TUAN DUNG (JOSH) NGUYEN

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EDUCATION

The Australian National University — March 2021 –
Master of Philosophy – MPhil in Computer Science — *Canberra, ACT, Australia*
Supervisor: Lexing Xie and Colin Klein

The University of Melbourne — February 2018 – December 2020
Bachelor of Science in Computer Science — *Melbourne, VIC, Australia*
First Class Honours

EXPERIENCE

Summer Research Scholar — December 2020 – March 2021
Computational Media Lab, the Australian National University — *Canberra, ACT, Australia*

· Supervisors: Lexing Xie and Colin Klein

Tutor and Demonstrator — March 2020 –

· Elements of Data Processing (COMP20008, UniMelb)
· Artificial Intelligence (COMP30024, UniMelb)
· Optimisation (COMP4691, ANU)
· Machine Learning and Data Mining (COMP5318, USyd)

Research Intern — July 2020 – August 2020
University of Sydney — *Sydney, NSW, Australia*

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

Summer Research Scholar — December 2019 – February 2020
University of Sydney Faculty of Engineering — *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 — November 2019 – December 2019
Melbourne School of Mathematics and Statistics — *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*

AWARDS AND ACHIEVEMENTS

- Master of Philosophy Scholarship Tuition and Stipend Scholarships, ANU (2021)

- Dean's Honour List, UniMelb (2019 – 2021, 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)

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

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*.

Tuan Dung Nguyen, Amir R. Balef, Canh T. Dinh, Nguyen H. Tran, Duy T. Ngo, Tuan Anh Le, and Phuong L. Vo. 2021. Accelerating Federated Edge Learning. *IEEE Communications Letters*, 25(10):3282–3286.