Thanh Tang NGUYEN

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Deakin University
Applied Artificial Intelligence Institute (A^2I^2)
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Education

- **Deakin University**, Australia 2019-2022
  PhD student in Machine Learning and Artificial Intelligence
  Thesis: *Reinforcement learning and Bayesian optimization: A Distributional Perspective*
  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 (Probabilistic) Inference; Optimal Transport; Optimization.

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** Oct. 2014 - 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)

Services

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

Selected Awards

- 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

- Alfred Deakin Prof. Svetha Venkatesh
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  Applied Artificial Intelligence Institute
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- Assoc. Prof. Sunil Gupta
  Deakin University
  Applied Artificial Intelligence Institute
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- Assoc. Prof. Jaesik Choi
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- Dr. Thai-Son Nguyen-Duy
  Department of Mathematics
  Da Nang University of Education
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