Elisa Nguyen

PhD student in Trustworthy Machine Learning

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Education

International Max Planck Research School for Intelligent Systems   *Tübingen, DE*

PhD student   May 2022 - present
- Thesis (tentative): Human-centered training 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.
- 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

Superivision:

Anastasia Alekseeva	Master Thesis, Mar. 2024 - Sep. 2024, University of Tübingen
Albert Catalan	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*.

Preprints:

[1] Mucsányi, B., Kirchhof, M., **Nguyen, E.**, Rubinstein, A., Oh, S. J. (2023). Trustworthy Machine Learning. arXiv preprint arXiv: 2310.08215.

Skills

Coding	Python, Django, Version control with Git
Organization	Classical project management, Agile project management (Scrum, SAFe)
Languages	German (Mother tongue), English (Proficient), French (Fluent), Vietnamese (Fluent), Dutch (Good)

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.

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.