QIANG LI

Grimmstr. $40 \diamond 40235$ Düsseldorf \diamond (+49) 1511-467-9818 Email \diamond Linkedln \diamond GitHub \diamond Personal Website \diamond Blog

EDUCATION

ETH Zürich, IDEA Research Grant Student, GPA: 1.7/1.0

RWTH Aachen, M.Sc. Computer Science, GPA: 2.2/1.0

Hefei University of Technology, B.Sc. IoT Engineering, GPA: 3.6/4.0

November 2019 - August 2020

October 2017 - October 2020

September 2012 - June 2016

WORK EXPERIENCE

Accenture Since June 2021 -

Senior Analyst in Computer Vision and IT/OT

- · Delivered \geq 30 E2E customized supervised-learning solutions to a unified cloud innovation ecosystem, use cases variously from anomaly detection, object classification, semantic segmentation and optical character recognition.
- · As a RollOut Team Lead for client BMW AIQX project, responsible for resolving On-Call tickets and Jira tasks on cloud migration, integration, CI/CD deployment and evaluation from Plant. Collaborated with platform team to standardize inference template and worked with counterparts from ≥ 10 automotive plants worldwide. Delivered use cases that were published and recognized by clients and major news media outlets.
- · Headed the ASG ITOT Group's sub-offering on **Data Integration and Machine Learning**, delivering ≥ 10 pre-sale assets and offerings to OEMs, industrial, utilities, and pharma clients for **quality inspection** visual systems and **Beyond Visual Line of Sight(BVLOS) Drone show cases**.

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 as IDEA League Research Grant by RWTH and ETH Zürich.
- · The paper on cell annotation tool for single-cell morphology data, has been accepted for poster presentation at AI for Public Health Workshop and a 2-minute spotlight talk at ICLR 2021.
- · Achieved 2nd place on the **Deecamp 2020** medical track competition by CellNet Software integrating with 12 algorithms and 8 data sets.

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.
- · Responsible for the development of Siemens Mindsphere cloud-based MVP Maintenance App and embedded image processing software.
- · Designed PCA, KMean 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

- · 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), Main Track, 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 Matcthing for Additive Manufacturing. Technical report in Siemens AG, Oral presentation on (ICAM) 2020.

HONORS AND SCHOLARSHIPS

The AWS Certified Cloud Practitioner in August 2021

The RWTH Stipend in IDEA League Research Grant, 2020

The Siemens Statistic/Six Sigma training in 2019, Yellow Belt Certification

The Europe BEST Engineering Competition in 2018, 2nd Prize in the case study, Europe region

The Connected Campus Idea Competition 2017 (CCIC), Top 7 in Berlin. Europe region

The Undergraduate Student with Distinction of Hefei University of Technology in 2016

The International Internet of Things (ICAN) Innovation Competition in 2014, 3rd Prize in China

The International Robocup Robot Competition in 2014, 1st Prize in China, 12th Prize in Global

TECHNICAL STRENGTHS

Computer skills Senior: Tensorflow, AWS Cloud, Openshift, Azure Cloud

Senior: Python, MySQL, PyQt, Flask, Pytorch, CI/CD

Junior: C/C++, Kubernate, Apache Kafka, Docker, ArgoCD, K9s

Languages skills Native: Chinese

Fluent: German (DSH-2), English (IELTS: B2)

Intermediate: Korean

EXTRACURRICULAR ACTIVITIES

PayLuft Zürich Fintech Startup

February 2021 - June 2021

Computer Vision Engineer Intern • Website. Toolkits: Flask, Tensorflow, Mediapipe

· Built the core application from scratch, using FaceNet, Google Mediapipe and Egocentric HandNet for biometric feature tracking and classification.

Top AI Camp DeeCamp2020, Sinovation Ventures and UNDPJuly 2020 - August 2020 Candidate

· Completed two months of seminars and hands-on projects with all data sets from 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.

Hefei University of Technology, China

November 2013 - November 2014

Program Technical Chair, Radio broadcaster and Journalist • Relevant link

- · Interviewed with 40+ entrepreneurs and excellent leaders.
- · Published 20+ articles on social platforms, college newspapers, state-level New-Media.
- · Technical chair of university ICPC/ACM/Robocup Robot football competition.