# Elisa Nguyen

### PhD student in Trustworthy Machine Learning

☑ elisa.nguyen@live.de | 🌴 http://elisanguyen.github.io | 🗘 ElisaNguyen | **in** nguyen-elisa | 💆 @\_elinguyen

### Education \_

#### International Max Planck Research School for Intelligent Systems

Tübingen, DE

PhD student May 2022 - present

- Thesis (tentative): Towards human-centered data attribution
- Advisor: Seong Joon Oh
- · Research interests: Explainable AI, HCI 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. Christin Seifert, Dr. Gwenn Englebienne and Meike Nauta, M.Sc.

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 \_\_\_\_\_

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. This research resulted in a survey paper, published in the ACM CSUR journal.

Airbus Hamburg, DE

IT Project Manager in Technical Data Management department

Mar. 2017 - Sep. 2019

- · Scrum Master for legacy retirement of CAD Software.
- $\bullet\,$  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 \_\_\_\_\_

Supervision:

Anastasia Alekseeva Master Thesis, Mar. 2024 - Sep. 2024, University of Tübingen Research project, Nov. 23 - Apr. 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**

\* Equal contribution

#### **Conference and Journal papers:**

- [1] **Nguyen, E.**, Seo, M., & Oh, S. J. (2023). A Bayesian Approach To Analysing Training Data Attribution In Deep Learning. arXiv preprint arXiv:2305.19765. Accepted at NeurIPS 2023.
- [2] **Nguyen, E.**, Nauta, M., Englebienne, G. & Seifert, C. (2023). Feature Attribution Explanations for Spiking Neural Networks. arXiv preprint arXiv:2311.02110. *Accepted at CogMI 2023*.
- [3] 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.
- [4] **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.
- [5] 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://trustworthyml.io/.

#### **Preprints:**

[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.

### Skills

**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**

KI macht Schule Tübingen, DE

Active Member

Nov. 2022 - Present

KI macht Schule's mission is to educate high school students in matters of artificial intelligence and machine learning by giving workshops at local schools. Courses so far: 4 courses for students and 1 course for teachers.

Viva con Agua Tübingen, DE

Active Member

Sep. 2022 - Present

Viva con Agua is a non-profit association for promoting clean drinking water around the world. We raise funds to support WASH projects (water, sanitation and hygiene) in Viva con Agua partner countries.

#### Freiwilligenbörse Hamburg

Hamburg, DE

Tutor

Jan. 2022 - Apr. 2022

In this position, I tutored students from low-income families at elementary to high school levels in Maths and English.