

Trang H. Tran

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(Updated November 1, 2021)

FIELDS OF INTEREST

Optimization, and Machine Learning/Deep Learning

EDUCATION

- 2020 – Present [School of Operations Research and Information Engineering, Cornell University](#)
Doctor of Philosophy, Major: Operations Research
PhD advisor: Prof. Katya Scheinberg
PhD co-advisor: Dr. Lam M. Nguyen
- 2019 – 2020 [Institute of Mathematics, Vietnam Academy of Science and Technology](#)
Graduate Study in Applied Mathematics (Dropped)
- 2015 – 2019 [Hanoi National University of Education](#)
Honor Class, Faculty of Mathematics
Degree of Bachelor, Classification: Excellent

PUBLICATION

- 2021 [SMG: A Shuffling Gradient-Based Method with Momentum](#)
Trang H. Tran, Lam M. Nguyen, and Quoc Tran-Dinh
International Conference on Machine Learning (ICML 2021) (21.47% acceptance rate)

PROFESSIONAL ACTIVITIES

- 2020 – Present [Program Committee – Reviewer \(peer-reviewed conferences\)](#)
International Conference on Machine Learning (ICML 2021, 2020)
Conference on Neural Information Processing Systems (NeurIPS 2021)
International Conference on Learning Representations (ICLR 2022, 2021)
Conference on Artificial Intelligence (AAAI 2022)
International Conference on Artificial Intelligence and Statistics (AISTATS 2022, 2021)
- 2021 [Reviewer \(peer-reviewed journal\)](#)
IEEE Transactions on Signal Processing
- 2021 [Program Committee – Reviewer \(workshops\)](#)
Optimization for Machine Learning: Beyond Worst-case Complexity (OPT 2021 - NeurIPS 2021 Workshop)
New Frontiers in Federated Learning: Privacy, Fairness, Robustness, Personalization and Data Ownership (NFFL 2021 - NeurIPS 2021 Workshop)
- 2021 [Session Chair / Organizer](#)
INFORMS Annual Meeting 2021
"Recent Advances in Stochastic Gradient Algorithms"

RESEARCH EXPERIENCES

- [AI Research Intern \(upcoming\)](#)
- Summer 2022 IBM Research, Thomas J. Watson Research Center, Yorktown Heights, NY
Working under the supervision of Dr. Lam M. Nguyen
Research areas: Machine Learning

Research Assistant
Fall 2021 Cornell University
Working under the supervision of Prof. Katya Scheinberg
In this project, we analyze the stochastic methods for continuous optimization problems. We investigate some fundamental properties of various probabilistic zeroth-order/first-order oracles and aim to utilize that information to design effective optimization methods.

HONORS & AWARDS

- 2021 [Outstanding Reviewer](#)
International Conference on Learning Representations (ICLR 2021)
Reviewer Award (Top 10%)
- 2020 [ORIE Field Fellowship](#)
Eleanor and Howard Morgan PhD'68 Graduate Fellowship, Fall 2020
- 2019 [Young Talent Scholarship Programme 2019](#)
From the Vingroup Innovation Foundation (VINIF) for outstanding students who are pursuing the domestic postgraduate study programmes
- 2016 – 2018 [Students Scholarship in National Program](#)
for the Development of Mathematics until 2020
- 2016 [First Prize on Algebra](#)
In Vietnam Mathematics Competition for University Students (nationwide award)

TALKS

- 10 – 2021 [Shuffling Gradient-Based Methods](#)
INFORMS Annual Meeting 2021, Anaheim, CA
- 07 – 2021 [SMG: A Shuffling Gradient-Based Method with Momentum](#)
International Conference on Machine Learning (ICML 2021)

OTHER EXPERIENCES

- [Teaching Assistant](#)
Spring 2021 ORIE 3510 Introduction to Engineering Stochastic Processes,
Cornell University

SKILLS

- [Technical](#) Python, MATLAB, PyTorch, TensorFlow, Keras, Gurobi.
[Language](#) Vietnamese (native), English (proficient)

REFERENCES

Katya Scheinberg, Ph.D.
[Professor](#),
[School of Operations Research and Information Engineering, Cornell University](#)
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<https://www.orie.cornell.edu/faculty-directory/katya-scheinberg>

Lam M. Nguyen, Ph.D.

Research Staff Member,

IBM Research, Thomas J. Watson Research Center

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<https://researcher.watson.ibm.com/researcher/view.php?person=ibm-lamnguyen.mltd>

Quoc Tran-Dinh, Ph.D.

Associate Professor,

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