

Thanh Tang NGUYEN

(+61) 403-890-274
thanhnt@deakin.edu.au
www.thanhnguyentang.github.io

Deakin University
Applied Artificial Intelligence Institute (A²I²)
75 Pigdons Rd, Highton VIC 3216, Australia

EDUCATION

- **Deakin University**, Australia 2019-2022
PhD student in Machine Learning and Artificial Intelligence
Thesis: *Reinforcement Learning and Computational Statistics*
Advisor: Sunil Gupta & Svetha Venkatesh
- **Ulsan National Institute of Science and Technology (UNIST)**, South Korea Feb. 2018
M.S. in Computer Science & Engineering (GPA: 4.3 / 4.0)
Thesis: *Parametric information bottleneck to optimize stochastic neural networks*
Advisor: Jaesik Choi
- **Da Nang University of Science and Technology**, Vietnam Jul. 2015
B.Eng. in Electronic and Communication Engineering (valedictorian)
- **Da Nang Le Quy Don high school for gifted students**, Vietnam Sept. 2010
High School Diploma in Mathematics

RESEARCH INTERESTS

Reinforcement Learning; Approximate Inference; Optimal Transport; Optimization; Information-Theoretic Representation Learning; Neural Reading Comprehension.

EXPERIENCE

- **Researcher** Mar. 2018 - Dec. 2018
Ulsan National Institute of Science and Technology (South Korea), School of Computer Science & Engineering, Statistical Artificial Intelligent Lab (SAIL).
- **Research & Teaching Assistant** Mar. 2016 - Mar. 2018
Ulsan National Institute of Science and Technology (South Korea), School of Computer Science & Engineering, Statistical Artificial Intelligent Lab (SAIL).
- **Teaching Assistant** Aug. 2015 - Mar. 2016
Da Nang University of Science and Technology (Vietnam), Center of Excellence, Electronic and Communication Engineering.
- **Mobile Network Intern & Engineer** Jan. 2015 - Aug. 2015
Viettel Network Corporation (Vietnam).
- **Teaching Assistant & Research Assistant** 2011 - Jan. 2015
Da Nang University of Science and Technology (Vietnam), Center of Excellence, Electronic and Communication Engineering.

PUBLICATIONS

- TT Nguyen, S. Gupta, H. Ha, S. Rana, and S. Venkatesh.
[Distributionally Robust Bayesian Quadrature Optimization](#).
Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics (**AISTATS**), Palermo, Italy, 2020.
- TT Nguyen, and J. Choi.
[Markov Information Bottleneck to Improve Information Flow in Stochastic Neural Networks](#).
Entropy, 21(10), 976, 2019.
- H. Ha, S. Rana, S. Gupta, TT Nguyen, H. Tran-The, and S. Venkatesh.
[Bayesian Optimization with Unknown Search Space](#).
Proceedings of the Advances in Neural Information Processing Systems (**NeurIPS**) 32, Vancouver, BC, Canada, 814 December, 2019.
- TT Nguyen, and J. Choi.
[Parametric Information Bottleneck to Optimize Stochastic Neural Networks](#).
Proceedings of the International Symposium on Perception, Action and Cognitive Systems (**PACS**), p. 23-30, Seoul, Korea, 2017. (Best Poster Award)

PREPRINTS

- TT Nguyen, S. Gupta, and S. Venkatesh.
[Moment Matching Reinforcement Learning](#).
Under review. 2020.

SERVICES

- Reviewer: NeurIPS (2020), IJCNN (2020), ICLR (2020), AISTATS (2018).

SELECTED AWARDS

- Machine Learning Summer School (MLSS) 2020 at the Max Planck Institute for Intelligent Systems, Tübingen, Germany (acceptance rate: 13.84%).
- Australian Research Council (ARC) and PRaDA Postgraduate Research Scholarship 2019-2023;
- Ulsan National Institute of Science and Technology Postgraduate Scholarship, 2016;
- Valedictorian and the sole First-Class Graduate in the Electronic and Communication Engineering Program at the Center of Excellence (an advanced engineering program), Da Nang University of Science and Technology, 2015;
- Scholarships for Outstanding Academic Excellence from Da Nang University of Science and Technology in 2010 - 2015;
- JENESYS 2.0 Exchange student by Japan International Cooperation Center 2015;
- Sunflower Mission Engineering & Technology Scholarship by eSilicon and Texas Instrument, 2014;
- Third and Second Prize in Mathematics Competition of Da Nang University in 2012 and 2013 resp.;
- Takemoto Denki scholarship in 2012; Lawrence S.Ting scholarship per academic year from 2013 to 2015; Nguyen Thai-Binh Scholarship in 2013; Thanh-Nhan Scholarship in 2013;

- First Prize in the National Competition of Solving Mathematical Problems by the Journal of Mathematics and Youth, 2010;
- Silver Medal in Southern Vietnam Mathematics Olympiad, 2008;
- First Prizes in Da Nang Mathematics Competition for high school students in 2008, 2009, and 2010.

SKILLS

Programming: python, MATLAB, C++; **Deep learning framework:** Tensorflow, Pytorch; **Parallel computing:** OpenMP, MPI, CUDA, pthreads.

LANGUAGES

Vietnamese : Native
 English : Proficient (TOEFL iBT score of 96)

REFERENCES

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| <ul style="list-style-type: none"> • Alfred Deakin Prof. Svetha Venkatesh
Deakin University
Applied Artificial Intelligence Institute
svetha.venkatesh@deakin.edu.au • Assoc. Prof. Sunil Gupta
Deakin University
Applied Artificial Intelligence Institute
sunil.gupta@deakin.edu.au • Assoc. Prof. Jaesik Choi
Korea Advanced Institute of Science and Technology (KAIST)
School of Artificial Intelligence
Statistical Artificial Intelligent Lab (SAIL)
jaesik@kaist.ac.kr | <ul style="list-style-type: none"> • Assoc. Prof. Tuan V. PHAM
Da Nang University of Science and Technology
Center of Excellence
pvtuan@dut.udn.vn • Major Tra-My V. NGUYEN
Department of Mobile Network
Technical Center II - Viettel Networks Corporation
tramynv@viettel.com.vn • Dr. Thai-Son Nguyen-Duy
Department of Mathematics
Da Nang University of Education
nguyent63@gmail.com |
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