



THE UNIVERSITY OF  

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MELBOURNE

**Exchange study  
at the University of Melbourne**  
AOTULE Graduate Student Research Exchange  
1<sup>st</sup> Oct. – 30<sup>th</sup> Nov. 2018

School of Environment and Society  
Department of Transdisciplinary Science and Engineering  
Global Engineering for development Environment and Society

Takashi Hiraide

# 1. Introduction

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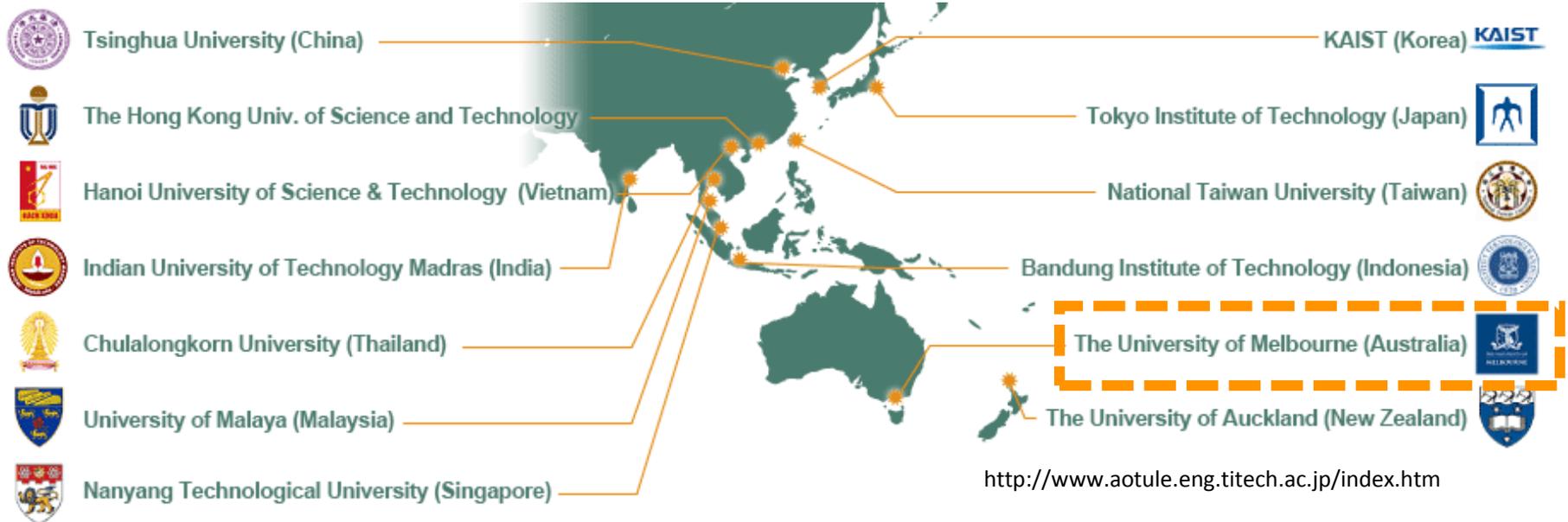
## **Four goals**

- Get knowledge about new research theme
- Communicate with people with various backgrounds
- Improve my English skills
- Survive in unfamiliar environment

# 2. AOTULE Graduate Research Exchange Program

## AOTULE Asia-Oceania Top University League on Engineering

promoting inter-university cooperation through joint programs  
including student exchange



### Attractive points of this program

- I spent my time mainly on my research interest.  
(not required to take courses during exchange period)
- Exchange period was quite flexible.
- Sufficient scholarship was given from this program.

# 3. Basic Information

## Melbourne, Australia

World's most livable city 2011-2017

Based on 30 factors spread across five area  
stability, infrastructure, education, health and environment  
[economist]



## The University of Melbourne

2<sup>nd</sup> oldest university in Australia (Founded in 1853)

World Rankings	The University of Melbourne	Tokyo Tech
THE	32	112
QS	39	57
ARWU	38	101-150

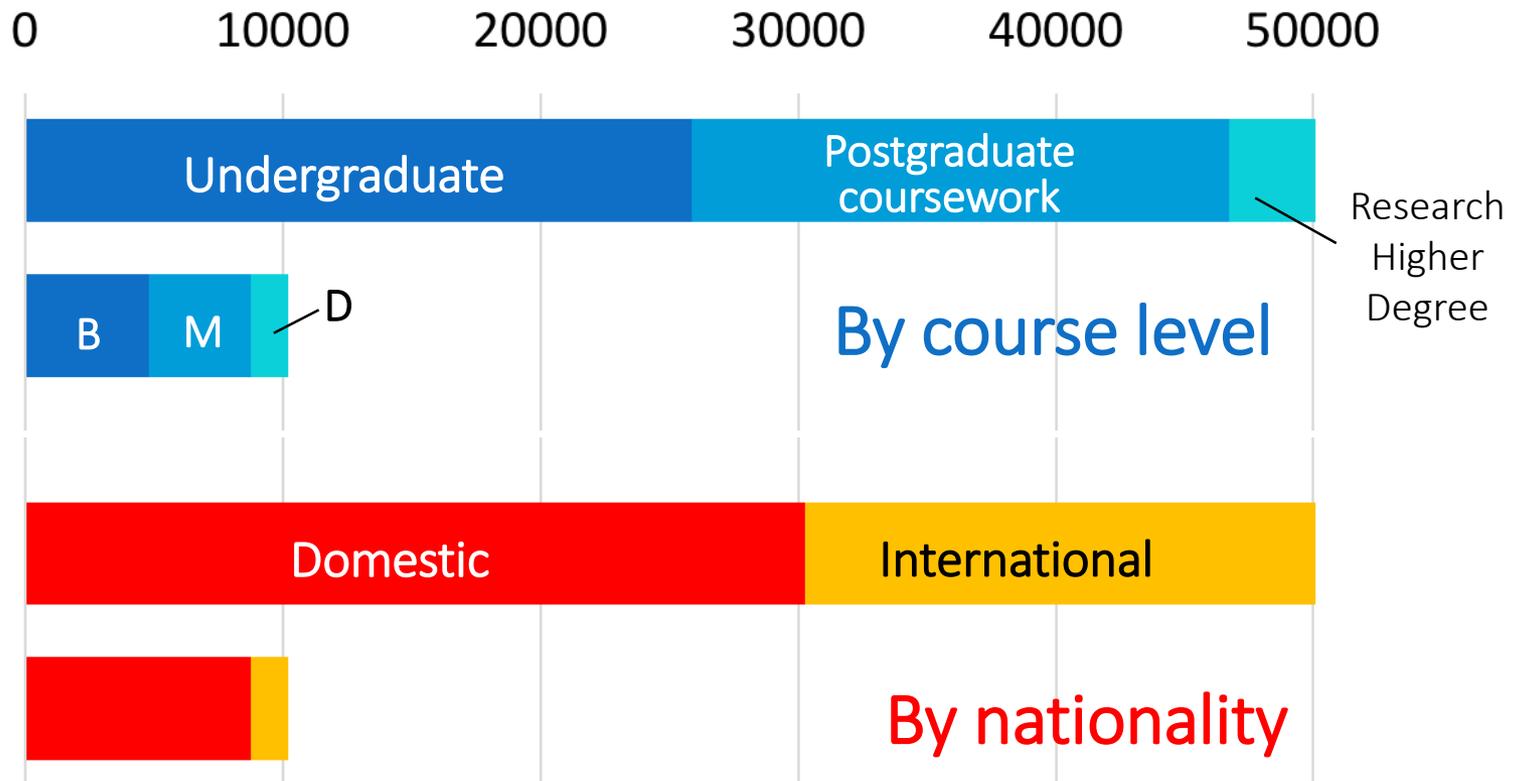


<https://www.unimelb.edu.au/>

- 4 Australian prime ministers & 5 governors are alumni.
- 9 Nobel laureates have been students or faculty.

# 3. Basic Information

## The Students Ratio of the University of Melbourne



# 3. Basic Information

## Department of Infrastructure Engineering

### Research fields

- Civil engineering
- Environmental engineering
- Geomatics



### Noteworthy points

- A research is conducted by a team which constitutes several Master students and Ph.D. students.
- Professors allocate projects to students under their supervision.
- There are some lectures delivered by Ph.D. students to all of the students and researchers in the Dept. for several times a week.

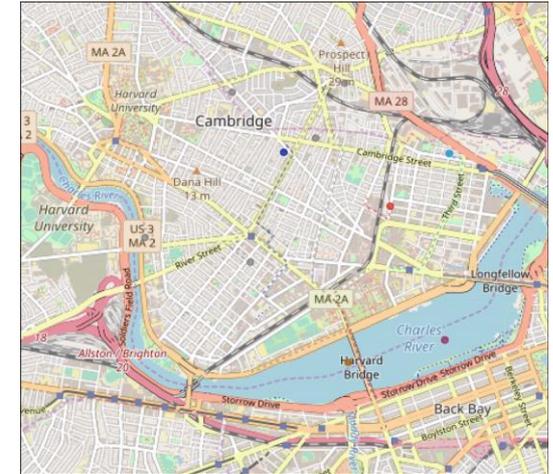
# 4. Study Summary

## Period

1<sup>st</sup> Oct. – 30<sup>th</sup> Nov. 2018 (Approx. 2 months)

## What I did...

- Having discussions with professors
- Reading their recommended papers and programming codes



J. Wen et al., 2018

## Prof. Russell Thompson

- Disaster Management
- Transport Engineering
- Transport Modelling
- Urban Freight



## Prof. Neema Nassir

Automated Vehicle Analytics  
Mobility Sensing and Prediction



## Prof. John Stone

- Public transport international comparative analysis
- Public transport planning and politics (public transport)



## Prof. Dave Ashmore

- Symbolism
- National culture
- Latent motivation
- Thematic analysis

Index of...

- Individualism vs Collectivism
- Power differential

etc.

# 4. Daily life -weekday-



Coffee machine



Studied at the libraries



Participated in the postgraduate conference



Enjoyed English teatime with Dep. members

# 5. Daily life -weekend-



Ran along the coast



Wall-paintings



Bought ingredients at local market



Watched a football game

# 6. Summary

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## **Newly gained perspectives**

### Tackling with new research theme

- Knowledge about new research methodology
- Various theme related to urban transport

### Communicating with people with various backgrounds

- This is normal at an overseas university and research institute

### Being in an unfamiliar environment

- Everything was new, but so comfortable for me!



**Thank you**