

Trang H. Tran

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(Updated July 13, 2025)

EDUCATION

- 2020 – 2024 **Ph.D., Cornell University**
School of Operations Research and Information Engineering.
Major: Mathematical Programming.
Advisor: Dr. Katya Scheinberg, Co-advisor: Dr. Lam M. Nguyen.
- 2015 – 2019 **B.S., Hanoi National University of Education**
Major: Mathematics and Education.

RESEARCH EXPERIENCE

- 2025 – Present **Postdoctoral Research Associate**
Lehigh University, Bethlehem, PA
Supervisor: Dr. Luis Nunes Vicente
- Summer 2024 **Siegel PiTech PhD Impact Fellow**
ADAPT Community Network, New York City, NY
Supervisor: Ronak Parikh
- Summer 2023 **Research Scientist Intern (Artificial Intelligence)**
IBM, Thomas J. Watson Research Center, Yorktown Heights, NY
Supervisors: Dr. Lam M. Nguyen, Dr. Kyongmin Yeo, Dr. Nam H. Nguyen
- Summer 2022 **Research Scientist Intern (Artificial Intelligence)**
IBM, Thomas J. Watson Research Center, Yorktown Heights, NY
Supervisor: Dr. Lam M. Nguyen

PAPERS

Peer-reviewed Conference Papers

- 2024 **Shuffling Gradient-Based Methods for Nonconvex-Concave Minimax Optimization**
Quoc Tran-Dinh, **Trang H. Tran**, Lam M. Nguyen
Conference on Neural Information Processing Systems (**NeurIPS**) (25.8% acceptance rate)
- 2024 **Improving Time Series Encoding with Noise-Aware Self-Supervised Learning and an Efficient Encoder**
Anh Duy Nguyen, **Trang H. Tran**, Hieu H. Pham, Phi Le Nguyen, Lam M. Nguyen
IEEE International Conference on Data Mining (**ICDM**) (19.5% acceptance rate)
- 2023 **On the Convergence to a Global Solution of Shuffling-Type Gradient Algorithms**
Lam M. Nguyen*, **Trang H. Tran***
Conference on Neural Information Processing Systems (**NeurIPS**) (26.1% acceptance rate)
- 2022 **Nesterov Accelerated Shuffling Gradient Method for Convex Optimization.**
Trang H. Tran, Katya Scheinberg, Lam M. Nguyen
International Conference on Machine Learning (**ICML**) (21.9% acceptance rate)
- 2021 **SMG: A Shuffling Gradient-Based Method with Momentum**
Trang H. Tran, Lam M. Nguyen, Quoc Tran-Dinh
International Conference on Machine Learning (**ICML**) (21.47% acceptance rate)

Peer-reviewed Journal Papers

- 2024 **Shuffling Momentum Gradient Algorithm for Convex Optimization.**
Trang H. Tran, Quoc Tran-Dinh, Lam M. Nguyen
Vietnam Journal of Mathematics (**VJOM**)
Special issue dedicated to Dr. Tamás Terlaky on the occasion of his 70th birthday, 2024
- 2024 **Stochastic ISTA/FISTA Adaptive Step Search Algorithms for Convex Composite Optimization**
Lam M. Nguyen, Katya Scheinberg, **Trang H. Tran** †
Journal of Optimization Theory and Applications (**JOTA**)

Peer-reviewed Workshop Papers

2023 [Stochastic FISTA Step Search Algorithm for Convex Optimization](#)

Trang H. Tran, Lam M. Nguyen, Katya Scheinberg
Conference on Neural Information Processing Systems (**NeurIPS**),
Workshop on Optimization for Machine Learning (**OPT**)

Papers Under Review

2023 [A Univariate Pretrain-Finetune Approach for Time Series Using Supervised Contrastive Learning](#)

Trang H. Tran, Lam M. Nguyen, Kyongmin Yeo, Nam Nguyen, Roman Vaculin

2023 [An End-to-End Time Series Model for Simultaneous Imputation and Forecast](#)

Trang H. Tran, Lam M. Nguyen, Kyongmin Yeo, Nam Nguyen, Dzung Phan, Roman Vaculin, Jayant Kalagnanam

2022 [New Perspective on the Global Convergence of Finite-Sum Optimization](#)

Lam M. Nguyen*, **Trang H. Tran***, Marten van Dijk

Technical Reports

2022 [Finding Optimal Policy for Queueing Models: New Parameterization](#)

Trang H. Tran, Lam M. Nguyen, Katya Scheinberg

* denotes equal contributions, † denotes alphabetical order

PROFESSIONAL ACTIVITIES

Member

2022 – Present [Editorial Board, Machine Learning Journal](#)

Organizer

2023 [Workshop Organizer](#)

When Machine Learning meets Dynamical Systems: Theory and Applications.

Lam M. Nguyen, **Trang H. Tran**, Wang Zhang, Subhro Das and Tsui-Wei Weng
Workshop at the Conference on Artificial Intelligence (AAAI)

2021 – Present [Session Chair](#)

INFORMS Annual Meeting 2025 – "Iterative Optimization Approaches"

INFORMS Annual Meeting 2023 – "First-Order Methods for Machine Learning"

INFORMS Annual Meeting 2022 – "Optimization for Machine Learning"

INFORMS Annual Meeting 2021 – "Recent Advances in Stochastic Gradient Algorithms"

Reviewer

2020 – Present [Program Committee – Reviewer \(peer-reviewed conferences\)](#)

International Conference on Machine Learning (ICML 2020 - 2024)

Conference on Neural Information Processing Systems (NeurIPS 2021 - 2024)

International Conference on Learning Representations (ICLR 2021 - 2024)

Conference on Artificial Intelligence (AAAI 2022, 2025)

International Conference on Artificial Intelligence and Statistics (AISTATS 2021 - 2025)

Conference on Uncertainty in Artificial Intelligence (UAI 2022 - 2023)

Conference on Computer Vision and Pattern Recognition (CVPR 2023)

2021 – Present [Reviewer \(peer-reviewed journals\)](#)

Journal of Machine Learning Research (2022 – Present)

Journal of Optimization Theory and Applications (2022 – Present)

Machine Learning (2021 – Present)

Neural Networks (2022 – 2023)

IEEE Transactions on Neural Networks and Learning Systems (2022)

IEEE Transactions on Signal Processing (2021)

- 2021 [Program Committee – Reviewer \(peer-reviewed workshops\)](#)
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)

PATENTS APPLICATIONS

- 2024 [A Multivariate Time Series Model Which Simultaneously Learns The Spatial And Temporal Relation.](#)
Filed on January 5th, 2024.
Lam M. Nguyen, **Trang H. Tran**.
- 2023 [Time Series Forecasting Using Multivariate Time Series Data With Missing Values.](#)
Filed on February 1st, 2023.
Lam M. Nguyen, **Trang H. Tran**, Kyongmin Yeo, Nam Nguyen, Dzung Phan, Roman Vaculin, Jayant Kalagnanam.
- 2022 [Training A Neural Network Using an Accelerated Gradient with Shuffling.](#)
Filed on July 14th, 2022.
Lam M. Nguyen, **Trang H. Tran**.

HONORS & AWARDS

- 2024 [Cornell Tech PhD Impact Fellowship](#)
Siegel Family Endowment PiTech PhD Impact Fellowship, Summer 2024
- 2023 [NeurIPS 2023 Scholar Award](#)
Conference on Neural Information Processing Systems (NeurIPS 2023) (Travel Grant)
- 2022 [UAI 2022 Top Reviewer](#)
Conference on Uncertainty in Artificial Intelligence (UAI 2022)
- 2022 [ICML 2022 Participation Grant](#)
International Conference on Machine Learning (ICML 2022)
- 2021 [ICLR 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

- 07/2024 [Stochastic ISTA/FISTA Adaptive Step Search Algorithms for Convex Composite Optimization.](#)
International Symposium on Mathematical Programming (ISMP 2024), Montreal, Canada
- 12/2023 [On the Convergence to a Global Solution of Shuffling-Type Gradient Algorithms.](#)
Conference on Neural Information Processing Systems (NeurIPS 2023), New Orleans, LA
- 10/2023 [Stochastic Optimization Methods with Momentum.](#)
INFORMS Annual Meeting 2023, Phoenix, AZ
- 01/2023 [Shuffling Gradient Methods for Finite-sum Optimization.](#)
Institute of Mathematics, Vietnam Academy of Science and Technology, Hanoi, Vietnam
- 10/2022 [Nesterov Accelerated Shuffling Gradient Method.](#)
INFORMS Annual Meeting 2022, Indianapolis, IN

- 07/2022 [Nesterov Accelerated Shuffling Gradient Method for Convex Optimization.](#)
International Conference on Machine Learning (ICML 2022), Baltimore, MD
- 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), virtual conference

TEACHING EXPERIENCES

Instructor of Record - Lehigh University

Fall 2025 ISE 364/464 Introduction to Machine Learning

Teaching Assistant - Cornell University

Fall 2024 ORIE 6730 Mathematics of Deep Learning

Spring 2024 ORIE 3310 Optimization II

Fall 2022 MATH 2940 Linear Algebra for Engineers

Spring 2021 ORIE 3510 Introduction to Engineering Stochastic Processes

Mentorship

2024 – Present [Duc Toan Nguyen](#)

Undergraduate student, Mathematics and Computer Science, Texas Christian University. (co-advise with Dr. Lam M. Nguyen)

2022 – 2023 [Anh Duy Nguyen](#)

Ph.D. student, Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign. (co-advise with Dr. Lam M. Nguyen)

2022 – 2023 [Angelos Assos](#)

Undergraduate student, Computer Science and Mathematics, Massachusetts Institute of Technology. (co-advise with Dr. Lam M. Nguyen and Prof. Luca Daniel)

REFERENCES

Katya Scheinberg, Ph.D.

[Coca-Cola Foundation Chair and Professor, H. Milton Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology](#)

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Lam M. Nguyen, Ph.D.

[Staff Research Scientist, IBM Research, Thomas J. Watson Research Center](#)

1101 Kitchawan Rd, Yorktown Heights, NY 10598, USA

✉ lamnguyen.mltd@ibm.com <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

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Marten van Dijk, Ph.D.

[Group Leader, Scientific Staff Member, Computer Security, Centrum Wiskunde & Informatica](#)

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