TUAN DUNG (JOSH) NGUYEN

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https://joshnguyen99.github.io

EDUCATION

The University of Melbourne   February 2018 – December 2020
Bachelor of Science   *Melbourne, VIC, Australia*
Grade: First Class Honours
Major: Computing and Software Systems

Foreign Languages Specialized School   September 2014 – July 2017
High School Diploma   *Hanoi, Vietnam*
Major: English, Minor: Chinese

EXPERIENCE

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

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

Tutor and Demonstrator   March 2020 – December 2020
Melbourne School of Engineering   *Melbourne, VIC, Australia*

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

Research Intern   July 2020 – August 2020
The 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
The 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*

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

- 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
· Host weekly workshops on algorithms and data structures
· Organize programming competitions

UniMelb Mathematics and Statistics Society (MUMS) 2019 – 2020

· Position: Undergraduate Representative
· Member of the Education and Publicity committees
· Marker of the University Mathematical Olympics 2019

UniMelb Internet of Things Club 2018 – 2020

· Positions: Marketing Director (2019) and Events Director (2020)
· Host bi-weekly workshops and coordinate meetings and social events

UniMelb Student Union 2018 – 2020

· Host at the Orientation Week Program
· Tutor at the VCE Summer School

PUBLICATIONS

[1] C. T. Dinh, N. H. Tran, T. D. Nguyen, W. Bao, A. Y. Zomaya, and B. B. Zhou, "Federated Learning with Proximal Stochastic Variance Reduced Gradient Algorithms," in *49th International Conference on Parallel Processing - ICPP (ICPP '20)*, Edmonton, Canada, Aug. 2020.

[2] C. T. Dinh, N. H. Tran, and T. D. Nguyen, "Personalized Federated Learning with Moreau Envelopes," in *34th Conference on Neural Information Processing Systems*, 2020.