Nhi Pham

IMPRS-TRUST Fellow, Max Planck Institute for Informatics, Saarland, Germany
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EDUCATION

Max Planck Institute for Informatics & Saarland University   10/2023 – Present
IMPRS-TRUST fellow
Advisors: Prof. Bernt Schiele & Dr. Jonas Fischer

New York University Abu Dhabi   09/2018 – 05/2023
Bachelor of Science: Computer Science & Mathematics   GPA: 3.94/4.0 (*cum laude*)
Advisors: Prof. Adam L. Meyers (Computer Science) & Prof. Ilya M. Spitkovsky (Mathematics)
Abroad semesters in New York, Shanghai, Kathmandu, London, Aachen, and Berlin.

PUBLICATIONS

[1] **Nhi Pham***, Michael Schott*. 2025. H-POPE: Hierarchical Polling-based Probing Evaluation of Hallucinations in Large Vision-Language Models. In *Statistical Frontiers in LLMs and Foundation Models Workshop*. The Thirty-Ninth Annual Conference on Neural Information Processing Systems.

[2] **Nhi Pham***, Lachlan Pham*, and Adam Meyers. 2024. Towards Better Inclusivity: A Diverse Tweet Corpus of English Varieties. In *Proceedings of The 18th Linguistic Annotation Workshop (LAW-XVIII)*, pages 61–70, St. Julians, Malta. Association for Computational Linguistics. Short Talk.

[3] **Nhi Pham**, and Ilya M. Spitkovsky. On 3-by-3 row stochastic matrices. *Special Matrices* 11, no. 1 (2023): 20230103.

[4] **Nhi Pham**, Lachlan Pham, and Adam L. Meyers. 2021. Legal Terminology Extraction with the Termolator. In *Proceedings of the Natural Legal Language Processing Workshop 2021*, pages 155–162, Punta Cana, Dominican Republic. Association for Computational Linguistics. Oral Presentation.

TALKS

[1] *"Latent Factor Discovery in Markov Process through Optimal Transport"*
Courant Institute for Mathematical Sciences, United States, 10/2020.
National Conferences on Undergraduate Research, University of North Carolina, United States, 04/2021.

AWARDS

NYU Founders' Day Award (University Honors Scholar) & Latin Honors, top-ranking graduates	05/2023
Honorable Mention - NYUAD Piano Prize for Academic Excellence, top 3 students in all Science majors	05/2023
NYU Abu Dhabi Conference Travel Grant	04/2023
Erasmus Mundus Joint Masters Full Scholarship, acceptance rate 2% [declined]	02/2023
NYU Full Scholarship for Undergraduate Studies, ∼$80,000/year, acceptance rate 4%	09/2018 – 05/2023
Nominated for NYU Abu Dhabi Campus Life Leadership Award - Community Service	03/2021
NSF Scholarship Recipient, CMD-IT/ACM Tapia Celebration of Diversity in Computing	07/2020
NYU Courant Instite of Mathematical Sciences Summer Research Grant	05/2020 – 10/2020
AnitaB.org Scholarship Recipient, Grace Hopper Celebration of Women in Computing	03/2020
NYU Tandon Undergraduate Research Funding Award	2019 & 2020

RESEARCH EXPERIENCE

Max Planck Institute for Informatics   Saarland, Germany
Research Assistant, advised by Prof. Bernt Schiele and Dr. Jonas Fischer   10/2023 – Present

Mathematics Division, New York University   Abu Dhabi, UAE
Research Assistant, advised by Prof. Ilya M. Spitkovsky   01/2022 – 06/2023
Investigated the shapes of numerical ranges of 3×3 row stochastic matrices.

Computer Science Division, New York University   New York, US
Research Assistant, advised by Prof. Adam L. Meyers   02/2022 – 05/2023
Investigated the geographic differences and biases in English language detection via the evaluation of off-the-shelf language identification tools on the constructed Twitter-based geographically representative English data set.

Courant Institute of Mathematical Sciences   New York, US
Research Assistant, advised by Prof. Esteban G. Tabak   05/2020 – 10/2020
Selected as an outstanding second-year mathematics student to conduct research on factor discovery using optimal transport, with applications in Markov models [AM-SURE 2020]

TEACHING EXPERIENCE

High-level Computer Vision, Teaching Assistant, SS 04/2025 – 08/2025   Saarland, Germany
Neural Networks: Theory and Implementation, Tutor, WS 10/2024 – 02/2025   Saarland, Germany
Unix Lab, New York University, Peer Tutor, 09/2020 – 05/2023   Abu Dhabi, UAE

INDUSTRY EXPERIENCE

Meta (formerly Facebook)   London, United Kingdom
Software Engineering Intern   06/2022 – 08/2022

- Implemented and tested new Facebook Ads features in React, PHP, and GraphQL.
- Ranked 2nd among all interns for outstanding performance with *Exceeding Expectations* rating.

Amazon AWS AI   Aachen & Berlin, Germany
Software Developer Intern   09/2021 – 04/2022

- Built AWS platform to automate human-in-the-loop tasks in Python and Typescript.
- Offered a return fulltime position based on outstanding performance [letter of reference].

Goldman Sachs   London, United Kingdom
Quantitative Strategist Intern   06/2021 – 08/2021

- Deployed machine learning to develop new buy-side strategies, and achieved $\sim 16\%$ improvement on historical data.
- Offered a return fulltime position based on outstanding performance (top 3 quantitative strategist interns).

LEADERSHIP & SCIENCE OUTREACH

MPI Equal Opportunities Workgroup   Germany
Member   10/2023 – Present

- Participate in monthly meetings to discuss strategies for enhancing diversity and inclusion within the MPI PhD Network.

Woman Empowered in STEM Student Group   Abu Dhabi, UAE
Unconscious Bias Team Leader in 2020-2021, Mentor in 2023   09/2020 – 05/2023

- Created and supported events that support women and minorities in STEM.
- Led the design and coordination of the 2020 WeSTEM Coding Interview Preparation program.

HackAD Student Group   Abu Dhabi, UAE
Event Coordinator   09/2019 – 05/2020

- Organized on-campus hackathons and speaker panels for computer science students.
- Led the collaboration with other student-led groups: WeSTEM, Math Club.

NYUAD Math Club   Abu Dhabi, UAE
Vice President   09/2019 – 05/2020

- Organized on-campus Olympiad math trainings for students.
- Coordinated with university administration for international and regional competitions.