

TUAN DUNG (JOSH) NGUYEN

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<https://joshnguyen99.github.io>

EDUCATION

The Australian National University
Master of Philosophy – MPhil

March 2021 –
Canberra, ACT, Australia

The University of Melbourne
Bachelor of Science
Grade: First Class Honours
Major: Computing and Software Systems

February 2018 – December 2020
Melbourne, VIC, Australia

Foreign Languages Specialized School
High School Diploma

September 2014 – July 2017
Hanoi, Vietnam

EXPERIENCE

Summer Research Scholar
Computational Media Lab, The Australian National University

December 2020 – March 2021
Canberra, ACT, Australia

- Supervisor: Prof. Lexing Xie
- Project: *Analysing Real-world Moral Dilemmas from Online Discussions*

Tutor and Demonstrator
Melbourne School of Engineering

March 2020 – December 2020
Melbourne, VIC, Australia

- Subject: Elements of Data Processing (COMP20008)
- Plan and deliver weekly tutorials and lab sessions

Research Intern
The University of Sydney

July 2020 – August 2020
Sydney, NSW, Australia

- Supervisor: Dr. Nguyen Tran
- Part of the Winter Research Internship Program
- Project: *Personalized Federated Learning with Moreau Envelopes*

Summer Research Scholar
The University of Sydney Faculty of Engineering

December 2019 – February 2020
Sydney, NSW, Australia

- Supervisor: Dr. Nguyen Tran
- Part of the Summer Research Program
- Project: *Federated Learning with Stochastic Variance Reduced Gradient Algorithms*

Vacation Research Scholar
Melbourne School of Mathematics and Statistics

November 2019 – December 2019
Melbourne, VIC, Australia

- Supervisor: Dr. Charl Ras
- Part of the School of Mathematics and Statistics Vacation Research Program
- Project: *Analysing and Designing R-Resilient Graphs*

TECHNICAL SKILLS

Programming/Scripting Languages	C/C++, Python, Java, \LaTeX , MATLAB
Numerical and Learning Packages	PyTorch, TensorFlow, scikit-learn, numpy, pandas
Frameworks and Tools:	Git
Databases	MySQL

AWARDS AND ACHIEVEMENTS

- Master of Philosophy Scholarship Tuition and Stipend Scholarships, ANU (2021)
- Summer Research Scholarship, College of Engineering and Computer Science, ANU (2020)
- Dean's Honor List, UniMelb (2019 and 2020, top 1.5% of the BSc. cohort)
- Housing Bursary, UniMelb (2020)
- Research Scholarship, Faculty of Engineering, USyd (2020)
- Studentship, School of Mathematics and Statistics, UniMelb (2019)

LEADERSHIP EXPERIENCE

UniMelb Competitive Programming Club (UMCPC)	2019 – 2020
• Position: Secretary	
UniMelb Mathematics and Statistics Society (MUMS)	2019 – 2020
• Position: Undergraduate Representative	
UniMelb Internet of Things Club	2018 – 2020
• Positions: Marketing Director (2019) and Events Director (2020)	
UniMelb Student Union	2018 – 2020
• Host at the Orientation Week Program	
• Tutor at the VCE Summer School	

PUBLICATIONS

Canh T. Dinh, Nguyen H. Tran, and Tuan Dung Nguyen. 2020. Personalized Federated Learning with Moreau Envelopes. In *34th Conference on Neural Information Processing Systems*.

Canh T. Dinh, Nguyen H. Tran, Tuan Dung Nguyen, Wei Bao, Albert Y. Zomaya, and Bing B. Zhou. 2020. Federated Learning with Proximal Stochastic Variance Reduced Gradient Algorithms. In *49th International Conference on Parallel Processing - ICPP (ICPP '20)*, Edmonton, Canada.