

# Elisa Nguyen

PhD student in Trustworthy Machine Learning

✉ elisa.nguyen@live.de | 🏠 <http://elisanguyen.github.io> | 🌐 ElisaNguyen

## Education

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### International Max Planck Research School for Intelligent Systems

Tübingen, DE

PhD student in STAI group led by Prof. Dr. Seong Joon Oh

May 2022 - present

- Thesis (tentative): Towards human-centered data attribution
- Advisor: Prof. Dr. Seong Joon Oh
- Research interests: Explainable AI, HCI, data-centric AI, and model evaluation

### University of Twente

Enschede, NL

MSc in Interaction Technology, GPA: 8.6 (cum laude)

Sep. 2019 - Dec. 2021

- Thesis: Temporal Spike Attribution - A local feature-based explanation for spiking neural networks
- Thesis advisors: Prof. Dr. Christin Seifert, Dr. Gwenn Englebienne and Dr. Meike Nauta

### Nordakademie

Elmshorn, DE

BSc in Computer Science and Management, GPA: 1.8

Oct. 2013 - Mar. 2017

- Thesis in collaboration with Airbus: Requirements development for a PLM system for specific processes in an Industry 4.0 context
- Thesis advisors: Prof. Hinrich Schröder and Alcibiades Gonzalez, M.Sc. (Airbus).
- Erasmus Semester at ebs Paris with courses in international management and marketing.

## Professional Experience

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### Vector Institute

Toronto, CA

Research internship

Jan 2025 - May 2025

Visiting Prof. Dr. Roger Grosse's group in the frame of Vector's research internship program.

### University of Twente

Enschede, NL

Literature survey on evaluation methods in explainable AI

May 2021 - Dec 2021

Student research assistant in a team across the University of Twente and the University of Duisburg-Essen led by Meike Nauta.

### Airbus

Hamburg, DE

IT Project Manager in Technical Data Management department

Mar 2017 - Sep 2019

- Scrum Master for legacy retirement of CAD Software.
- Project support (Risk, Budget and Stakeholder Management) in PLM projects.
- Technical and financial management of bundle contracts with suppliers.

### Airbus

Hamburg, DE

Dual Student of Computer Science and Management

Aug 2013 - Mar 2017

- Internships in Airbus ICT in IT Governance, project- and service management.
- Member of Airbus' vocational training IT team in Hamburg.

## Teaching experience

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### Supervision:

Anastasia Alekseeva

Master Thesis, Mar. 2024 - Sep. 2024, University of Tübingen

Albert Catalan

Research project and Master Thesis, Nov. 23 - Dec. 2024, University of Tübingen

Evgenii Kortukov

Master Thesis, Jun. 2023 - Mar. 2024, University of Tübingen

### Teaching:

Tutor Trustworthy ML

WS 2022/2023, University of Tübingen

TA Data Science

SS 2021, University of Twente

TA NLP

WS 2020/2021, University of Twente

Tutor Discrete Mathematics 2

Q3 2016, Nordakademie

Tutor Discrete Mathematics 1

Q1 2015, Nordakademie

## Publications

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\* Equal contribution

### Conference and Journal papers:

- [1] Kortukov, E., Rubinstein, A., **Nguyen, E.**, Oh, S. J. (2024). Studying Large Language Model Behaviors Under Realistic Knowledge Conflicts. arXiv preprint arXiv: 2404.16032. *Accepted at COLM 2024.*
- [2] **Nguyen, E.**, Seo, M., & Oh, S. J. (2024). A Bayesian approach to analysing training data attribution in deep learning. *Advances in Neural Information Processing Systems*, 36.
- [3] **Nguyen, E.**, Nauta, M., Englebienne, G., & Seifert, C. (2023). Feature Attribution Explanations for Spiking Neural Networks. In *2023 IEEE 5th International Conference on Cognitive Machine Intelligence (CogMI)* (pp. 59-68). IEEE.
- [4] Nauta, M., Trienes, J., Pathak, S., **Nguyen, E.**, Peters, M., Schmitt, Y., ... & Seifert, C. (2022). From anecdotal evidence to quantitative evaluation methods: A systematic review on evaluating explainable ai. *ACM Computing Surveys*.
- [5] **Nguyen, E.\***, Theodorakopoulos, D.\*, Pathak, S., Geerdink, J., Vijlbrief, O., Van Keulen, M., & Seifert, C. (2020, October). A hybrid text classification and language generation model for automated summarization of dutch breast cancer radiology reports. In *2020 IEEE second international conference on cognitive machine intelligence (CogMI)* (pp. 72-81). IEEE.
- [6] Geissler, D.\*, **Nguyen, E.\***, Theodorakopoulos, D.\*, & Gatti, L. (2020). Pokérator-Unveil your inner Pokémon. In *ICCC* (pp. 500-503).

### Workshop papers:

- [1] **Nguyen, E.**, Kortukov, E., Song, J. & Oh, S. J. (2023). Exploring Practitioner Perspectives On Training Data Attribution Explanations. arXiv preprint arXiv:2310.20477. *Accepted at NeurIPS XAI in Action workshop 2023.*

### Textbook:

- [1] Mucsányi, B., Kirchhof, M., **Nguyen, E.**, Rubinstein, A., Oh, S. J. (2023). *Trustworthy Machine Learning*. <https://trustworthymml.io/>.

### Preprints:

- [1] **Nguyen, E.**, Bertram, J., Kortukov, E., Song, J. & Oh, S. J. (2024). Towards User-Focused Research in Training Data Attribution for Human-Centered Explainable AI. arXiv preprint arXiv:2409.16978
- [2] Davies, A., **Nguyen, E.**, Simeone, M., Johnston, E., & Gubri, M. (2024). Social Science Is Necessary for Operationalizing Socially Responsible Foundation Models. arXiv preprint arXiv:2412.16355

## Academic Service

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### Reviewing

NeurIPS 2024, eXCV@ECCV 2024, RBFM@NeurIPS 2024, CHI 2025

### Workshop organization

Co-organising ATTRIB@NeurIPS 2024, Volunteering at WiML@ICML 2024

## Skills

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### Coding

Python, Django, Version control with Git

### Organization

Classical project management, Agile project management (Scrum, SAFe)

### Languages

German (Mother tongue), English (C2), French (C1), Vietnamese (Mother tongue), Dutch (B2)

## Outreach and Volunteering

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### Tübingen AI Center

PhD Representative

*Tübingen, DE*

Sep. 2024 - Present

### KI macht Schule

Active Member

*Tübingen, DE*

Nov. 2022 - Present

### Viva con Agua

Active Member

*Tübingen, DE*

Sep. 2022 - Present