

Kai Li

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in Kai-Li



Education

- Apr 2024 – Mar 2026 **M.Sc. Computer Science (Grade: 1.1 / 5 (A))**, *Technical University Darmstadt*, Darmstadt, Germany
Specialization: Machine Learning, Multimodal AI, and Generative AI
- Feb 2025 – June 2025 **Exchange Semester**, *National Taiwan University*, Taipei, Taiwan
- Oct 2020 – Dec 2024 **B.Sc. Computer Science (Grade: 1.52 / 5 (A–))**, *Technical University Darmstadt*, Darmstadt, Germany
Specialization: Natural Language Processing and Artificial Intelligence
- Feb 2025 – June 2025 **Exchange Semester**, *Högskolan i Skövde*, Skövde, Sweden
- Oct 2019 – Sept 2020 **Electrical Engineering (Coursework completed)**, *Technical University Darmstadt*, Darmstadt, Germany
Completed foundational coursework relevant to Computer Science before switching majors.

Bachelor Thesis

- Title *Evaluating Cultural Diversity in Text-to-Image Models*
- Supervisors Cecilia Chen Liu Msc. and Prof. Iryna Gurevych
- Description Developed a large-scale benchmark to assess cultural knowledge in Text-to-Image models, incorporating a multilingual dataset and compositional prompts. Uncovered significant cross-cultural and language biases using an innovative multimodal evaluation framework. Achieved an outstanding grade of 1.0 (A+)

Experience

Vocational

- Oct 2023 – March 2024 **Implementation of a Incident Management Module for the Train Management System**, *Institute for Railway Systems, TU Darmstadt*, Darmstadt
- Developed a GUI and simulation environment in Python with Tkinter for designing and managing incidents within Railway Systems.
- Detailed achievements:
- Implemented backend functions in Python and optimized the user interface with Tkinter, enhancing the system's usability.
 - Planned and coordinated project resources, while preparing and presenting status updates to the employer.
 - Improved programming skills, expanded Git expertise, and gained practical experience with agile methods such as Scrum through quality assurance and testing.

- Nov 2023 – **Tutor, Department of Computer Science, Technical University Darmstadt, Darmstadt, Germany**
 Feb 2024, Germany
- Nov 2022 – *Subjects: Foundations of Language Technology, Introduction to Compiler Construction and Visual Computing:*
 Feb 2023
- Explained complex technical concepts clearly to support student learning
 - Facilitated interactive seminars to engage and motivate students
 - Coordinated with teaching staff to improve course organization and delivery
- Oct 2021 – **Mentor, IMS System, Department of Computer Science, Technical University Darmstadt, Darmstadt, Germany**
 Mar 2022
- Supported first-year students' growth through attentive listening and guided dialogue.
 - Prepared and led weekly coaching sessions to foster self-reflection and growth








Awards & Scholarships

- Feb 2025 – **Recipient of the PROMOS Scholarship**
 June 2025
- Oct 2021 – **Recipient of the Deutschlandstipendium Scholarship**
 Sep 2023

Languages

German	Native	
English	C1 – Advanced	<i>Used in academic and professional settings</i>
Chinese	B1/B2 – Intermediate	<i>Heritage speaker; completed formal courses during exchange</i>
French	A2 – Basic	<i>Completed coursework during school</i>
Swedish	A2 – Basic	<i>Took introductory classes during exchange semester</i>

Computer skills

Languages:		Python	<i>Used extensively in coursework and Bachelor Thesis for data analysis and automation</i>
		Java & Bash	<i>Applied in coursework and scripting workflows on Linux systems</i>
Methods:		Scrum	<i>Practiced in academic and team environments; familiar with agile workflows</i>
		Git	<i>Regular use for version control and collaboration</i>
Frameworks & Libraries		Pandas & NumPy	<i>Performed advanced data manipulation and numerical computing in Python</i>
		Huggingface & Scikit-learn	<i>Implemented state-of-the-art NLP models and classical machine learning algorithms</i>
		PyTorch	<i>Designed and trained neural networks for image recognition and NLP</i>

Interests

- Bouldering Recreational climber for 5 years
- Traveling Interested in learning about different cultures and languages
- Languages Actively learning and practicing new languages