Elisa Nguyen

PhD student in Trustworthy Machine Learning

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Experience

University of Tübingen   *Tübingen, DE*

PhD student in Trustworthy AI   May 2022 - present

PhD student in the Scalable Trustworthy AI group (Seong Joon Oh) in the frame of the International Max Planck Research School for Intelligent Systems doctoral program. Research interests focus on Explainable AI, HCI and model evaluation.

University of Twente   *Enschede, NL*

Student research assistant   May 2021 - Dec. 2021

Part of research team across the University of Twente and the University of Duisburg-Essen led by Meike Nauta that conducted a literature study on evaluation methods for eXplainable Artificial Intelligence. 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.
- Change Agent for transformation program to an agile organization (SAFe).

Airbus   *Hamburg, DE*

Dual Student of Computer Science and Management   Aug. 2013 - Mar. 2017

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

Education

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" under the supervision of Prof. Christin Seifert, Dr. Gwenn Englebienne and Meike Nauta, M.Sc.
- Courses in Machine Learning, NLP, Statistics, Design, Ethics.
- Teacher's Assisstant in NLP, Data Science.
- Publications in creative NLP and automatic summarization.

Nordakademie   *Elmshorn, DE*

BSc in Computer Science and Management, GPA: 1.8   Oct. 2013 - Mar. 2017

- Thesis: "Requirements development for a PLM system for specific processes in an Industry 4.0 context" under the supervision of Prof. Hinrich Schröder and Alcibiades Gonzalez, M.Sc. (Airbus).
- Tutor in Discrete Mathematics 1 and 2.
- Erasmus Semester at ebs Paris with courses in international management and marketing.

Skills

Programming	Python (PyTorch), R, Matlab
Version Control	Git
Organization	Classical project management, Agile project management (Scrum, SAFe)
Languages	German (Mother tongue), English (Proficient), French (Fluent), Vietnamese (Fluent), Dutch (Good)

Publications

* Equal contribution

[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*.

[2] **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*.

[3] **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*.

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

[5] 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.

[6] **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.

[7] Geissler, D.*, **Nguyen, E.***, Theodorakopoulos, D.*, & Gatti, L. (2020). Pokérator-Unveil your inner Pokémon. In ICCC (pp. 500-503).

Supervision

Albert Catalan *University of Tübingen*
Research project (9 ECTS) Nov. 2023 - Present

Evgenii Kortukov *University of Tübingen*
Master thesis (30 ECTS) Jun. 2023 - Present

Volunteer

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.