Year at a Glance
Navigating Knowledge, Steering Discoveries
July 2017 - June 2018
Electronic Resources
Engagement
Services

About

Nanyang Technological University (NTU) Library

NTU Library provides seamless access to Information, Knowledge and Library services which support the learning, teaching and research needs of users from Nanyang Technological University Singapore. It comprises seven subject libraries managed by the Office of Information, Knowledge and Library Services. As a hub that engages users and connects with their interests, it sets out to be a testbed for new ideas, concepts, innovation and technologies.

Office of Information, Knowledge and Library Services (OIKLS)

The Office of Information, Knowledge and Library Services (OIKLS) was established in October 2016 to evolve the NTU Library to strengthen the University’s development, integration and archival of learning resources, research data and user-generated content repositories, and knowledge portals to support teaching, research and residential education.

OIKLS is organised by four main areas:

1. Information (Information Systems & Resource)
2. Knowledge (Learning & Research)
3. Library (User Services & Engagement)
4. Administration (Administration, Communication & Development)

We are guided by four strategic thrusts:

1. Empowering Physical Spaces
2. Enhancing Digital Scholarship & Research Dissemination
3. Cultivating Effective Knowledge Management & Sharing in NTU
4. Fostering External Collaboration to Extend Impact of Library & NTU

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Empowering Physical Spaces

Visitorship to libraries

Lee Wee Nam Library (LWNL) is NTU's flagship library and records the highest visitorship yearly. It is named in recognition of a generous donation by the family of the late Mr Lee Wee Nam. Lee Wee Nam Library underwent a revamp in August 2017 to offer a variety of spaces to suit the various needs of its users. The new spaces at Lee Wee Nam Library include:

- Events Space – Open setting for talks and events with amphitheatre style seating.
- Exhibition Space – Spacious areas to share and showcase research and projects.
- Collaboration booths & Learning pods – Working areas for various group sizes to come together for discussions and for individuals to do their work in a conducive environment.
- PC Stations – Computers with single and multi-screen monitor options for individual and group use.
- Digital Screens – Various display screens to publicize resources, services and events.

NTU Library converted the Library Outpost at the Hive to be the first library space that operates 24 hours, 7 days a week, for access by NTU staff and students from January 2018.

Over 1.6 million visits

<table>
<thead>
<tr>
<th>Library Type</th>
<th>Total Visits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lee Wee Nam Library</td>
<td>1,030,988</td>
</tr>
<tr>
<td>Art, Design &amp; Media Library</td>
<td>174,530</td>
</tr>
<tr>
<td>Business Library</td>
<td>73,324</td>
</tr>
<tr>
<td>Communication &amp; Information Library</td>
<td>29,695</td>
</tr>
<tr>
<td>Chinese Library</td>
<td>151,454</td>
</tr>
<tr>
<td>Humanities &amp; Social Sciences Library</td>
<td>49,781</td>
</tr>
<tr>
<td>Library Outpost</td>
<td>109,172</td>
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</table>
Empowering Physical Spaces

Learning Spaces

The names of spaces at Lee Wee Nam Library were inspired by the science fiction genre; each name embodies either a science fiction author, character or place. These names were chosen to invoke curiosity, sense of discovery and to reflect the functionality of the various spaces.

Event Spaces

77
Total bookings

Stargate
Ender
Watney

Trantor
Huxibit

Computer Facilities

47,986
Total bookings

Multi-screen Monitors
Arrakis

Collaborative Spaces

36,957
Total bookings

Lee Wee Nam Library (Learning Pods)
Atwood
Le Guin
Butler

Tiptree
Wilhelm
Griffin
Business Library (Discussion pods)

Media Facilities

5,382
Total bookings

Cinema Room
Viewing Corner
Language Learning Rooms
Media Stations

Group Viewing Stations
Recording Room
Tardis
Enhancing Digital Scholarship and Research Dissemination

In the past year, NTU Library implemented many new initiatives and achieved milestones to provide more in-depth information and knowledge services to NTU faculty and researchers.

A team was established to explore new trends in scholarly publishing. The team collaborated with faculty to host and publish two peer-reviewed open access journals and will be introducing new features such as DOI minting and altmetrics to increase the discoverability of the research articles.

The team also collaborated closely with researchers to build interactive websites and apply digital humanities and data visualisation tools in their research projects. One major project is “Site & Space in Southeast Asia”, which is funded by the Getty Foundation and includes researchers from the National Gallery Singapore, NTU and several other universities.

As part of the 10th International Open Access Week, the Library organised a panel discussion titled “Raising your Research visibility with Open Research Data” on 24 Oct 2017. About 200 participants attended the event. Six NTU and NIE speakers from different disciplines captivated the audience with their varied data sharing experiences. Ms Goh Su Nee from the Library facilitated a lively panel discussion.

The NTU research data repository, DR-NTU (Data), was launched by the then NTU President Professor Bertil Andersson on 8 November 2017. More than 240 NTU researchers and staff witnessed ‘magical touches’ by Professor Andersson, Professor Schubert Foo, Deputy Associate Provost (Information & Knowledge) and Professor Michael Khor, Director, Research Support Office and Bibliometrics Analysis, President’s Office on 3 touch lamps to kickstart the launch ceremony.

About 150 NTU researchers participated in a data curation seminar and two workshops in early March 2018 to learn more about the use of the newly launched NTU data repository, DR-NTU (Data), which is implemented using Harvard Dataverse software. Dataverse trainers from Harvard University shared about best practices and assisted participants with their data curation questions.

Monthly Data Management Plan (DMP) writing workshops were conducted for principal investigators and their research team members who needed more help in the writing of their DMPs. About 130 participants attended the 12 workshops conducted in the year.

NTU Research and Digital Publishing
In November 2017 and March 2018, a new series of 16 Digital Scholarship workshops and seminars were launched to cover a range of digital skills and techniques such as:

- Cleaning Data with OpenRefine
- Visualising Time - Beyond the Line Chart
- Mapping your Research Data with GIS
- Design Tips for your Poster

Some of these workshops are now incorporated into course tutorials and the Undergraduate Research Experience on Campus (URECA) programme.
Research Dissemination

DR-NTU (Data)

The NTU research data repository DR-NTU (Data) was launched on 8 November 2017. NTU research data creators can now deposit, archive and share their final research data on this central platform. Data depositors get to choose from several options on this web interface to maximise the discoverability of their datasets. Each dataset is automatically assigned a persistent identifier, a Digital Object Identifier (DOI), which ensures perpetuity and facilitates sharing and citation. By default, deposited data stays private to only the depositor. Depositors are encouraged to publish their datasets when they do not have data sharing restrictions. Published datasets help to boost research visibility, including drawing attention to related publications.

Benefits of archiving your data in DR-NTU (Data)

- 1,339 Downloads
- 100 Published Datasets

Figures relate to published data from 8 November 2017 to 30 June 2018

1. Published datasets excludes many more unpublished datasets. A dataset refers to a set of data files that share a metadata record and terms of reuse.
DR-NTU (Open Access)

As the University’s institutional repository, DR-NTU (Open Access) captures, stores, and preserves the journal articles, conference papers, theses and dissertations (PhD and Masters by Research only) of NTU staff and students. Free access is granted to the public to view the full text.

Views and downloads in 2017 and 2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Downloads</th>
<th>Views</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>300,401</td>
<td>476,977</td>
</tr>
<tr>
<td>2018</td>
<td>1,094,609</td>
<td>2,379,507</td>
</tr>
<tr>
<td>Total</td>
<td>1,395,000</td>
<td>2,856,484</td>
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Total records in 2017 and 2018

<table>
<thead>
<tr>
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<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>152,327</td>
</tr>
<tr>
<td>2018</td>
<td>253,427</td>
</tr>
<tr>
<td>Total</td>
<td>405,754</td>
</tr>
</tbody>
</table>

DR-NTU (Restricted Access)

The repository contains restricted access collections which are accessible only to the NTU Community. User authentication is required to view the full text. The categories of publications in our repository include, Research Reports, Student Reports, Theses and Dissertations (Masters by Coursework Programmes only).

Views and downloads in 2017 and 2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Downloads</th>
<th>Views</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>1,009,351</td>
<td>2,693,307</td>
</tr>
<tr>
<td>2018</td>
<td>409,464</td>
<td>1,485,456</td>
</tr>
<tr>
<td>Total</td>
<td>1,418,815</td>
<td>4,178,763</td>
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</table>

Total records in 2017 and 2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>46,741</td>
</tr>
<tr>
<td>2018</td>
<td>49,987</td>
</tr>
<tr>
<td>Total</td>
<td>96,728</td>
</tr>
</tbody>
</table>
Enhancing Digital Scholarship and Research Dissemination

Top downloaded papers from NTU’s four Colleges in DR-NTU (July 2017 - June 2018)

Nanyang Business School (College of Business)

Professional career aspiration and professionalism among university students: A challenge of professional development in the 21st century

3,487 Downloads

Author:
C. Qinghui
Title:
Professional career aspiration and professionalism among university students: A challenge of professional development in the 21st century

College of Engineering

3D printed microfluidics for biological applications

1,839 Downloads

Author:
Guo, Z. & Yang, Z.
Title:
3D printed microfluidics for biological applications

College of Humanities, Arts and Social Sciences

Art and design pedagogy for tomorrow’s lifelong learners

3,612 Downloads

Author:
Put, J. & Zayas
Title:
Art and design pedagogy for tomorrow’s lifelong learners

College of Science

Small-size effects on Electron Transfer in P3HT/InP Quantum Dots

2,018 Downloads

Author:
M. S. Lee, J. H. Kang, and C. J. Hong
Title:
Small-size effects on Electron Transfer in P3HT/InP Quantum Dots

Enhancing Digital Scholarship and Research Dissemination
Cultivating Effective Knowledge Management and Sharing in NTU

NTU librarians attend conferences overseas so as to keep up with emerging trends, gain new knowledge, present research findings, network with other professionals and learn from experts.

List of Conferences attended

<table>
<thead>
<tr>
<th>Date of Events</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Jul 2017</td>
<td>Elsevier Southeast Asia eBooks Forum 2017 – Connecting the Dots: Reshaping the Library to Enhance Research Output (Thailand)</td>
</tr>
<tr>
<td>30 Oct to 3 Nov 2017</td>
<td>5th Workshop: International Joint Research and Training Program for Nation’s Memory and Archives Management 2017 (Taiwan)</td>
</tr>
<tr>
<td>19 to 21 Nov 2017</td>
<td>Libraries of the Australian Technology Network of Universities Annual Workshop 2017 (Australia)</td>
</tr>
<tr>
<td>4 to 6 Dec 2017</td>
<td>Asia OA Meeting 2017: Moving to Higher Ground – from Open Access to Open Science in Asia (Nepal)</td>
</tr>
<tr>
<td>7 to 8 Dec 2017</td>
<td>&quot;Survival of the Fittest! How can iProfessionals survive and thrive in this fast-changing and data-intensive world&quot; by iSchool Asia-Pacific Chapter &amp; the University of Hong Kong Data Science Winter Institute 2017 (Hong Kong)</td>
</tr>
<tr>
<td>1 to 3 Feb 2018</td>
<td>International Conference on Reshaping Libraries: Emerging Global Technologies and Trends 2018 (India)</td>
</tr>
<tr>
<td>13 to 15 Feb 2018</td>
<td>Victorian Association for Library Automation 2018 (Australia)</td>
</tr>
<tr>
<td>19 to 22 Feb 2018</td>
<td>13th International Digital Curation Conference (Spain)</td>
</tr>
<tr>
<td>12 to 14 Mar 2018</td>
<td>Open Science Conference 2018 (Germany)</td>
</tr>
<tr>
<td>21 to 23 Mar 2018</td>
<td>Research Data Access &amp; Prevention (RDAP) Summit 2018 (USA)</td>
</tr>
<tr>
<td>10 to 13 Apr 2018</td>
<td>Sydney Digital Humanities Research Group Seminar and Workshop Series (Australia)</td>
</tr>
<tr>
<td>5 to 16 Jun 2018</td>
<td>Advanced Topics in Digital Art History: 3D and (Geo)spatial Networks Summer Institute at Venice International University (Italy)</td>
</tr>
</tbody>
</table>
Compliments and Bouquets

It feels great to study and also relax, all in one location.

Muhammad Haikal Bin Mohd Sallehen
Year 4 Undergraduate
School of Biological Sciences

NTU Library provides more than just books. I think of NTU Library as a community hub for students and faculty members to obtain services and materials for their learning and research needs.

Daniel Cheong
BA (Hons) in Psychology
Class of 2018

I always tell my students that we have an outstanding library!

Assoc Prof Hooi Den Huan
Division of Marketing and International Business
College of Business (Nanyang Business School)

I used to just go into Google and sift through all the pages of searches to look for information. But with NTU Library’s OneSearch, the librarians taught us how to narrow down our search options to find best possible topics and the most recent papers so it will make our entire literature review process faster and also more efficient.

Felicia Widodo
Year 3 Undergraduate
School of Social Sciences

Libraries to me are like a refuge, they are my sanctuary. Whenever I need to take a break, I need to clear my head, I need to feel inspired, I head to the libraries. I’ve been to all libraries in the campus, because I just think all of them are wonderful spaces. The staff are super helpful. Whenever, I come across a book recommendation on Twitter or LinkedIn or anywhere on the web, I will manage to find it in the NTU Libraries, which I think is an absolutely amazing thing for a research student. The library really shaped how I have done my research and played a huge role in my stay at NTU.

Shilpa Madan
PhD candidate
Nanyang Business School

I decided to collaborate with NTU Library, especially with NTU Blogs because I wanted to make my course more relevant and make it more interactive in delivering some of the content to the students in ways more aligned with current times of developing multimedia and interacting with students in a non-standard set-up. I strongly recommend the use of NTU Library Blogs for any course if you want to try something different for your teaching.

Asst Prof Felipe Garcia
Assistant Professor
School of Physical and Mathematical Sciences

NTU Library staff has been recognised for their distinguished services. The inaugural Student and Academic Services (SAS) Silver Services Excellence Award was given to Anandarajan Lakshmi from Technologies Team.

During the 2017 National Day Awards, The Commendation Medal was awarded to Chia Yew Boon from the Digital Scholarship Team and Goh Su Nee from the Research Data Management Team.

NTU Library staff honoured for their long service and dedication to the University.
Fostering External Collaboration to Extend Impact of Library & NTU

NTU Library keeps abreast of the changing trends in academia and librarianship by engaging in regular professional dialogues and sharing of knowledge with other academic libraries and participating in joint projects such as the sharing of information literary strategies and data management policies.

The library also maintains professional memberships with various local and international library associations.

Professional Association

Singapore
1. Council of Chief Librarians (CCL) (Singapore) Chair from 2016 to 2018
2. Library Association of Singapore (LAS)

International
1. American Library Association (ALA)
2. ASEAN University Network Inter-Library Online (AUNILO)
3. International Association of University Libraries (IATUL)
4. Libraries of the Australian Technology Network (LATN)
5. Pacific Rim Research Libraries Alliance (PRRLA)
In 2018, Nanyang Technological University Singapore was placed 12th globally in the Quacquarelli Symonds (QS) World University Rankings. It was also ranked the world’s best young university (under 50 years old) by QS for the fifth consecutive year. In addition, NTU was named the world’s fastest rising young university by Times Higher Education in 2015.

Mirroring NTU’s meteoric rise in its international academic reputation, NTU Library strives to extend the impact of the library and the university to a global level. The library takes great pride in hosting customised tours for local and international librarians, faculty members, administrators, students and public visitors to our seven libraries. These tours are accompanied by sharing sessions on the practices, services, technologies and facilities of the library to communicate our impact on learning and contributions to institutional strategic goals.
Highlights

Electronic Resources

Science, Technology, Engineering and Medicine

- American Chemical Society: 276,956
- Nature: 213,757
- Wiley: 201,938
- Royal Society of Chemistry: 155,846
- IEEE: 126,486

Humanities, Arts and Social Sciences

- JSTOR: 89,890
- Wanfang Data: 58,171
- Taylor and Francis: 56,999
- Factiva: 33,041
- Sage Journals: 32,442
**Engagement**

- **Facebook**
  - Reach: 7,392
  - Total Followers: 195,291

- **Outreach Activities**
  - Total Attendees: 2,647
  - Talks: 635
  - Events: 748
  - Freshmen Orientation: 1,264

**Services**

- **Instructional Programmes**
  - Workshops: 518
  - Participants: 11,242
  - Training Hours: 720

- **Collections**
  - Loans: 173,355
  - Inter-library Loans and Document Delivery: 689

- **Channels of Enquiries**
  - Face-to-face: 5,070
  - FAQ: 1,614
  - Email: 1,417
  - Phone: 429
  - WhatsApp: 96