

QIANG LI

Email ◇ LinkedIn ◇ GitHub ◇ Personal Website <https://qiangli.de> ◇ Blog

EDUCATION

ETH Zürich, IDEA Research Grant Student, GPA: 1.7/1.0 (Best) November 2019 - August 2020
RWTH Aachen, M.Sc. Computer Science, GPA: 2.2/1.0 (Best) October 2017 - October 2020
Hefei University of Technology, B.Sc. IoT Engineering, GPA: 3.6/4.0 (Best) September 2012 - June 2016

WORK EXPERIENCE

Accenture Since June 2021 -
Specialist/Tech Lead

- Delivered ≥ 30 E2E customized use cases and pipelines for quality inspection in manufacturing, involving **anomaly detection, classification, segmentation, OCR, color feature analysis, and audio-to-image acoustic analysis**, integrated within the Azure ecosystem.
- Served as one of the RollOut Team Leads (1/3) for **BMW AIQX** client project, responsible for resolving tasks on **cloud migration and model integration, CI/CD deployment**. Standardized inference templates and delivered use cases in collaboration with counterparts from over 10 automotive plants globally. Recognized by clients and featured in major news media (CNBC).
- Staffed as a GenAI Sr. Data Scientist on the **Roche RICI** client project, with a focus on **LLM/VLMs - based video summarization and derivative content generation**. The work was recognized by the client and featured in major news media (LinkedIn) as well as enterprise-level strategy white paper.
- Specialized in data integration and machine learning, contributing to the development of Quality Inspection Visual Systems and Beyond Visual Line of Sight (BVLOS) Drone Showcase. Published research in prestigious venues like **NeurIPS'22, ICLR'21/22, ICASSP'23, CVPRw'24, and NAACL'25**.
- Certified SME in communication and GTM strategy. Delivered end-to-end architecture (ETL, ML, Azure IoT Edge, MLOps, CI/CD, LLM & VLMs) and business modeling. Shaped proposals for **17+ GenAI/Computer Vision projects** across OEM, industrial, utility, and pharma sectors—winning **4 RFPs** valued over **€1M** contribution rate.

Sinovation Ventures September 2020 - December 2020
AI Research Intern. GitHub • Toolkits: Django, GPT

- Focused on **Bert, GPT-2/3 models**, enhanced the performance of GPT-based models and CPM (Chinese pre-trained model) in 10 business scenarios.
- Developed corresponding APIs based on Huggingface Transformers. Responsible for the whole backend Django server and wrote a **technical report** about the **industrial application of GPT-3**.

ETH Zurich IMSB Prof. Dr. Manfred Claassen Group November 2019 - August 2020
Masterand. GitHub • Toolkits: PyQt, YOLO, GhostNet, FasterRCNN

- Proposed a unifying approach enabling data-driven learning of morphological characteristics of Sezary Syndrome. Finished the master thesis: Cell Morphology Based Diagnosis of Cancer using Convolutional Neural Networks, rewarded by IDEA League Research Grant from RWTH and ETH Zürich.
- The paper on cell annotation tool for single-cell morphology data has been accepted for poster presentation and a 2-minute spotlight talk at **ICLR 2021 AI for Public Health Workshop**.
- Achieved 2nd place on the **Deecamp 2020** medical track competition by CellNet software integrating with 12 algorithms and 8 data sets.

SELECT PUBLICATIONS

- **Q. Li**, M. Tan, X. Zhao, D. Zhang, D. Zhang, S. Lei, A. S. Chu, L. Li, and P. Kamnoedboon. *How LLMs React to Industrial Spatio-Temporal Data? Assessing Hallucination with a Novel Traffic Incident Benchmark Dataset*. **NAACL**, Full Paper, 05.2025, pp. 36–53, Albuquerque, USA.
- **Q. Li**, D. Zhang, S. Lei, X. Zhao, S. Li, P. Kamnoedboon, W. Li, J. Dong and S. Li. *XIMAGENET-12: An Explainable AI Benchmark Dataset for Model Robustness Evaluation*. **CVPRw**, Full Paper, 04.2024.
- E. Ozmermer, **Q. Li**. *Self-supervised Learning with Temporary Exact Solutions: Linear Projection*. The 21st IEEE International Conference on Industrial Informatics (**INDIN**), Full Paper, 05.2023.
- Z. Jia, **Q. Li**, Y. Lin, Y. Zhou, X. Cai, P. Zheng and J. Wang. *Exploiting Interactivity and Heterogeneity for Sleep Stage Classification via Heterogeneous Graph Neural Network*. The IEEE International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), Full Paper, 02.2023.
- **Q. Li**, C. Zhang. *Continual learning on deployment pipelines for Machine Learning Systems*. The Conference on Neural Information Processing Systems (**NeurIPS**), (DMML) Workshop, 10.2022.
- **Q. Li**, R. Hashmi. *Explainable AI: Object Recognition With Help From Background*. The International Conference on Learning Representations (**ICLR**), (CSS) Workshop, 05.2022.
- **Q. Li**, O. Corin, L. Xu. *All You Need Is Cell Attention: A Cell Annotation Tool for Single-Cell Morphology Data*. The International Conference on Learning Representations (**ICLR**), (AI4PH) Workshop, 03.2021.
- J. Haimid, **Q. Li**. *Localization and visualization of defects by PCA, KMeans, Colorspace Template Matching for Additive Manufacturing*. Technical report in Siemens AG, Oral presentation on (**ICAM**) 2020.

HONORS AND SCHOLARSHIPS

The Certified AI-Empowered SAFe® 6 Product Owner / Product Manager, 2025
The Accenture Trained Architecture Foundation (TAF) Program, Certified TTA, 2023
The AWS Certified Cloud Practitioner in August, 2021
The RWTH Stipend in IDEA League Research Grant, 2020
The Siemens Statistic/Six Sigma training, Yellow Belt Certification, 2019
The Europe BEST Engineering Competition, 2nd Prize in the case study, Europe region, 2018
The Connected Campus Idea Competition (CCIC), Top 7 in Berlin. Europe region, 2017
The Undergraduate Student with Distinction of Hefei University of Technology, 2016
The International Internet of Things (ICAN) Innovation Competition, 3rd Prize in China, 2014
The International Robocup Robot Competition, 1st Prize in China, 12th Prize in Global, 2014

TECHNICAL STRENGTHS

Computer skills	Senior: Tensorflow, AWS Bedrock, Openshift, Azure, Gemini, RAG, LLMs Senior: Python, MySQL, Kubernetes, PyTorch, CI/CD, VLMs Post-training Junior: C/C++, Flask, Apache Kafka, Docker, ArgoCD, K9s
Languages skills	Native: Chinese Fluent: German (DSH-2), English (IELTS: B2)

EXTRACURRICULAR ACTIVITIES

- Top AI Camp DeeCamp2020, Sinovation Ventures and UNDP** July 2020 - August 2020
Candidate • Website.
- Completed two months of seminars and hands-on projects on real enterprise scenarios. All workshops are taught by leading scientists, such as Andrew Ng and Kaifu Lee. Rewarded as Best Team Leader, achieved 2nd place in Track 1 (AI in Public Healthcare), Top 10 out of 41 teams in five tracks.
- Siemens AG** December 2018 - November 2019
Computer Vision Working Student • Toolkits: C++, Scikit-learn, PCA
- Data acquisition, processing, aggregation and analysis for monitoring additive manufacturing process.