boon Wan.

Supported by the National Research Foundation (NRF) Singapore under its Corporate Laboratory@University Scheme, the $60 million Corporate Laboratory will integrate the rail operations and engineering capabilities of SMRT with NTU’s research strengths in engineering. It is aimed at driving the effective translation of research into solutions that have direct relevance in addressing our national needs and meeting global challenges. The SMRT-NTU Smart Urban Rail Corporate Laboratory is the first laboratory under this scheme to focus on rail transport capabilities.

The first research track focuses on developing better detection methods and monitoring systems so that potential issues can be addressed quickly and accurately, even before they happen. With real-time data from sensors which monitor critical rail equipment, timely and accurate decisions can be made to address a fault before a potential service delay.

This research track aims to allow components and parts to be repaired or replaced immediately on the same day. This greatly reduces the need to disrupt train services during operation hours and prevents technical issues from escalating into a problem.

The second research track aims to enhance the reliability of existing rail assets by optimising maintenance and servicing processes. By using prediction methodologies and analytical tools to produce accurate data, the life span of train components and systems can be better assessed.

Track Two’s research projects will help in refining maintenance schedules to reduce potential problems, and ensure that train and track components are performing at their best.

The SMRT-NTU Smart Urban Rail Corporate Laboratory will also nurture engineering specialists in the rail industry who are prepared to tackle future national transportation challenges and develop innovative transportation solutions that can be used globally. It will provide training opportunities for over 100 undergraduates, 35 graduate students and 60 researchers, across a broad range of specialisations.
SETTING THE PACE FOR PROFESSIONAL READINESS

NTU establishes new College to advance adult education and professional development for Singapore’s workforce to better meet future challenges.

The new College of Professional and Continuing Education (PaCE College) will develop programmes for continuing professional education and development, to equip Singapore professionals, managers and executives (PMEs) with updated knowledge and skills to keep pace with the rapid technological changes rippling through today’s increasingly competitive economy and industrial landscape.

On 1 May, Singapore Prime Minister Mr Lee Hsien Loong announced that the National Trades Union Congress (NTUC) will partner NTU to support working adults, especially PMEs, to upgrade their skills. The Labour Movement is injecting $200 million into the NTUC-Education and Training Fund to support this, and NTU is NTUC’s first university partner.

Under the NTU and NTUC partnership, the PaCE College will be offering 28 undergraduate-level courses for part-time study starting from August 2016. These courses have been developed for technology-enhanced learning using the new flipped classroom pedagogy. Spanning 13 weeks each, the courses are for key growth sectors such as Biomedical Instrumentation, Data Analytics, Digital Electronics, Nanomaterials fundamentals and applications, as well as advanced Molecular Genetics, Sustainability, and Enterprise and Innovation.

NTU and NTUC are currently working closely to identify and develop more courses to meet the specific needs of groups such as business owners and senior executives of small and medium-sized enterprises, as well as freelancers and the self-employed in subsequent phases of this partnership.

NTUC members will enjoy a course fee subsidy of up to $250 per year under the Union Training Assistance Programme (UTAP), on top of the SkillsFuture subsidy, while non-union members can use their SkillsFuture credit given by the Government to offset the course fee.

PaCE College will subsume NTU’s Office of Professional Education and Centre for Continuing Education, and draw upon NTU’s world-renowned faculty and strong connections to key industries to support working adults to update, upgrade and upskill in their journey to attain their professional goals and personal educational aspirations.

Besides the credit-bearing courses drawn from various undergraduate and graduate academic programmes across a wide spectrum of disciplines, PaCE will also offer executive, personal development and enrichment non-credit courses.

For more information about the continuing training and professional development programmes offered by NTU’s College of Professional and Continuing Education, please visit this website, copace.ntu.edu.sg.
NTU launches Singapore’s first 3D printing centre

The $42 million centre will develop innovative solutions in 3D printing.

Singapore’s first 3D printing centre was launched on 17 May by Minister for Trade and Industry Mr S Iswaran. It is funded by the National Research Foundation (NRF) Singapore under its Medium-Sized Centre Grant at a funding of S$42 million over 10 years.

3D printing or additive manufacturing has been identified as an essential enabler in the Advanced Manufacturing and Engineering technology domain under the Research, Innovation and Enterprise (RIE) 2020 Plan.

Additive Manufacturing is one of the cross-cutting technologies that undergird and support Singapore’s key industry sectors such as in Aerospace and Defence, Marine and Offshore, and Building and Construction. The global market for Additive Manufacturing is expected to grow to $21 billion by 2020.

NTU President Professor Bertil Andersson said the University has huge potential to develop 3D technologies for Singapore, which is changing business models, and the way things are being manufactured.

“At NTU, we have some of the world’s leading scientists and engineers in this field to research, develop and facilitate industry adoption of 3D printing applications to strengthen Singapore’s economy and better the lives of people. We aim to groom the next generation of 3D printing engineers so as to grow the much needed manpower for this rapidly developing sector,” he said.

NTU Professor Chua Chee Kai, one of the world’s most-cited scientists in 3D printing will lead the Singapore Centre for 3D Printing as the Executive Director.

The new research centre has already attracted an additional S$41 million in funds from industry and various government agencies. During the launch ceremony, NTU Chief of Staff and Vice President for Research Professor Lam Khin Yong signed four new research collaboration agreements with ST Engineering, Keppel Offshore & Marine Technology Centre (KOMtech), Sembcorp Design and Construction and Emerson Process Management, a world leading automation provider.

NTU’s partnership with Emerson Process Management will see the creation of a joint laboratory and an additive manufacturing centre at their Singapore facility. There will be two joint research projects focused on using 3D printing methods to design and produce complex engineering parts.

Scientists at the NTU centre are working on several new developments in construction including a new way to 3D print customised concrete structures for buildings, such as rooms, beams and pillars. This automated process is expected to be more cost effective and environmentally friendly than current casting methods.

Another research project that the new centre is working on is to automate the production of a fibre-reinforced construction material where concrete is sprayed into a surface with supporting wire mesh. The new process will allow for new advanced materials to be combined with concrete to make stronger walls.

▲ Minister for Trade and Industry Mr S Iswaran (far right) viewing an exhibit – a concrete 3D printing robot being developed at NTU.

▲ NTU and ST Engineering built the small UAV using 3D printed parts.
On 6 May, Nanyang Technological University launched the Ageing Research Institute for Society and Education (ARISE) and the Centre for Population Health Sciences (CePHaS) to provide solutions to health and lifestyle challenges faced by the elderly. The launch was officiated by Minister for Health Mr Gan Kim Yong.

ARISE will study ways that the silver generation can stay healthy through disease prevention, treatment and management, in addition to encouraging an active lifestyle and promoting lifelong learning. NTU will develop technological innovations aimed at improving quality of life despite the challenges brought about by ageing.

As a multi-disciplinary institute, it will bring together the strengths of NTU’s schools and research centres, ranging from business and engineering, to medicine, humanities, sports sciences and even urban design.

It will also work with the Centre for Population Health Sciences (CePHaS) which will tackle pressing healthcare problems and develop practical solutions to improve overall population health.

The new centre is led by NTU’s Lee Kong Chian School of Medicine and supported by various healthcare and government agencies such as the National Healthcare Group.

NTU President Professor Bertil Andersson said: “One of the biggest problems impacting the world today are the challenges faced by rapidly ageing populations. By adopting an integrated and multidisciplinary approach towards ageing research, NTU can tackle this problem effectively, and improve the quality of life for Singaporeans as people live longer today with better management of chronic diseases.

“NTU will develop quality research to enhance our understanding of how Singapore is evolving as a society, and find the most effective solutions to sustain vibrant and resilient families, and communities.”

Helmed by Professor Theng Yin Leng, ARISE is NTU’s answer to the challenge of creating a healthy and active ageing society through research, innovation and education.

The new NTU centre will study fresh healthcare approaches such as developing smartphone apps to manage chronic diseases as well as to address healthcare issues. Commonly known as digital health (or eHealth), some of these apps could also be part of a doctor’s prescription to help patients better manage their symptoms and recovery using the convenience provided by smartphones.

Another focus of the centre is end-of-life care and support – an area that is often neglected. Individuals, families and societies need to be well prepared so that they can better care for loved ones during and beyond their final years of life.
New endowed professorship in Korean Studies and research programme in emerging fields launched

NTU is launching Singapore’s first endowed professorship in Korean Studies, a collaboration with the Korea Foundation, and a new five-year research programme in technology and innovation with the Korea Advanced Institute of Science and Technology (KAIST) and Technion-Israel Institute of Technology (Technion).

The Professorship will be hosted by NTU’s College of Humanities, Arts and Social Sciences and is the first professorship with a full-tenured endowed position in Korean studies in Singapore. The endowed professor, expected to be appointed by August 2017, will specialise in contemporary Korean society studies and also lead in curriculum development.

The KAIST-NTU-Technion five-year joint research programme will see the three universities conducting joint research in emerging areas that demonstrates strong potential for innovation, entrepreneurship and commercialisation.

The five areas identified are robotics, medical technologies, satellites, materials science and engineering and entrepreneurship. These areas are also important research pillars for NTU, and are aligned with Singapore’s Research, Innovation and Enterprise 2020 (RIE 2020) research blueprint unveiled by Prime Minister Mr Lee Hsien Loong in January this year.

New Centre for RMB Internationalisation Studies (CRIS) launched

TU is partnering China’s central bank, the People’s Bank of China (PBOC), to launch the new Centre for RMB Internationalisation Studies (CRIS) which will study the demand and use of the Renminbi (RMB) in international markets.

The joint centre will leverage the expertise in finance from NTU’s Nanyang Business School (NBS) to train policymakers and finance executives in RMB policies and internationalisation process.

Located at NTU, the centre will be jointly managed by the PBOC’s China Centre for Financial Training and NBS. Besides assessing RMB’s impact on the world economy and trade, the new centre will also provide thought leadership on RMB through conferences and forums for top finance leaders and policymakers. It will share research papers in public domains and maintain a comprehensive economic and finance database for research and academic use.
Deepening insights into the science of learning

TU and Johns Hopkins University (JHU) – have joined forces to support leading scientists from Singapore and the United States in their multidisciplinary research into the science of learning.

Under the direction of NTU’s Centre for Research and Development in Learning (CRADLE@NTU) and JHU’s Science of Learning Institute, the projects will bring together scientists from diverse disciplines, language neuroscience researchers and neuroimaging experts from both NTU and JHU to work with children and young adult learners in Singapore.

To start off, $3 million in competitive funding has been made available in a bid to stoke frontline research into this area over the next two to three years. Both universities hope that this new seed funding programme will uncover innovative and fresh ideas to refine existing teaching strategies and pedagogies to optimise students’ learning.

For a start, NTU and JHU are embarking on three joint research projects focussing on bilingual language acquisition, bilingual reading and technology enabled learning.

Partnering on helicopter manufacturing technology

TU and Finmeccanica, through its Helicopter Division manufacturing AgustaWestland products, are partnering on helicopter production and technologies with the final aim to establish a collaborative technology research centre to be set up at NTU.

With this partnership, Finmeccanica and NTU look forward to contributing to the aerospace technological advancement by sharing talents and know-how, promoting scientific research and developing engineering and industrial capabilities.

The two parties believe in being drivers in the rapidly evolving rotary wing industry, whose changes are highlighted by the progresses in composite materials, reduction in hydraulics and dynamic components, growing efficiency in industrial processes.

▲ NTU Chief of Staff and Vice President (Research) Prof Lam Khin Yong (seated, left), signing the MOU with Managing Director of Finmeccanica Helicopter Division Mr Daniele Romiti (seated, right). The signing was witnessed by (standing, left to right) His Excellency Mr Paolo Crudele, Ambassador of the Republic of Italy; Ms Pema Han, Europe-Based Centre Director, EDB Singapore; and Mr Chris Pook, Regional Head of UK Trade & Investment.

▲ One research project will look into the use of technologies in higher education, and the effectiveness of team-based learning. The study aims to discover how technology can be more effectively used to motivate students at different stages of social interactions during the team-based learning process.
New degree programmes in humanities, arts and social sciences launched
The four-year direct honours degrees will prepare students for a new world of connectivity.

Nanyang Technological University, Singapore (NTU Singapore) launched seven new undergraduate degree programmes in the humanities, arts and social sciences. These will be offered by the College of Humanities, Arts, and Social Sciences (HASS) in August with the start of the new academic year.

Six of these new programmes are double major programmes offered by the college’s School of Art, Design and Media, School of Humanities and Social Sciences, and the Wee Kim Wee School of Communication and Information. Leading to a Bachelor of Arts with Honours in both majors, these six programmes with a strong interdisciplinary theme are designed for high achievers.

The new offerings include a first in Singapore – a combination of English Literature with Art History. The Double Major in English Literature and Art History will help professionals in their visual and critical awareness so they can effectively contribute to Singapore’s exciting Arts and Culture environment.

Another new programme is a joint communication and business degree leading to an honours degree in Communication Studies, with a second major in Business. This is offered by the Wee Kim Wee School of Communication and Information in conjunction with the Nanyang Business School. Taught by top international faculty, communication students will gain advanced leadership skills and specialised knowledge in marketing and finance, all of which will offer them distinct advantages in their careers.

The Double Major in Economics/Psychology and Media Analytics will enable students to understand complex data, and effectively engage the shifting social and digital media landscape. Students will gain high-level competency in evaluating organisational opportunities and risks in today’s dynamic and ever-changing media scene. It will also sharpen their analytical ability with respect to the complex information found in web and social media applications.

Senior Associate Provost of Undergraduate Education, Professor Kam Chan Hin, shared that the new interdisciplinary programmes give students the extra edge that will boost their careers. This is important as employers today look for graduates who demonstrate critical thinking and analytical skills, as well as intellectual curiosity, which are qualities necessary to tackle problems creatively from new perspectives across different disciplines.

With these seven new offerings, NTU will offer 110 undergraduate degree programmes for the new Academic Year 2016/2017 which starts in August.

New programmes offered by NTU’s College of Humanities, Arts and Social Sciences
- Double Major in Economics and Media Analytics
- Double Major in Economics and Psychology
- Double Major in Economics and Public Policy & Global Affairs
- Double Major in English Literature and Art History
- Double Major in Psychology and Linguistics & Multilingual Studies
- Double Major in Psychology and Media Analytics
Discoveries@NTU

Using bubbles to shoot drugs into tumours

A new way to deliver cancer drugs deep into tumour cells has been invented by NTU scientists. They created micro-sized gas bubbles coated with cancer drug particles and iron oxide nanoparticles, and then used magnets to direct these bubbles to gather around a specific tumour.

Ultrasound is then used to vibrate the microbubbles, providing the energy to direct the drug particles into a targeted area.

This innovative technique was developed by a multidisciplinary team of scientists, led by Assistant Professor Xu Chenjie from the School of Chemical and Biomedical Engineering and Associate Professor Claus-Dieter Ohl from the School of Physical and Mathematical Sciences.

Asst Prof Xu said their new method may solve some of the most pressing problems faced in chemotherapy used to treat cancer. Current chemotherapy drugs are largely non-targeted. The drug particles flow in the bloodstream, damaging both healthy and cancerous cells. These drugs are flushed away quickly in organs such as the lungs and liver, limiting their effectiveness. The remaining drugs are also unable to penetrate deep into the core of the tumour, leaving some cancer cells alive, which could lead to a resurgence in tumour growth.

“The first unique characteristic of our microbubbles is that they are magnetic. After injecting them into the bloodstream, we are able to gather them around the tumour using magnets and ensure that they don’t kill the healthy cells,” explained Asst Prof Xu.

Improving effectiveness of antibiotics

NTU scientists have discovered that antibiotics can continue to be effective if bacteria’s cell-to-cell communication and ability to latch on to each other are disrupted.

This research breakthrough is a major step forward in tackling the growing concern of antibiotic resistance, opening up new treatment options for doctors to help patients fight against chronic and persistent bacterial infections.

The study, led by Assistant Professor Yang Liang from the Singapore Centre for Environmental Life Sciences (SCELSE) at NTU, found that a community of bacteria, known as biofilm, can put up a strong line of defence to resist antibiotics.

“Many types of bacteria that used to be easily killed by antibiotics have started to develop antibiotic resistance or tolerance, either through acquiring the antibiotic resistant genes or by forming biofilms,” said Asst Prof Yang, who also teaches at NTU’s School of Biological Sciences.

He added that his team’s study has shown that by disrupting the cell-to-cell communication between bacteria and their ability to latch on to each other, the biofilms can be compromised, leaving the bacteria vulnerable and easily killed by antibiotics.

Palm-sized radar cameras

A chip that allows new radar cameras to be made a hundred times smaller than current ones has been developed by NTU scientists. With this NTU technology, radar cameras that usually weigh between 50 kg and 200 kg and are commonly used in large satellites can be made to become as small as palm-sized.

Despite being small, they can produce images that are of the same high quality if not better compared to conventional radar cameras. They are also 20 times cheaper to produce and consume at least 75 per cent less power.

Developed over the past three years by Assistant Professor Zheng Yuanjin’s team of five at NTU’s VIRTUS IC Design Centre of Excellence, the promising technology has already secured S$2.5 million in research funding from Singapore government agencies.

The radar chip has attracted the attention of several multinational corporations, and is now being researched for use in Unmanned Aerial Vehicles (UAVs) and satellite applications.
TU undergraduates won six awards at this year’s Shell Eco-marathon Asia, an annual international race where teams from academic institutions compete on fuel efficiency and innovation.

Held at Luneta Park in Manila, Philippines, two teams from NTU bagged four out of five off-track awards in this eco-car competition. They also won bronze awards in two electric vehicle categories where 117 teams from 17 countries competed.

With its six awards, team NTU emerged as the best performing university this year, turning in Singapore’s best performance.

NTU Venture 8, Singapore’s first 3D printed urban solar electric car, won three off-track awards - in Vehicle Design, Communications, and Safety. The car also raced against eight other teams in the Urban Concept (Battery Electric) category to finish in the third position. It has also been selected to be among the five teams to compete in the coveted Shell Drivers’ World Championship in London come July.

Team manager of the three-wheeler team Foo Shi Wei, a final-year mechanical engineering student, said: “With 3D printing technology, we are not only able to improve the car with customisable reinforced parts, but also ensure that there is minimal waste. The carbon reinforced plastic ensures that the car is as safe and strong as conventional ones on the road.”

Associate Professor Ng Heong Wah, who mentored the two NTU teams, said the students went the extra mile and used innovative ideas to significantly improve the cars. He shared that the students not only used their engineering knowledge, but also went beyond what they learnt in their curriculum to find new ways to improve fuel efficiency and performance while ensuring the safety standards.

NTU Venture 9, a three-wheel racer weighing 44 kg, finished a respectable third place against 14 cars in the Prototype (Battery Electric) category.

The racer, with hand-made contoured silicon solar cells to maximise the harvesting of solar energy, also clinched NTU’s third Technical Innovation award.

Team manager of the three-wheeler team Foo Shi Wei, a final-year mechanical engineering student, said: “With 3D printing technology, we are not only able to improve the car with customisable reinforced parts, but also ensure that there is minimal waste. The carbon reinforced plastic ensures that the car is as safe and strong as conventional ones on the road.”

With its six awards, NTU emerged as the best performing university at the Shell Eco Marathon Asia 2016.

Weighing at only 44 kg, the NTU Venture 9, a slick three-wheel racer, clinched the bronze award against 14 qualifying cars from an initial field of 73 entries. Photo courtesy of Shell.

The NTU Venture 8 (far left), Singapore’s first 3D printed urban solar electric car won four awards at the Shell Eco Marathon Asia 2016 and is selected to be among the five teams to compete in the coveted Shell Drivers’ World Championship in London.
Check out NTU’s swamping new North Spine Plaza!
Dining and retail outlets at the new North Spine Plaza

Come on down to the NTU campus to satiate your taste buds or for some retail therapy. Be spoilt for choice with the range of fast-food outlets, takeaway kiosks and cafes such as McDonald’s, Subway, Starbucks Coffee, Sushi Deli, Soup Spoon Union, Paik’s Bibim, Dunkin Donuts and more. There is even a food truck, Wheeliz Gourmet!

If you are looking to do some shopping whilst here, why not see what Prime Supermarket and Mini Toons & More have to offer? Book a holiday package at STA Travel or even have a quick haircut at kcuts! All dining and retail outlets open on weekdays, with some operating over the weekend as well.

There are free monthly movie screenings as well as performance stages for students, staff and even alumni, to showcase their diverse talents.

You may visit www.ntu.edu.sg/has for more information and updates.
A thinking man’s warrior to tackle terror

Commissioner General Tito Karnavian, the new head of Indonesia’s National Counter-terrorism Agency, brings to the job insights gleaned from NTU’s S. Rajaratnam School of International Studies.

Top of his class at the police academy, one-time head of Indonesia’s elite Densus 88 counter-terrorism squad, and former Jakarta police chief.

Few would argue that Commissioner General Tito Karnavian is not equipped to take the lead in Indonesia’s war on terror as head of its National Counter-terrorism Agency (BNPT).

The 51-year-old was appointed to the position in March this year. But his battle against terrorism started way back in 1999, when Indonesia’s then-Defence Minister faced an assassination attempt by an Islamist group.

He says: “Since then, I have been involved in investigating most of Indonesia’s terrorist cases. I really like the challenge and can feel the rush of adrenaline when dealing with challenging cases.”

“Thankfully, we have succeeded in solving most of these cases, tens of them. I strongly believe that our success can only be due to solid teamwork and blessings from God.”

General Karnavian has wasted no time setting goals in his new role. His main priority is neutralising the group in Poso, Sulawesi, led by Indonesia’s most wanted terrorist Santoso. He says: “This group is a symbol of open resistance to the government by the terrorist networks in Indonesia. Addressing this problem would reflect the effectiveness of the state in countering terrorism and demoralise the terrorist networks.”

He also hopes to prevent further terrorist attacks in Indonesia, such as the deadly bombings that shook Jakarta in January. As the city’s police chief then, General Karnavian led the hunt for the terror cells behind the attack which killed four civilians.
His work has been praised by the country’s National Police Commission. Its commissioner Edi Hasibuan told thejakartapost.com that General Karnavian is the right man to lead the BNPT: “We consider Tito an officer who has mastered terrorism issues. This can be seen in the way he handled the terrorist attack in Jakarta a couple of months ago.”

Counter-terrorism experts in the region have also described him as a thinking man’s warrior who complements a detailed knowledge of the terrorist landscape in Indonesia with first-hand operational experience fighting such radicals.

For instance, more than a decade ago, he led the assault on Islamist terrorists who had beheaded three Christian schoolgirls. After a one-day gunfight, he and his men “captured more than 100 people, seized thousands of rounds of ammunition and hundreds of guns and bombs”.

Eager to enrich his knowledge on the issue of terrorism and counter-terrorism, he also did a PhD in Strategic Studies at NTU’s S. Rajaratnam School of International Studies (RSIS), which aims to develop a community of scholars and policy analysts at the forefront of security studies and international affairs. Proving he is no slouch when it comes to academia, he graduated magna cum laude in 2013.

“We have to convince the public, media, our leaders, and many other parties that the problem remains. We have to share with them that it cannot be overcome by my agency alone, but requires a multi-party approach.”

He adds that international and regional cooperation are just as important in today’s environment of international terrorist networks which have Afghanistan, Iraq and Syria as “centres of gravity”.

“Such cooperation should focus on sharing intelligence, joint operations, containing the spread of radical ideology – particularly through the internet – and de-radicalisation. Of course, big powers must work together to neutralise those centres of gravity too.”

General Karnavian also places great importance on the process of rehabilitation, saying: “The radical mind-set of terrorists is shaped through a relatively long process involving inculcation and adoption of radical ideology.”

“Terrorist operations are just the tip of the iceberg of the radicalisation process and killing terrorists alone will not eliminate the threat. We must study this process and explore how to prevent people from being radicalised or rehabilitate them.”

He accepts the popular view that prisons can be an incubator of radicalism in Indonesia. “Terrorists who are inmates might have opportunities to interact with others and even plan an attack.”

“To deal with this issue, we categorise inmates into groups: hard-cores, operatives, supporters and sympathisers. The hard-cores – or those who are the most radical – must be sent to maximum security prisons where communication is restricted.”

On top of that, General Karnavian has the BNPT working closely with prison authorities to implement programmes of de-radicalisation targeting jailed terrorists and their families, which are then followed by a post-release programme. Counselling teams comprising of the likes of police officers, psychologists and Islamic scholars are already in place.

He also plans to tap on the resources of the RSIS and its International Centre for Political Violence and Terrorism Research – led by his PhD supervisor Dr Rohan Gunaratna, Professor of Security Studies – which conducts research, training, and outreach programs aimed at reducing the threat of politically-motivated violence.

“The Centre is second to none in this region. I have travelled to over 70 countries and visited many universities and think-tanks – it is exceptionally remarkable on the field of terrorism and counter-terrorism and has experts from many countries, including those facing terrorism-related problems.”

“It consistently monitors affairs in those countries and around the globe too, so I would visit the Centre if I need an accurate update of the global situation. By having a bigger picture of the landscape of terrorism and counter-terrorism, I can precisely analyse the dynamics of the terrorist threat in Indonesia. I can also pick up best practices used by other countries, and apply them there.”
DISCOVERING HAN SUYIN IN MALAYA

Physician and writer Dr Han Suyin was best known for her book *A Many-Splendoured Thing* that became a Hollywood hit but few are aware of Dr Han’s time in Malaya. Ms Ina Zhang, NTU alumna (HSS/2013) and journalist, in her new book *Han Suyin in Malaya* sets out to trace the steps of Dr Han Suyin’s 12-year stay at Malaya against a troubled era set in post-WWII conditions as a physician, writer, and public intellectual.

The book, co-published by the NTU Centre for Chinese Language and Culture (CCLC) and Global Publishing, was officially launched at the National Library on 24 April 2016. Ms Zhang laboured three years to produce her thesis *Han Suyin in Malaya* in 2013 for the Masters programme in Chinese Studies, under the supervision of Associate Professor Lee Guan Kin, at the School of Humanities and Social Sciences. Adapting her thesis into an eponymous book, Ms Zhang hopes to make available information that serves to fill the lesser known gap in Dr Han Suyin’s life and through this, to offer a glimpse into the historical evolution in post-war Malaya.

For her research, Ms Zhang relies on a wide range of primary and secondary materials which include the novels, memoirs, and essays of Dr Han Suyin, old newspaper archives, rare photographs, newly uncovered documents such as Dr Han’s lecture notes at the then-Nanyang University, and numerous interviews conducted across Singapore, Malaysia, and Switzerland with Dr Han Suyin’s family, friends, former colleagues and students.

Drawing upon extensive materials, this book is a deeply meticulous study that unearths, reconstructs and packs together the 12 years that Dr Han Suyin spent in Malaya to an unprecedented degree.

The book is published in Chinese, and Ms Zhang is currently working on an English version. We speak to Ms Zhang to find out more.

**Tell us a bit about yourself.**
I have always been interested in history; and being a non-local-born Singaporean, I get to know Singapore by studying its history. In particular, I am drawn to monographic studies of people who had left their marks in history in one way or another. Dr Han Suyin was one of them. In fact, I have published, in *Lianhe Zaobao*, the local Chinese paper, a number of essays on other historical figures as well, including writers, artists, and intellectuals from both the East and the West who came to Malaya in pre- and post-war years. A collection of these essays is expected to be released at the end of this year.

**What motivated you to undertake a study on Dr Han Suyin’s life and why Malaya?**
Dr Han Suyin as a person was intriguing to me because she had so many dimensions. Firstly, she was an Eurasian during a period where such a characteristic was highly uncommon and also less accepted in society; secondly, she was a well-known figure in the international literary scene; and at the same time, she was also a very outspoken public figure who often attracted controversy for her opinions and thoughts.

I believe these are also the reasons which made her such a fascinating subject, as some research and studies have been done on her literary works, her Eurasian identity, and her controversial views about the Chinese mainland.

However, I noticed that when it came to Dr Han Suyin’s 12-year stay in Malaya, there was hardly any meaningful research or notable mention in academia or even in mainstream media. For someone of her stature, this was something that surprised me, and represented an exciting opportunity to explore a relatively unknown territory and reconstruct this ‘missing period’ in her life.

**How significant was the Malayan period in Dr Han Suyin’s life?**
In my opinion, very significant. Malaya played a critical role in providing the circumstances, thus giving her the platforms and opportunities to participate in public discourse actively. Following the publication of her bestseller *A Many-Splendoured Thing*, she went on writing in Malaya, all on regional themes, including three full-length novels, two novellas and a good number of essays. At the same time, as she was getting more and more involved in local social and political issues, she became increasingly vocal.

© Ms Ina Zhang (HSS/2013) speaking at the book launch of ‘Han Suyin in Malaya’.
So to me, when we talk about Dr Han Suyin, we have to talk about Malaya. It was an indispensable period of her life that contributed to the type of person, writer and physician she matured into.

**During the course of your research, what impressed you most about Dr Han Suyin?**

I would say it was the duality in her character. Despite her social status, Dr Han Suyin was someone who concerned herself with the problems of the unprivileged groups in society that were unable to speak up for themselves. She had no qualms about expressing her honest opinions in public, even if it came with a risk of upsetting certain groups of people and may result in some inconveniences. Yet on the other hand, she was aware that because she was adored by Hollywood and the Western audiences, she could get away with speaking her mind, and deal with the repercussions while still remaining a relevant voice in the public sphere.

**Tell me about your meeting with Dr Han Suyin in 2012**

She was already 96 when we visited her at her home in Lausanne, Switzerland. Together with her family, we celebrated her birthday, which turned out to be the last one before she passed away in late 2012. Her love for literature was clear in the way she responded positively to the books we brought for her.

**Which is your favourite Dr Han Suyin book?**

Basing on my research, I'll have to mention two books – …*And The Rain My Drink* and *The Crippled Tree*. I like these two books because they captured valuable pieces in the history of post-war Malaya and modern China respectively.

**How was it like conducting the research?**

Practically, it was demanding because I was juggling the Masters programme on a part-time basis together with my full-time job at the time.

When I began my research in 2009, I had to visit the library in the evenings to view the microfilms and bring the materials home to study because the archives were not available online yet.

It was also near impossible to trace the whereabouts of every single person who was acquainted to Dr Han Suyin during her stay in Malaya because hardly any records were kept then. But thankfully, in one way or another through my interactions, I was able to obtain several leads and connect to a good number of people including the woman who used to work as Dr Han Suyin’s domestic helper.

**What was most challenging in putting this book together?**

To me, a person has to be evaluated in stages. Personality, behaviour, and mind evolve over time, making it such that it is virtually impossible to rely on a singular narrative to describe anyone.

In presenting the "Malaya period" in the life of Dr Han Suyin, which made up part of the life journey of this famous yet contradictory figure, I’m mindful that whatever goes into the book has to be objective, complete, fair and as accurate as possible. As a researcher and writer, I search and piece together information, verify them against relevant records, statements and evidences, and present to the reader what that has proven itself to be highly factual.

It is up to the reader to look at the materials and information in my book, and form their own interpretations and judgements of Dr Han Suyin during the 12 years she spent in Malaya.

**Who was Dr Han Suyin?**

Born to a Chinese father and a Belgian mother in Xinyang, China, Han Suyin (1916-2012) was a physician and writer who published several novels, memoirs, and essays during the latter half of the 20th Century. Her biographical novel *A Many-Splendored Thing* made her an international literary sensation, and its massive success spawned an Oscar-winning film and a popular TV soap opera on CBS. She received her medical degree in London, before moving to Hong Kong, and then to Malaya for 12 years. During her stay in Malaya, she successfully opened two clinics, one in Johor Bahru while the other in Chinatown, Singapore; served as a college health physician and lecturer at the then-Nanyang University; and was an outspoken public intellectual whose candid views on many social issues were often deemed to be controversial. After leaving Malaya, Dr Han, together with her third husband, Vincent Ratnaswamy, an Indian military engineer, stayed in Hong Kong for a few years where she continued to write before settling down in Lausanne, Switzerland. She passed away in 2012, at the age of 96.

**About the Han Suyin Scholarship Fund (in Translation Studies)**

In honour of Dr Han Suyin’s legacy, Madam Chew Hui Im, the adopted daughter of Dr Han, established The Han Suyin Scholarship Fund in 2013. The scholarship aims to develop, promote and support Chinese English literary translation in Singapore. It is awarded annually to an NTU undergraduate doing translation as a minor in the Division of Chinese, School of Humanities and Social Sciences.

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Be like Towkay Tan

We speak to a group of alumni from NTU’s School of Art, Design and Media who work together to develop a campaign on community integration.

What would you do for someone who is stranded in a foreign land and unable to spend one of the most precious occasions of the year with his loved ones?

That is the question posed by School of Art, Design & Media alumnus Lincoln Chia (Class of 2009) in the short film “Reunion 团圆饭”, part of the #WhyBeTowkayTan campaign led by Singapore-based video agency Sproud.

Also supported by the National Integration Council, the campaign uses candid interviews and storytelling to challenge xenophobic perceptions and share perspectives from both locals and immigrants on coexisting in Singapore.

The film tells the story of Towkay Tan who is frustrated by his Chinese National coffee shop runner’s inability to understand our local vernacular – such as kopi-o ko-song – even after six months in Singapore.

But the Chinese New Year season serves a timely reminder to Tan that his employee Ah Biao is a father, husband and son too – albeit one unable to return home to spend the season with his family. Hence, Tan invites his employee to join his reunion dinner.

Says Lincoln, the campaign’s creative director and film’s director: “These days, you get students from different countries coming here to study, so it’s only natural that they will continue to work in Singapore after they graduate. And if you eat regularly at coffee shops, you’ll notice the runners are no longer locals.”

“Why Be Towkay Tan/Reunion is not about telling Singaporeans to take sides (on the issue of community integration). Rather, I wanted to challenge them to think and ask themselves: Why not?”

As in: why not we come together to make the stay of our foreign guests just that little bit more welcoming?

Armed with an ideal he believed in, Lincoln made his pitch and managed to secure funding from the National Integration Council’s Community Integration Fund, adding: “In the past, they have supported events and activities like futsal in which both locals and foreigners come together, but this is the first time they have backed a short film campaign.”

A reunion within a reunion

While working on the film, Lincoln enjoyed a mini reunion of his own with his Art, Design & Media peers: eight out of nine of the core production team are alumni of the School, with the last member a graduate of the Wee Kim Wee School of Communication & Information.

However, executive producer Goh Kun Lei (Class of 2010) says: “We were just trying to source for people who are really good at their craft. It wasn’t anything like ‘Oh, you are from the School of Art, Design & Media, please join us’.”

“It’s quite interesting that it ended up that the main team is mostly from the school. I guess this could be because we are familiar with each other, and there is also a certain bond and trust present that is very important in filmmaking.”

But if sourcing for his film crew came naturally, Lincoln had a more difficult time finding acting talent.
Explains executive producer Amanda Tan (Class of 2009): “While there are good actors in Singapore, our talent pool is small so you tend to see the same faces over and over again. Fresh faces are hard to come by, what more finding an actual Chinese immigrant to play the lead role of Ah Biao.”

Luckily, their casting and talent manager Siew Shu Hui knew a contact who had cast a lot of people from different walks of life as extras and for commercials, and chanced upon a gem in the rough in Chinese national Li Wen Qiang.

Enthuses Lincoln: “It’s his first proper acting role – he’d previously only played bit roles as a passer-by or dead person. I was so impressed by him because he spent several nights practising his lines till perfection, he enters every scene prepared.”

“Even though Wen Qiang is not from the Sichuan region, he could deliver his opening line in the heavy Sichuan accent we were looking for.”

Indeed, the novice actor’s efforts paid off with the film catching the attention of online cinema platform Viddsee, which has more than two million monthly users. The WhyBeTowkayTan campaign has also been featured by popular local websites like Mothership and The Online Citizen, and internationally on China’s CCTV-4. So far, the short film has been screened in two film festivals – Maharashtra International Short Film Festival (Mumbai, India) and FoodCine (Singapore).

Most of all though, director of photography Lim Teck Siang (Class of 2009) hopes that the film manages to get its message across to Singaporeans, saying: “We are immigrants ourselves – we all came from different places initially, this land didn’t belong to us… Also, Singapore is not a country with big resources so you need a very strong talent pool. We have to be inviting for others to want to come here.”

"People must accept that we are all Singaporeans, we can all live together in harmony. But I think it won’t work if we are too aggressive in trying to communicate this idea. As a more passive form of communication, films might just be able to succeed in doing so.”

And buoyed by the success of this School of Art, Design & Media alumini-led project, Teck Siang has another aim in mind: “Most film crews who come from established schools, such as the LASALLE College of the Arts or Ngee Ann Polytechnic’s School of Film and Media Studies, have a very strong sense of identity. Our School is only about a decade old but we are already starting to feel a bit of this.”

“It would help if the School can organise sessions for us alumni to come back and meet with our juniors and talk to them about our experiences in the film industry, so they can learn from what we did right and what we did wrong.”

Amanda certainly believes in the value of peer learning, sharing: “I remember how we had to critique each other’s stories in our story writing classes at NTU. It was great for learning.”

On that note, she has some words of wisdom for their juniors. “I think a lot of people have the misconception: ‘I have a degree now so I should be all set’.”

“Your degree prepares you for the working world, but you are not going to graduate and go straight to being a famous director making feature films. Patience is important.”

“Also, be open to exploring new things – I graduated thinking that I would do this or that but my career has certainly changed over the years.”

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\[ The campaign’s creative director and film’s director ADM alumnus Lincoln Chia (Class of 2009) discusses community integration in the #WhyBeTowkayTan campaign. \]
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Expanding into the Philippines

NTU launches its 45th overseas alumni chapter.

Nanyang Technological University (NTU) officially launched its 45th overseas alumni association on 12 March 2016 at the Makati Shangri-La Hotel in the Philippines’ central business district. The NTU Alumni Association (Philippines) is headed by Ms Vinculado Jane Oliveros (WKWSCI/2004).

More than a hundred alumni were present at the event which was also attended by Singapore’s Ambassador to the Philippines Ms Kok Li Peng, the Philippine’s Ambassador to Singapore Mr Antonio Morales, NTU President Professor Bertil Andersson, NTU Vice President for Education Strategies and Alumni and Advancement Professor Lee Sing Kong, then Chief Alumni Officer Designate Mr Guo Sarn Nan and then Director of NTU Alumni Affairs Mr Soon Min Yam.

“You may be far away from NTU, but this gathering clearly shows how much you value your alma mater and the friendships forged during your studies. Our alumni in the Philippines now have a contact point and networking platform to NTU in Singapore. Through this, alumni here in the Philippines can be updated regularly on latest developments at NTU in Singapore,” Prof Andersson said in his speech.

Prof Andersson also delivered a presentation on ‘NTU’s journey to become the world’s fastest rising university’ where he updated the alumni and guests on NTU’s improved positions in various university rankings as well as recent developments in research, education initiatives and campus infrastructure.

A highlight of the event was the symbolic lighting of candles, which alumni and guests did via an application on their mobile phones. Hall lights were dimmed, and the virtual candles were switched on. As the candles were being “lit” by the alumni, the guests came up to the stage to “switch on” a ceremonial button marking the official launch of NTU Alumni Association (Philippines).

“These candles represent the wisdom that we have gained from our beloved alma mater, Nanyang Technological University. This light has brought us guidance, wisdom and knowledge that we have in turn shared to others. Today, we are given the opportunity to bask once again in the warmth of our experiences, the enlightenment that our education has given us and the sense of duty that continues to burn within all of us,” the alumni jointly read during the ceremonial candle lighting.

With the launch of the NTU AA (Philippines), NTU has established a total of 80 AAs comprising 35 in Singapore and 45 overseas. Prof Andersson said this global alumni network demonstrates that the NTU alumni are truly international and that NTU’s education has equipped them to excel in the global economy.

During dinner, alumni and guests also enjoyed a performance by some 50 grade school children from an institution run by a Philippine alumna. The children performed traditional Philippine dances to the tune, “Piliin Mo ang Pilipinas (Choose Philippines),” a campaign enticing visitors to enjoy the Philippines’ unique culture and warm hospitality. NTU AA (Philippines) committee members also joined the performance towards the end.

Cheers to a wonderful alma mater-alumni friendship!
It was an enjoyable Saturday morning for NTU alumni and their families and friends as they learn about the many benefits of herbs.

NTU alumni and their families and friends enjoyed a bumper harvest at the NTU Community Herb Garden on 16 April 2016. Organised by the NTU Alumni Affairs Office, the Saturday morning NTU Alumni Herb Garden Tour of the famed secret garden offered invaluable knowledge and bags of free herbs for everyone.

Mr Danny Teo, deputy director of NTU Development Office, presented many colourful snippets of the herb garden’s history and milestones, including how Mr Ng Kim Chuan founded the garden with a mission to help sick and needy patients. He was joined by herbalist and founding member Mr Tan Thean Teng, who introduced many herbs and plants grown in the garden and their medicinal benefits. He also shared many simple recipes for making natural health supplements. After an informative presentation, some participants toured the garden while others experienced a tuina (Chinese therapeutic massage) session.

Participants were encouraged to bring home many popular herbs which are known to alleviate a host of ailments and illnesses. The Sabah Snake Grass is believed to reduce cancer markers. The South African Leaf is an anti-oxidant which can reduce blood pressure and cholesterol. While some herbs may be an acquired taste, many are surprisingly tasty. One crowd-pleaser was the free-flow of refreshing and naturally sweet Stevia tea, which is suitable for diabetics.

For many, it was their first visit to the herb garden and they had arrived with an open mind to discover new knowledge. The day did not disappoint as it left everyone fascinated. Mr Wu Cheng Joo (CEE/2001), described the event as eye-opening. He was impressed with the garden’s history and the huge collage of herbal information and news clippings on display. “That’s how you can create awareness,” he said, sharing that he would return to the herb garden in the near future to learn more.

"Through this session, we know how to recognise useful herbs and make full use of them," said Ms Maggie Aw (ACC/1979). She had learnt about the herb garden from newspapers and was eager to bring family members to visit.

The session convinced Ms Aw’s sister-in-law, Ms Lim Wee Lee, who recently completed chemotherapy to try anti-
cancer herbs such as the *Sabah Snake Grass* and *Black Face General*. "I intend to plant the herbs and also give them to people who would benefit," said Ms Lim.

Living a healthy life the natural way certainly attracted young alumna Mr Ho Weng Seng David (EEE/2014) and his spouse to the tour. He shared: "The tour was insightful and nourishing for everyone, especially for the younger generation who don’t know much about herbs."

Witnessing the warmth and dedication of the herb garden’s team of volunteers even inspired many alumni to consider returning to volunteer or giving back in meaningful ways.

Established in 2009, the NTU Community Herb Garden is home to over 300 species of plants and herbs covering two acres of sloping land. Over 4,000 patrons have benefitted from the free herbs the garden provides.
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TU alumni attended the 38th Distinguished Alumni Forum titled ‘Mind your health’ at NTU Lee Kong Chian School of Medicine’s Novena Campus on 12 May. Speaker Associate Professor Wong Teck Yee spoke on the topic of optimising health through different life stages.

As a trained family physician, Prof Wong sees patients of all ages and health conditions. He mentioned that the role of the family affects a person’s well-being. There are different family life-cycle stages which include: a single young adult leaving home, a young couple getting married, families with children, families with adolescents, and so on. Prof Wong shared how one may become vulnerable when passing through these transition stages and that it is important for one to be able to move on from one stage to another smoothly.

Using the Biopsychosocial model, he explained the use of the holistic approach to patient care which has an impact on the biological, psychological and social aspects.

For a single young adult, two thirds of the cause of deaths is due to transport injuries, unintentional injuries, self-harm and violence. As they value what they want, these young people are risk takers, who face high levels of stress whilst seeking financial independence. Prof Wong advised people in this group to constantly be around others who portray good habits, to have a hunger to learn new things, and never to do anything that breaks the law.

For people in the middle age group, the cause of deaths is due to neoplasms, cardiovascular diseases, chronic and respiratory illnesses. These people have to watch their diet and eat healthy. Stress and the lack of sleep will impact the psychological well-being in particular for those in this group. It is essential for them to build good relationships with their family members.

Elderly people are encouraged to keep active, continue learning new things or take up sports in order to keep their brains active. As most of them in this group would be living alone, they would need to simplify their lives and pay attention to what is more important to them. They should stay in touch with their friends as when they become more involved, they will be more optimistic.

The forum session concluded with a lively question and answer session which was chaired by NTU’s Chief Alumni Officer Mr Guo Sam Nan with Prof Wong answering interesting questions from members of the audience.

“Singapore is an ageing population. The profile of the speaker interested me. I wanted to know some tips on how to keep healthy and to be able to share with my family and friends,” said one of the participants, Mr Ang Wei An Elijah (MSE/2015).
Modernising traditional Chinese medicine with robots

NTU alumnus Mr Zhang Yizhong (Class of 2010) shares his entrepreneurial journey experience and how NTUitive supported his ambition.

With Traditional Chinese Medicine (TCM) tuina (medical massage) treatments getting increasingly popular, many of us would have, at some point in time, subjected our sore bodies for some tuina in our bid to relieve our body aches or improve general wellness.

NTU alumnus Mr Zhang Yizhong who graduated in 2010, has five years of professional TCM experience in the areas of tuina and acupuncture under his belt. Yizhong, a Singapore-registered TCM physician, has provided a mind-boggling 50,000 treatment sessions in his five years of work in a TCM clinic here! Such is the popularity and demand for TCM treatment that Yizhong has seen his monthly salary rise steadily to a five-figure sum.

With a healthy monthly pay-check and what looks like a recession-proof job with an ever-increasing demand for TCM treatments, one would expect Yizhong to stay on his cushy job as most folks would. But Yizhong has set lofty goals for himself. He took the plunge by quitting his job, taking a drastic 95% pay-cut and sinking his savings into a start-up called AiTreat that aims to modernise TCM by introducing technology into tuina.

What motivated you to take the road less travelled?

TCM-Tuina is a very effective pain-management tool, especially for chronic pain treatments. However the heavy reliance on human labour has presented two key issues - that of inconsistent standards of treatment among practitioners due to fatigue, and a tight foreign-labour employment climate in Singapore. I believe it is necessary to modernise TCM-tuina and I received my inspiration by the use of robotic applications in modern medicine, such as the Da Vinci Surgery Robotic system, and with that, I came up with the idea of TC2R, the world’s first commercial TCM medical massage robot. I could have continued with my job but I feel that the current industry practice is not sustainable in the long term due to increasing demand for TCM treatments. I want to help revamp the way we do things in this industry.

What do you think are the challenges you face in growing AiTreat?

The biggest challenge would be to convince TCM practitioners to adopt our robots and to convince investors that our solution represents the future of TCM-tuina. The prototype is meant to complement the work of practitioners, taking away the laborious part of the treatment process, and not to replace the practitioners themselves. A trained TCM practitioner is still needed to administer the robot. According to local regulations, only a trained TCM physician or physiotherapist is authorised to do tuina, and not a regular massage therapist or masseur.

What is your proudest moment so far, during this entrepreneurial journey?

I have four other co-founders who help out on a part-time basis as they are currently in full-time employment. There was this occasion when the team was squeezed in a small room with our robot, trying to tackle a mechanical design challenge. At that instant, I felt so proud and happy that these young people are willing to join me to create something that could positively change the world.

What is the difference between your prototype and that of commercial massage chairs currently sold in the market?

Commercial massage chairs serve to promote general wellness while my prototype seeks to relieve and eliminate specific symptoms.

Did you receive any support in your entrepreneurial journey to set up AiTreat?

NTUitive, NTU’s innovation and enterprise company, has helped us in many ways. Ms Seah Yew Fuan, a member of NTUitive’s friendly enterprise development team, was assigned to us from Day One. She helped us with our government-grant application, and the allocation of a mentor who, other than providing useful business advice, also introduced us to a community nursing home to test our prototype.

We were also introduced by Ms Seah to the CEO of the largest TCM group outside of China, who, despite his busy schedule, met up with us and provided valuable feedback and encouragement. In addition, we were granted access to NTUitive’s Open Lab and 3D printing facilities and were allocated a work-room space too.

For more information on NTUitive and its complete suite of incubation services, please contact them at:

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**Succeeding in your career**

The NBS Women Series: Leadership in Banking & Finance event held on 24 February at The Arts House (Chamber Room) featured some inspiring sharing, soul-searching insights and unmistakably real issues shared by expert alumni speakers.

Ms Shirin Ismail (NBS/1992), the Senior Vice President and Head of Absolute Return Investment Strategies from Fullerton Fund Management Company, urged women in the audience not to lower their principles and to show that they are willing to take on more responsibilities.

Second speaker for the evening was Ms Janet Young (NBS/1995), the Managing Director and Head of Group Channels and Digitalisation in United Overseas Bank Limited. She shared valuable insights on scaling to the top and emphasised the importance of knowing where your strengths are, investing to build upon these strengths and to dream big.

Mr Han Kwee Juan (NBS/1995), the CEO of Citibank Singapore Limited was the final speaker. He shared passionately about the various initiatives Citibank has put in place to encourage women to climb the corporate ladder, and how he strongly believes that women are as capable and confident as men.

Besides the insightful and enlightened sharing by our esteemed speakers, the panel discussion moderated by NBS Associate Professor Lee Boon Keng also saw a lively exchange of views from both the men and women present.

**Networking in Hong Kong**

The NBS Focus Point event in Hong Kong titled ‘Moving the needle on enterprise performance’ held on 14 April at Four Seasons Hotel, was attended by some 50 alumni, corporate partners, recruiters, employers and guests.

During the lunchtime talk, NBS Professor Nigel Phang shared success stories and caveats in formulating the right talent strategy through the application of talent analytics and network performance management.

In the evening, the NBS Dean’s Reception was attended by some 62 alumni and guests. NBS Dean Prof Ravi Kumar, NBS Associate Dean for Executive Programmes and External Relations Associate Professor Low Buen Sin, and NTU Chief Alumni Officer Mr Guo Sam Nan were present to address the alumni during the event.

President of the NTU Alumni Association (AA) (Hong Kong SAR) Mr Liew Han-Young (CSE/1995), introduced the AA’s Executive Committee and spoke about the AA’s objectives, events and future plans. Alumnus Mr Ivan Yong (MAE/2002), co-founder of Nanyang Angelz, shared how the organisation is able to assist alumni entrepreneurs who aim to build successful start-ups.

**Gaining insights on wealth accumulation**

The fourth forum on Collection of Wealth with the theme ‘Road Show of MBA Venture Projects’, held on 26 April 2016, was successfully organised by NTU Alumni Association (Shanghai).

The forum provided insights on how three unique MBA entrepreneurial projects collaborated to source for funds and resources. The projects were aimed at developing senior management and business leaders who will possess a deep sense of responsibility and a broad global vision in the future, as well as training students to become new-age innovative and courageous talents who can thrive in complicated environments and take on various challenges in the future.

The first two speakers were renowned lawyer Mr Qu Feng (MSc Finance/2009) and financial expert Dr Sun Yuan (EMBA/2011). They highlighted the importance of overseas corporate mergers and corporate finance for companies venturing overseas, as well as the importance of pre-Initial Public Offering financial management before being listed.

Mr Huang Haila, Director of Jin Pu Investment of Shanghai, also shared his insights on the MBA projects, tapping on his auditing and financial management experience.

The event concluded with a presentation from alumnus Mr Ong Khim Kiat (B.Sc./1975), Secretary General of Singapore Chamber of Commerce in Shanghai, on the latest trends in Singapore’s financial markets.
**Revisiting NTU with my students**

Ms Rochelle Razo (English Executive Programme/2008) the Vice President for Associate Programmes in the NTU Alumni Association (Philippines), writes about her return to the NTU campus during a tour for teachers and students of John Dewey School for Children, in the Philippines.

Ms Rochelle Razo (seated, centre), with some of her students at NTU’s Lee Wee Nam Library.

**“This place is awesome!”**

That was the usual comment we heard from students of John Dewey School for Children as Mr Jensen Tan and Mr Bruce Kee from the NTU Alumni Affairs Office brought 20 school children and 10 teachers from the John Dewey School for Children, in the Philippines, for a tour around Nanyang Technological University on 22 April 2016.

As we walked briskly between buildings in the summer heat, one could not deny the fact that the smile on our faces was as sunny as the sun above. Our eyes were feasting on the amazing architecture, high-tech facilities, and relaxing nature surrounding the campus. Our first stop was the National Institute of Education (NIE). Ever since we started our school’s internationalisation programme, NIE has been a significant part of our itinerary. This year was made even more special as we brought our floorball players to hear one of the most engaging Physical Education lecturers in NIE, Dr Nicholas Aplin. Mixing humour, personal stories, and student participation in his lecture, Dr Aplin excellently demonstrated how teachers could grab students’ attention and sustain it until the end of the lesson.

After NIE, we were brought to the hippest place in NTU, The Hive. Awestruck to witness the unique design of this building, we were particularly amazed at its ‘cool’ interior, the stunning art works etched on the walls, not to mention the cozy but highly-equipped study rooms and library. Immediately our pupils were convinced that NTU is where they would want to go to in the future.

A university tour is not complete unless one visits its library and that was what we did. We explored the Lee Wee Nam Library, NTU’s main library which provides a conducive environment for individual students to study and for groups to engage in collaborative projects. To enhance group learning, the facility is equipped with learning pods with LED screens and interactive whiteboards, a number of multi-monitor and touchscreen PC workstations, a recording room, a video wall and access to digital newspapers around the world. Everyone in the group was so amazed by the strong support of the NTU leadership to provide each student with world-class learning facilities and faculty. Coming from a developing country, we could not help but feel envy.

It was a truly memorable and enriching learning experience touring around the university. The close interaction between our pupils and the NTU professors, staff, and students made our young learners appreciate deeply the benefits of cultural diversity.

Furthermore, the gathering was generously sponsored by several China-based NTU alumni who are business and enterprise owners.

Distinguished guests attending the event included Mr Xu Zhiuning, Secretary-General of the Western Returned Scholars Association; Professor Er Meng Hwa, NTU Vice-President for International Affairs; Mr Guo Sam Nan, NTU Chief Alumni Officer; Mr Soon Min Yam, Director of International Alumni Network, NTU; Ms Shi Yue, Vice-President of Beijing City Federation of Returned Overseas Chinese-cum-President of the Haiian District Federation of Returned Overseas Chinese; Mr Cheng Lu, Member of the Chinese People’s Political Consultative Conference (CPPCC), Vice President of the 9th Committee of the National Federation of Industry and Commerce of China-cum-Chairman of the Association for Promotion of West China Research and Development; and Ms Samantha Toh, First Secretary of Singapore Embassy in China, among many others.

With the theme ‘Studying abroad with a view to repay the motherland, and to promote friendship with practical actions’ the event saw Mr Xu Zhiuning and Prof Er delivering speeches, whilst Mr Wang Jinhao, the Executive Council Member of the Western Returned Scholars Association Chinese Overseas-Educated Scholars Association and Vice-President-cum-Secretary-General of the Chinese Overseas-Educated Scholars Association (Southeast Asia and South Asia Branch), gave a summary report on the annual work of the Branch. Ms Sun Xia (EMBA/Class of 2006), President of NTU Alumni Association (Beijing) also provided an update of the AA’s past year’s work and the AA’s perspectives.

The annual gathering which comprised three different segments, commenced with a morning leisure walk in Nan Hai Zi Country Park led by NTU alumni Mr Zhang Zhichong (EMBA/Class of 2006) and Mr Zhu Bing (MPA/Class of 2015).

A special forum, presided by Mr Guo Hongyu (NBS/Class of 2011), was held in the afternoon where Professor Wang Qingguo, from the University of Traditional Chinese Medicine; Mr Cheng Lu, Member of the Chinese People’s Political Consultative Conference-cum-Vice President of the 9th Committee of the National Federation of Industry and Commerce of China; and alumnus Mr Sun Jian (MEA/Class of 2010) who is the Principal of Demao Middle School, gave insightful lectures on healthy living, economic situation and dynamic education.

**Gathering of friends in Beijing**

The 2016 Joint Annual Gathering of the NTU Alumni Association (AA) (Beijing), Western Returned Scholars Association Chinese Overseas-Educated Scholars Association (Southeast Asia and South Asia Branch) was successfully held in Demao Middle School in Beijing on 15 May 2016.

Hosted by the Western Returned Scholars Association Chinese Overseas-Educated Scholars Association (Southeast Asia and South Asia Branch), the event was organised by the NTU Alumni Association (Beijing), and supported by the National University of Singapore (NUS) Alumni Association (Beijing), the Alumni Associations of Chinese Returned Students from Malaysia, Thailand and the Philippines.
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**Go60**
www.go60.sg

Go60 is Singapore’s only fixed-price lifestyle spa boutique concept by Mary Chia Holdings Limited. You can enjoy high-quality treatments without price uncertainty or prepaid packages. Go60 aspires to make facial, massage and slimming services an alternative form of lifestyle. Busy executives who need a quick pick-me-up can look forward to an enjoyable and pampering experience. Go60 offers effective, affordable and fuss-free options - be it a facial, much-needed massage or a detox wellness session to kick-start a sluggish metabolism or to alleviate water-retention problems.

**Mary Chia**
www.marychia.com

Mary Chia has over 30 years of experience and expertise in providing premium and quality beauty, slimming and spa services for women. To date, Mary Chia has seven studios in Singapore and five studios in Malaysia. The Mary Chia brand has also received numerous awards and accolades over the years.

**Offer I**: For new members sign-up:
- Receive a $150 service credits redeemable on ala-carte facial / weight management service(s) or selected regular packages(s)

**Offer II**: For existing members:
- $58 for Intensive Weight Vaporiser / Anti-Aging Treatment Facial / Aromatherapy Body Massage (45min | U.P $145)
- $388 for 1 Set of Experience the most advanced and complete MU Essential Hydrating Series (U.P $452) which includes MU Essential Facial Wash, Refining Lotion, Moisturizer and All-day UV Defence Mist Spray)

**Masego The Safari Spa**
www.masego.com.sg

Indulge your senses in signature spa therapies inspired by Mother Nature as you experience the lushness of a Safari haven and be greeted by the gentle humming of tropical birds at Masego The Safari Spa. Be transported into a haven of true tranquility amidst a native and natural resort setting with an encampment of 14 canopied tents. The safari signature treatments include Warm Therapeutic Herbal Ball Therapy, Pure Earth Divine Facial and The Earth Below Foot Spa.

**Offer I**: Enjoy additional 30min massage when you purchase any facial, slimming or massage therapy at $60 NETT at Go60

**Offer II**: 15% off ala-carte menu as birthday treats

**Offer I**: For new members sign-up:
- Receive a $150 service credits redeemable on ala-carte facial / weight management service(s) or selected regular packages(s)

**Offer II**: For existing members:
- $58 for Intensive Weight Vaporiser / Anti-Aging Treatment Facial / Aromatherapy Body Massage (45min | U.P $145)
- $388 for 1 Set of Experience the most advanced and complete MU Essential Hydrating Series (U.P $452) which includes MU Essential Facial Wash, Refining Lotion, Moisturizer and All-day UV Defence Mist Spray)

**Offer III**: Birthday month:
- Complimentary Treats
  - 30min | worth $88: Express Deep Cleansing Facial / Body Sculpting Wrap and Detox Sauna / Tension Relief Back Massage

**Offer I**: Enjoy additional 30min massage when you purchase a 60min foot or body massage
- 60min Royal Foot Massage at $58
- 60min TCM Body Massage at $68

**Offer II**: 15% off ala-carte menu as birthday treats
Theresa Beauty Slimming & Fitness  
www.theresa.com.sg

Theresa Beauty has a rich history of more than 30 years and a philosophy that beauty comes from within. Theresa Beauty has a holistic focus on both internal health and external body contouring weight management. With Theresa Body Skin Wellness’s suite of 360-degree professional solution and guidance that is safe and effective, you can look forward to escaping from the drudgery of daily life and regaining the coveted youthful glow. Located island-wide, the six outlets of Theresa Beauty bring organic beauty to the neighbourhood and you can look forward to a whole new you with their expert care.

Offer I*
1st trial promotion:
(a) 1 x Complimentary Clarifying Facial Treatment (U.P $198)
(b) $38 for Aroma Therapy Massage (U.P $198)
(c) $58 for Teeth Whitening Treatment (U.P $198)

Offer II*
(a) Buy 1 for 1 Organic Juice (6 bottles x 1L) at $298 (U.P $594)
(b) Birthday treats: 2-Hour Cleopatra’s Indulgence @ $58 (U.P $878) includes:
- Organic Swiss Chocolate Spa Facial with mask (45 min)
- Honey Body Scrub (35 min)
- Lymphatic Drainage Massage (40 min)

Urban Homme  
www.urbanhommeformen.com

Urban Homme is one of Singapore’s first lifestyle and wellness service providers tailored specifically for men, providing premium beauty, slimming and spa services. To date, Urban Homme has five studios located island-wide.

Offer I*: For new members sign-up:
Receive $150 service credits redeemable on ala-carte facial / weight management service(s) or selected regular packages(s)

Offer II*: For existing members:
(a) $58 for Intensive Weight Vaporiser / Anti-Aging Treatment Facial / Aromatherapy Body Massage (45min | U.P $145)

(b) $388 for 1 Set of Experience the most advanced and complete MU Essential Hydrating Series (U.P $452) which includes MU Essential Facial Wash, Refining Lotion, Moisturizer and All-day UV Defence Mist Spray

Offer III*: Birthday month:
Complimentary Treats (30min | worth $88): Express Deep Cleansing Facial / Body Sculpting Wrap and Detox Sauna / Tension Relief Back Massage

Sea Scent  
https://www.facebook.com/seascentsrestaurant

Sea Scent is an Adriatic, blue and white restaurant, which offers a magnificent view of Keppel Harbourfront and the lush greenery of Labrador Park. Indulge in the exceptional all-day poolside al fresco dining in a perfect location to relax and unwind as Sea Scent’s experienced chefs whipped up delectable local and international favourites.

Operated by CJS Catering Pte Ltd, a well-established company in Singapore’s F&B industry which specialises in large-scale corporate, governmental and school events, Sea Scent is the perfect choice to host your next special event and create fond memories.

10% off for total bill“

NTU Chinese Medicine Clinic  
www.ntutcm.com

NTU Chinese Medicine Clinic is a leading clinic with a team of proficient and bilingual physicians who are leaders in integrative medicine. The well qualified physicians coupled with modern equipment ensure quality care for patients. The pleasant waiting area and consultation rooms provide an added level of comfort for visitors and patients. The clinic treats a wide spectrum of ailments such as internal medicine, fertility, men’s and women’s health, skin conditions, skin conditions cancer management and children health.

The clinic also offers consultation, acupuncture, cupping, tuina treatment massage for adults and children, wellness massage and herbal medication. One of the best TCM teaching clinics in Singapore, the clinic offers the double degree programme in Biomedical Sciences and Chinese Medicine in NTU.

15% discount off consultation fees, medicine and acupuncture

Yummi House  
www.yummihouse.com

Yummi House is a Singapore-based company specialising in unprocessed wild honey and premium handpicked bird’s nest. Yummi house is dedicated to research and development, to source the best and most natural health products from the most primitive environments for our consumers. The bird’s nest and honey do not go through any chemical process and have no artificial sweeteners, colourings and preservatives. Yummi House also won the Singapore Prestige Brand Award in 2010 for the most promising brand.

Offer I*: Enjoy 20% off on all Natural Wild Honey Products

Offer II*: Receive a complementary glass of freshly made Natural Wild Honey Drink (worth $9.90)

* Terms and conditions apply. Visit www.ntu.edu.sg/Alumni/AlumniCard for more details.
MR DOMINIC CHAN (MPE/2004)

I graduated from NTU with a Bachelor in Engineering (Mechanical & Production) in 2004, specialising in Aeronautical Engineering in my final year.

NTU has provided me with a solid foundation and lifelong skills in Engineering. I started out my career as a junior engineer in Singapore International Airlines (SIA) Engineering Company. The aircraft structural knowledge I gained in NTU was immediately put into good use when designing airframe repairs. This expedited my integration into the workforce to face the pressure from airlines in ensuring that tight flying schedules are met, while ensuring that the aircrafts are safe for operations.

Currently, I am an Engineering Manager in AAR, a leading aviation company based in USA. I lead a team of dedicated engineers, including many NTU alumni, who design the interiors of commercial aircrafts. The niche field of aircraft interior design, including the seating layout and various furnishings, requires a smooth balance of a safe and functional engineering design which complements the stringent aviation regulations as well as the aesthetics to appeal to stakeholders.

Despite a challenging work schedule, I do find time to give back to the community. I enjoy spending my time meaningfully with old folks and mentally challenged friends from Movement for the Intellectually Disabled of Singapore. They keep me grounded as I gain better perspectives of life.

With the stringent aviation regulations as well as the aesthetics to appeal to stakeholders.

MR LIM DEQIANG (MAE/2010)

NTU means a lot to my wife and I as this is the place where we first met in 2006. We started chatting with each other during a welcome tea session held by Cultural Activities Club and...as they say, the rest is history!

As a symbolic place, NTU is a meaningful choice for our wedding photo shoot. The location in NTU that is most special to us is the grass roof top on the School of Art, Design and Media building where we had our first Valentine’s Day date with a picnic.

My memorable moments in NTU include sitting for examinations in the large and cold Nanyang Auditorium, queuing up for the ‘Exam Welfare Packs’ given out by the School of Mechanical and Aerospace Engineering, buying tea and coffee and enjoying the $2.20 grilled chicken chops from the old Canteen A (below Lee Wee Nam Library). The iconic long queue for bus number 179 at Boon Lay MRT every morning is another nostalgic moment! The surprise notes we used to slip into each other’s lockers add on to those sweet memories too.

NTU provides a conducive learning environment and has given undergraduates many opportunities to be exposed to various co-curricular activities. It provides us with an all-rounded education as well as life skills that benefit us after graduation.

I am now a Project Engineer in the Oil & Gas Industry. I enjoy playing tennis, photography and travelling around the world. My fiancée, Junie, is a Traditional Chinese Medicine Physician in a Voluntary & Welfare Organisation. We love to travel and experience new places and cultures together.

We are glad to share with fellow alumni that we are getting married in October this year!
MR JENSEN SIAW (WKWSCI/2007)

My Master of Mass Communication programme at WKWSCI formed part of my seven years part-time studies period. NTU has given me an enjoyable and fruitful experience with strong bonds formed between classmates and lecturers. Professors like Eddie Kuo and Mark Cenite shared very insightful perspectives on their specialisations. My classmates were professionals across industries who added practical value to our class discussions with their valuable experience and professional expertise.

The support and encouragement from one another eliminated the fatigue from a day’s work. We transformed from managers in the day to learners in the evening, and subsequently to leaders in our professions. One of the highlights included driving out for supper after class on Friday evenings. Our international classmates joined us for local suppers too!

Passionate about life and people, I left my corporate managerial position to be an entrepreneur in my twenties. I spent years experiencing and studying Human Behaviour and Performance Psychology from psychologists and peak performance experts around the world.

I am now an international motivational speaker and performance coach. Since a decade ago, I have empowered many corporate leaders, executives, sales professionals, medical practitioners, law enforcers, educators and performing artists to improve their performance and results. I travel out of Singapore for work most of the time, to Malaysia, Indonesia, Philippines, Hong Kong, China and as far as France. My clients include professionals of Fortune 500 companies and Multinational Corporations such as Coca-Cola, 3M, McAfee, Rolls Royce, Roche, Dairy Farm Group, AIA, Prudential, AXA, Standard Chartered, Deutsche Bank and OCBC. English and Chinese media have also invited me to share my insights.

I have also authored 2 books, “Change Your Inner Cards, Win The Outer Game” and “7 Days to a New Goal”. My expertise and experience coaching thousands of youths and professionals over the years to become happier and successful have been consolidated in, “Change Your Inner Cards, Win The Outer Game”, which will be published in the third quarter of 2016.

A father to a 4-year-old son and 3-year-old daughter, I love to spend time with my family. My understanding on positive and performance psychology enables me to focus more on the emotional well-being of my kids. Many have found me to be a non-conventional parent. My parenting motto is, “Happy kids are healthy kids who will be successful individuals.”

MS ROCHELLE M. RAZO (ENGLISH EXECUTIVE PROGRAMME/2008)

I consider enrolling in the Leadership in Education Programme International (LEPI) at the National Institute of Education (NIE) in NTU as one of the best decisions I made in my life. It was a life-changing two-week course which provided me with rich and meaningful learning and immeasurable benefits that I enjoy up to now, eight years after the course.

Learning with knowledgeable and caring school leaders from different countries around the world has widened my perspective about education and encouraged me to deeply reflect on my role as a leader. I met and connected with like-minded individuals who have walked the talk and have supported me in my work to find effective ways of bringing our school forward. This global network of professionals who have become my close friends now has greatly inspired me to do my best to effect positive changes in our school and in our community.

Because of the education provided to me at NTU, I have become more knowledgeable about the macro and micro issues in education. The international experience made me up to date in the trends and approaches in my field. It has made me realise more the importance of my role in the achievement of our mission and realisation of our vision as an organisation. It has made me more focused, determined, and steadfast in my purpose.

I love to read and attend conferences in education to enrich my knowledge and skills. As an educator, I believe we have to be passionate life-long learners and serve as good role models to our students. I try to be fit by eating healthy foods and exercising regularly. I immensely enjoy the company of my family, friends and students. And I cherish memories with them especially when we go on meaningful trips such as when we toured NTU in April.

I am honoured to be part of the NTU Alumni Association (Philippines) and I hope to have more opportunities to give back to the institution which has given me and my school much to be grateful for. I look forward to working with the other NTU alumni and multiply even further the advantages of being graduates of an institute of distinction.
At NTU, we treasure our relationship with alumni! Do provide Alumni Affairs Office your latest contact details and stay connected!

Full Name as in NRIC
(Mr/ Ms/ Dr/ Prof/ Others)

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If you receive duplicate copies of NTULink, or know of fellow alumni who are not receiving the magazine, please call us at +65 6513 8073 or email us at alumniaffairs@ntu.edu.sg.

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I hereby authorise, agree and consent to allow Nanyang Technological University (NTU) and its employees and agents (collectively “NTU”) and NTU’s third party service providers to:

(a) collect, use, disclose and/or process personal data about me that I had previously provided NTU, that I now provide NTU, that I may in future provide NTU with and/or that NTU possesses about me including but not limited to my name, my identification number, my telephone numbers, my address, for the following purposes:

- To maintain a lifelong relationship with its alumni;
To create awareness and promote alumni relations;
To understand and study the profile of its alumni community for NTU’s policy making and planning;
To involve alumni in NTU’s continual development and progress through the engagement of voluntary services and giving back to their alma mater;
To assist ministries and government agencies in the development of national policies and guidelines through the sharing of necessary data.

(b) send me such alumni-related marketing, advertising and promotional information through the following modes of communication:

(i) postal mail and/or electronic transmission to my email address; and
(ii) to my following telephone number(s) : ____________________ by way of :
(1) [ ] Voice call / Phone call
(2) [ ] SMS/MMS (text messages)
(3) [ ] Fax

Please indicate that you agree to NTU and its employees, agents and third party service providers using that mode of communication by inserting a √ in the box.

I hereby represent and warrant that I am the user and/or subscriber of the telephone number(s) provided by me above, and that I have read and understood the above provisions.

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Signature/Date

Note: Regardless that you do not sign or complete this form, please note that the NTU reserves its right to send a specified fax message (as defined in the Personal Data Protection (Exemption from Section 43) Order 2013) (the “Exemption Order”) and/or a specified text message (as defined in the Exemption Order) (i.e. a marketing fax message or marketing text message) to your Singapore telephone number, if there is an ongoing relationship between the NTU and you and the purpose of the message is related to the subject of the ongoing relationship, pursuant to the requirements and conditions of the Exemption Order.

EVENTS CALENDAR

JUNE — AUGUST 2016

- NTU Alumni Movie Screening – ‘Star Trek Beyond’
- NTU Alumni 2D1N Tour to Malaysia with Durian Feast
- 39th Distinguished Alumni Forum – Effective Social Media Strategies
- Class of 1976 – 1980 Alumni Reunion Celebration
- NTU Alumni Sports Fiesta 2016

Information is correct as of press time. Events and dates may be subject to change. For an updated list of upcoming events, please visit www.ntu.edu.sg/alumni/alumnievents. If you wish to enquire about any of the events, please email to alumniaffairs@ntu.edu.sg.
BE IN A Class of Your Own

MEMBERSHIP A PART OF IT

ONE CARD TO ENJOY THEM ALL
- Sports, Health & Wellness
- Wine & Dine
- Events & Entertainment
- Activities for All Ages
- Privileged Shopping & Hotel Stays
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MGM Scheme
Enjoy our member-get-member scheme by introducing a friend to become a member now and choose your favorite reward!

REWARDS
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- Spa Treatments
- Lifestyle Products
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Hotline: 6777 1101 / 9150 0905
membership@ntualumni.org.sg
www.ntualumni.org.sg/membership

https://www.facebook.com/NtuacEvents
**ALUMNI ASSOCIATION LISTING**

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