

# Trang H. Tran

✉ [htt27@cornell.edu](mailto:htt27@cornell.edu) · <https://htt-trangtran.github.io>

(Updated November 1, 2021)

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## FIELDS OF INTEREST

Optimization, and Machine Learning/Deep Learning

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## 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

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## 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)

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## 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"

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## 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 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.

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## 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)

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## 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)

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## OTHER EXPERIENCES

- Teaching Assistant  
Spring 2021 ORIE 3510 Introduction to Engineering Stochastic Processes,  
Cornell University

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## SKILLS

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

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## REFERENCES

Katya Scheinberg, Ph.D.  
[Professor](#),  
[School of Operations Research and Information Engineering, Cornell University](#)  
225 Frank H.T. Rhodes Hall, Ithaca, NY 14850, USA  
✉ [katyas@cornell.edu](mailto:katyas@cornell.edu) ☎ +1 (607) 255-1525  
<https://www.orie.cornell.edu/faculty-directory/katya-scheinberg>

Lam M. Nguyen, Ph.D.

Research Staff Member,

IBM Research, Thomas J. Watson Research Center

1101 Kitchawan Rd, Yorktown Heights, NY 10598, USA

✉ lamnguyen.mltd@ibm.com ☎ +1 (469) 834-7021

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

Quoc Tran-Dinh, Ph.D.

Associate Professor,

Department of Statistics and Operations Research, The University of North Carolina at Chapel Hill

333 Hanes Hall, Chapel Hill, NC 27599, USA

✉ quoctd@email.unc.edu ☎ +1-919-843-6023

<https://quoctd.web.unc.edu/>