

## List of IC@N Research Projects and Supervisors

<b>School of Humanities</b>	
<b>Name of Supervisor</b>	<b>Research Project Description</b>
<b>Assistant Prof Tapsi Mathur</b> <a href="mailto:tapsi.mathur@ntu.edu.sg">tapsi.mathur@ntu.edu.sg</a>	<b>History of Science and Technology in Modern South Asia</b>  (Undergraduate and Postgraduate Level) This project is part of a global conversation on empire and colonization and its impact on native knowledges that come to be invisibilized from narratives of scientific progress largely attributed to "the West". I pay particular attention of power and authority under colonial rule that are often lost in understanding science as being constituted and circulating easily in a hybrid, global culture. I am interested in working with students researching science and technologies in colonial India, especially in relation to geography and cartography. Project Duration: 2 - 5 months (Jan - Jun period and Aug - Dec period)
<b>Asst Prof Jessica Hinchy</b> <a href="mailto:jhinchy@ntu.edu.sg">jhinchy@ntu.edu.sg</a>	<b>The social history of South Asian communities in Singapore and Malaysia</b>  (Postgraduate Level) Using archival materials held in Singaporean repositories, This project will explore the history of South Asian communities in the region. Possible themes include histories of migration, identity, gender, family, sexuality, and caste. Student projects should draw (at least in part) upon locally available archival materials. Project Duration: 2 - 5 months (Preferred Aug- Dec period or Jan - Jun period as the 2nd preference)
<b>Assoc Prof Alexander Coupe</b> <a href="mailto:arcoupe@ntu.edu.sg">arcoupe@ntu.edu.sg</a>	<b>Documentation. description and typology of the minority languages of India</b>  (Postgraduate Level) Graduate students will join the NTU Language Documentation Lab, where they will be trained in current methods of language documentation and description while receiving feedback and guidance on their MA and PhD research projects. See <a href="https://www.ntulangdoc.com">https://www.ntulangdoc.com</a>  Project Duration: 5 months (Preferred Jan - Jun period)
<b>Assoc Prof Andrea Nanetti</b> <a href="mailto:andrea.nanetti@ntu.edu.sg">andrea.nanetti@ntu.edu.sg</a>	<b>Pre-modern India in Fra Mauro's World Map</b>  (Postgraduate Level) Identification, study and link to Indian archaeological evidence and secondary literature of the geographical and historical

	<p>information about India available in the map of the world completed by Fra Mauro in Venice in August 1460. For more information <a href="https://engineeringhistoricalmemory.com/FraMauro.php">https://engineeringhistoricalmemory.com/FraMauro.php</a> refers to <a href="https://engineeringhistoricalmemory.com/FraMauro.php">https://engineeringhistoricalmemory.com/FraMauro.php</a></p> <p>Project Duration: 5 months (Preferred Jan - Jun period)</p>
<p><b>Asst Prof Michael Stanley-Baker</b>  <a href="mailto:msb@ntu.edu.sg">msb@ntu.edu.sg</a></p>	<p><b>Polylot Medicine in Maritime Southeast Asia: A Digital Humanities Project</b></p> <p>(Postgraduate Level)</p> <p>Develop digital architecture to host, search and link Chinese and Malay medical manuscripts. Includes an online website to connect traditional medical knowledge across different languages. Skills required include sql database, web-scraping, web-design, regex, python, serving bibliographic data (Zotero, endnote).</p> <p>For a project synopsis, <a href="https://tinyurl.com/yymc7qzz">https://tinyurl.com/yymc7qzz</a></p> <p>Project Duration: 5 months (Preferred Jan - Jun period)</p>
<p><b>Assoc Prof Hallam Stevens</b>  <a href="mailto:hstevens@ntu.edu.sg">hstevens@ntu.edu.sg</a></p>	<p><b>History of biomedicine and biotechnology</b></p> <p>(Postgraduate Level)</p> <p>Students will collaborate with the faculty member on projects related to the history of biomedicine or biotechnology in Asia. This may include a focus on South Asia, East Asia, or Southeast Asia.</p> <p>Project Duration: 2 - 5 months</p>
<p><b>Dr Perono Cacciafoco</b>  <b>Francesco</b>  <a href="mailto:fcacciafoco@ntu.edu.sg">fcacciafoco@ntu.edu.sg</a></p>	<p><b>Deciphering through Cryptanalysis: A "Brute Force Attack" to an Undeciphered Writing System</b></p> <p>(Preferably Postgraduate Level but Undergraduate Level also can)</p> <p>The project aims at developing a cryptanalytic "brute force attack" on the undeciphered Linear A Aegean writing system, dating back to the Bronze Age and "hiding" the so-called unknown Minoan language. The project is aimed at the development of advanced elements of a software to accomplish the first complete cryptanalytic attack on the Linear A writing system, possibly reconstructing the Minoan phonetics and phonology and isolating significant clusters of symbols. That would lead to the decipherment of the undeciphered Aegean writing system. The advanced elements of the developed software would have to be written using the Python</p>

Programming Language. The pioneering Research associates Crypto-Linguistics, Historical Linguistics, and Language Deciphering with Digital Humanities and Computer Science.

Pre-requisites: Python Programming Language (intermediate knowledge); Website Development (elementary knowledge)

Project Duration: 5 months (Jan - Jun period or Aug - Dec period)

**The Abui Botanical Lexicon Online: Digital Humanities and Language Documentation Approaches Aimed at Safeguarding an Endangered Language from South-East Indonesia**

(Preferably postgraduate level but undergraduate level also can)

The Project aims at the collection, description, reconstruction, documentation, and safeguard of the names of medicinal plants in Abui (South-Eastern Indonesia, Timor area, Alor-Pantar archipelago, Alor Island) culture. Abui is a Papuan language spoken by Abui people in the central part of Alor island. The goal is to develop an Abui Dictionary (to be published online as an open-source Digital Database) of medicinal plants' names, reconstructing the etymologies of those phytonyms and the possibly related Abui stories and legends connected with them. Moreover, the project will analyze the different uses of medicinal plants in Alor with a focus on their real therapeutic properties and on the "mythological" features attributed to them by indigenous people. The Project associates Field Linguistics and Language Documentation with Cultural Anthropology, Etymology, and Botany.

Pre-requisites: Online Database Management (elementary level); Website Development (elementary level)

Project Duration: Jan - Jun period or Aug - Dec period