

Dinh Nam Pham

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EDUCATION

- **Sophia University** Sep 2025 - Sep 2026
Study Abroad Tokyo, Japan
 - Focused on developing intercultural competence, interdisciplinary thinking, and soft skills by engaging in multifaceted coursework
- **Technical University of Berlin** Oct 2025 - Aug 2027
M.Sc. Computer Science Berlin, Germany
 - Expected graduation in August 2027
 - Study abroad during the first year of the master program
- **Technical University of Berlin** Oct 2021 - Present
B.Sc. Computer Science Berlin, Germany
 - **Relevant Coursework:** Data Science for Computer Scientists, Human-Computer-Interaction, Continuous Software Engineering, Information Systems and Data Analytics, Database Practical Project
 - Semester abroad in summer 2024 at international summer schools of Tohoku University (June), Hanyang University (July) and Chinese University of Hong Kong (August)

EXPERIENCE

- **German Research Center for Artificial Intelligence (DFKI)** Nov 2022 - Sep 2025
Student Research Assistant Berlin, Germany
 - Investigation, design and implementation of **NLP** methods for automatic Assessment of Quality of Experience for **Natural Language Generation**
 - Independent research on **deep learning**-based recognition of mouth actions for sign language
 - Development and training of deep learning models in **PyTorch** on **GPU clusters**, performing multimodal learning, fine-tuning, multi-task learning & domain adaptation
 - **Pre-processing** of image, video, tabular & text data using **NumPy**, Pandas, OpenCV, & **Scikit-learn**
- **Cambridge CARES (University of Cambridge's research centre outside the UK)** Aug 2023 - Oct 2023
Research Intern Singapore
 - Deployment and bug-fixing of an agent to forecast time series related to a power system
 - Exploration, testing and modification of functionalities of the agent to forecast with covariates
 - Conduction of comprehensive literature review about time series forecasting utilizing knowledge graphs
- **Mercedes-Benz Tech Innovation** Aug 2022 - Oct 2022
Data Engineer Intern Berlin, Germany
 - Implemented and optimized data platforms using tools such as Python, PySpark, Power BI and Databricks
 - Developed a function with PySpark in Databricks to efficiently calculate availability in vehicle tables including billions of entries and presented highly affected attributes as a dashboard in Power BI

PEER-REVIEWED PUBLICATIONS

- Dinh Nam Pham, Vivien Macketanz, Shushen Manakhimova, Sebastian Möller. (2025) **Modeling Quality of Experience in German Automatic Text Summarization and Machine Translation**. In *Proceedings of the 21st Conference on Natural Language Processing (KONVENS 2025): Workshops*, September 2025.
- Dinh Nam Pham and Eleftherios Avramidis. (2025). **The Importance of Facial Features in Vision-based Sign Language Recognition: Eyes, Mouth or Full Face?**. In *ACM International Conference on Intelligent Virtual Agents (IVA Adjunct '25)*, September 2025. DOI: 10.1145/3742886.3756718
- Dinh Nam Pham and Eleftherios Avramidis. (2025). **Transfer Learning from Visual Speech Recognition to Mouthing Recognition in German Sign Language**. In *2025 IEEE 19th International Conference on Automatic Face and Gesture Recognition (FG)*, May 2025. DOI: 10.1109/FG61629.2025.11099322
- Dinh Nam Pham, Vera Czeermann, Eleftherios Avramidis. (2023). **Disambiguating Signs: Deep Learning-based Gloss-level Classification for German Sign Language by Utilizing Mouth Actions**. In *Proceedings of the 31st European Symposium on Artificial Neural Networks, Computational Intelligence, and Machine Learning (ESANN 2023)*, October 2023. DOI: 10.14428/esann/2023.ES2023-168
- Dinh Nam Pham and Torsten Rahne. (2022). **Development and evaluation of a deep learning algorithm for German word recognition from lip movements**. *HNO*, Vol. 70, Issue 6, January 2022. DOI: 10.1007/s00106-021-01143-9

SKILLS

- **Languages:** German (Native), English (C1, score of 100 on TOEFL iBT)
- **Programming Languages:** Python, Java, C, C++, C#
- **Frameworks & Libraries:** PyTorch, TensorFlow, Pandas, Scikit-learn, NumPy, OpenCV, PySpark
- **Database Technologies:** SQL, Postgres, DB2, Spark, BlazeGraph

HONORS AND AWARDS

- **Travel Grant** 2025
IEEE Biometrics Council
 - Received grant of 1000 USD to attend the 19th IEEE International Conference on Automatic Face and Gesture Recognition.
- **"GEH DEINEN WEG"-Scholarship** 2023
German Integration Foundation
 - Each year, 100 promising students in Germany with migration background get chosen to receive support, an excellent network and mentoring for 2 years.
- **Best Poster Award** 2022
German Society of Audiology
 - Received the 1st prize at the poster competition of the 24th Annual Conference of the German Society of Audiology for a lip-reading project.
- **Scholarship** 2022
German Academic Scholarship Foundation
 - The Studienstiftung des deutschen Volkes, Germany's most prestigious scholarship foundation, awards students with outstanding academic potential and personal promise.
 - Awarded to fewer than 0.5% of German students, often being referred to as "Germany's secret elite university"
 - Provides me with full living allowance and funding for semesters, summer schools and internships abroad until my graduation
- **TANDEM-Scholarship** 2022
German University Foundation
 - Competitive merit-based scholarship awarded to first generation students, providing workshops, mentoring and annual financial funding.
- **Honour for outstanding performances in STEM competitions** 2021
eLeMeNTe e.V.
 - One of 16 high school graduates of the state Saxony-Anhalt to be honoured for their outstanding achievements in STEM competitions while representing Saxony-Anhalt on a national or international level.
- **National Finalist** 2020
German National Contest for Artificial Intelligence
 - Reached the national finals as one of the top 5 projects from over 2000 participants with a deep learning-based lip-reading algorithm.