

# QIANG LI

Email ◊ LinkedIn ◊ Personal Website <https://qiangli.de>

## EDUCATION

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- 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

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**Accenture** Since June 2021 -  
*Specialist/Tech Lead. • Toolkits: LLM/VLM Deployment at scale, Evaluation, Retrieval optimisation, Fine-tuning (LoRA/QLoRA), RAG architecture, LangChain, PyTorch, Veeva, Portkey, Elasticsearch, SageMaker, Vertex AI, Bedrock, MLOps, Tensorflow, SAFe®* Dusseldorf, Germany

- Industry quality inspection: served as one of the Roll-Out Team Leads (1/3) for BMW **AIQX** project, responsible for resolving tasks on cloud migration and model integration, CI/CD deployment. Delivered  $\geq 30$  E2E use cases for manufacturing, involving anomaly detection, classification, segmentation, OCR, color feature analysis, and audio-to-image acoustic analysis, integrated within the Azure ecosystem. Standardized inference templates in collaboration with counterparts from over 10 automotive plants globally. The project was highly recognized by clients and featured in (CNBC).
- GenAI / Agentic AI: staffed as GenAI Sr. Data Scientist on Roche **RICI** project, leading R&D work across LLM/VLM-based video summarization, video reasoning, derivative content generation, agentic AI orchestration, and LLM personalization. Contributions were recognized by the client, project featured in (LinkedIn) and (Forbes), as well as co-authorship of 3 enterprise strategy white papers.
- Solution architect & Go-To-Marketing (GTM): 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 **19+** GenAI/Computer Vision projects across OEM, industrial and pharma sectors — winning **6 RFPs** valued over **€1M**.

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

- 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* Zurich, Switzerland

- 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 **€3,600** from RWTH and ETH Zürich.
- The paper on cell annotation 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**. CellNet software also achieved 2nd place on the **Deecamp 2020** medical track competition, with integration of over 12 SOTA neural networks and 8 morphology data sets.

**Siemens AG**

December 2018 - November 2019

*Computer Vision Working Student • Toolkits: C++, Scikit-learn, PCA*

*Aachen, Germany*

- Responsible for the development of Siemens Mindsphere Maintenance MVP Application, covering topic of data acquisition, image processing, aggregation and analysis for additive manufacturing process.
- Designed PCA, K-Mean and colorspace template matching algorithms for object detection and segmentation. Invited talk **In Process Control and In Situ Monitoring for AM** at the **ICAM 2020**.

## SELECT PUBLICATIONS

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- S. Mishra, **Q. Li**, A. Girdhar. *Are Two LLMs Better Than One? A Student-Teacher Dual-Head LLMs Architecture for Pharmaceutical Content Optimization*. **Under Review**, Full Paper, 02.2026.
- S. Mishra, **Q. Li**, S. Patil, S. Pati, B. Narendra. *Scaling Vision Language Models for Pharmaceutical Long Form Video Reasoning on Industrial GenAI Platform*. **Under Review**, Full Paper, 01.2026.
- S. Mishra, **Q. Li**, S. Patil, A. Girdhar. *From Understanding to Engagement: Personalized pharmacy Video Clips via Vision Language Models (VLMs)*. **Under Review**, Full Paper, 01.2026.
- **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.

## HONORS AND CERTIFICATIONS

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The Certified Reinvention with Agentic AI Learning Program by Accenture and Stanford HAI, 2026  
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

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<b>Technical skills</b>	Senior: Tensorflow, PyTorch, AWS Bedrock, Openshift, MLOps, RAG, Vector Search Senior: Python, Kubernetes, CI/CD, VLMs Post-training, LLM Alignment/Evaluation Junior: C/C++, Flask, Apache Kafka, Docker, ArgoCD, K9s, Pre-Sale, Resale
<b>Languages skills</b>	Native: Chinese Fluent: German (DSH-2: C1), English (IELTS: B2)