

QIANG LI

Moränenstraß 1 ◇ 45478 Mülheim an der Ruhr ◇ (+49) 1523-628-1415
(+41) 778-142-029 ◇ Email ◇ LinkedIn ◇ GitHub ◇ <http://qiangli.de/>



EDUCATION

ETH Zürich, IDEA Research Grant Student

November 2019 - August 2020

RWTH Aachen, M.Sc Computer Science, GPA: Gut

October 2017 - October 2020

Hefei University of Technology, B.Sc IoT Engineering, GPA: Top-3 September 2012 - June 2016

PROJECT EXPERIENCE

Sinovation Ventures

September 2020 - December 2020

AI Research Intern. GitHub. Toolkits: Python, JavaScript, Django, GPT, Scrum

- Aim at the research on the countermeasures of **Bert, GPT-2, GTP-3 model**, evaluated the performance of GPT-Based model and CPM (Chinese Pretrained Models) in 10 businesses scenarios, and developed corresponding API and preliminary software models based on Huggingface transformers. Finished one technical report about industry applications of GPT-3.
- Responsible for entire backend Django server and designed API interfaces through Ajax calls to ensure smooth NLP text generation. Utilised Nginx coupled with Uwsgi to connect the online server.

ETH Zurich IMSB Prof. Dr. Manfred Claassen Group

November 2019 - August 2020

Masterand. GitHub. Toolkits: Python, PyQt, YOLO, GhostNet, FasterRCNN

- Proposed a unifying approach enabling data-driven learning of morphological characteristics, which indicate the Sezary Syndrome's presence.
- First author for paper **Cell Morphology Based Diagnosis of Cancer using Convolutional Neural Networks: CellNet**, selected by AI for Public Health Workshop mentorship program on **ICLR 2021**.
- Developed CellNet software, including 10 interfaces, 25 buttons, 10+ user prompt functions, and integrating with 12 algorithms and 8 data sets. Achieved the 2nd place on **Deecamp2020** medical track.

Siemens AG

December 2018 - November 2019

Computer Vision Working Student. Toolkits: C++, Nodejs, Scikit-learn, Pandas, Snakes, PCA

- Data acquisition, handling, aggregating, and analytics for monitoring of additive manufacturing process.
- Responsible for Siemens Mindsphere cloud-based application **Maintenance App** and embedded image processing software development.
- Designed **PCA, KMean and Colorspace Template Matching** algorithm for AM object detection and segmentation, invited talk **In-Process Control and In-Situ Monitoring for AM** on ICAM2020.

HONORS AND SCHOLARSHIPS

The RWTH Stipend in IDEA League Research Grant

The Siemens Automation meets Edge global University Challenge in 2018, 4th Prize

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 Excellent student of Hefei University of Technology in 2016

The International Internet of Things Innovation 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: Java web development with SSH Framework, Angular, Nodejs Senior: Python, MySQL, PyQt, Flask Junior: Linux system programming, Android game development
Languages skills	Native: Chinese Fluent: German(DSH-2), English(IELTS: B2) Intermediate: Korean

EXTRACURRICULAR ACTIVITIES

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

- Completed two months block seminar and project with all data sets from real enterprise scenarios. All workshops are taught by frontline scientists, such as Andrew Ng and John Hopcroft.
- Selected Track 1: Using AI to address new challenges in healthcare and public health in 2020.
- Rewarded as Best Team Leader price and Excellent Performance Team price, achieved 2nd place in track 1, Top 10% out of 41 teams in five tracks.

Leitour GmbH & feinfood.com, Germany July 2017 - October 2017
New Media Specialist

- Promoted for social media editorial, content curation on Wechat and community management.
- Conceptualised and organised 12 brand strategies campaigns.
- Increased PV (page view) and CV (client view) by 10,000 visits.

Shinyway International Educational Agent GmbH, China September 2015 - June 2016
Marketing Assistant (50%)

- Assisted manager expanding Chinese market, particularly in Anhui province.
- Co-founder of Anhui agent group, demonstrated weekly report to head office.

Hefei University of Technology, China November 2013 - November 2014
Radio broadcaster and Journalist. Relevant link

- Interviewed with 40+ entrepreneurs and excellent heads.
- Published 20+ articles in social platform, college newspaper, provincial level news media.
- Technical chair of university ICPC/ACM competition / Robocup Robot Soccer competition.

SELECT PUBLICATIONS

- **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), Workshop on AI for Public Health, 02.2021.
- 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 2021.
- Y. Zheng, **Q. Li**, L. Lan, B. Xiang, Z. Zhou, *Research on the academic model of HFUT Xuancheng campus, based on the innovative perspective of offsite academic model of higher education*. In *Journal Management Observer*, ISSN: 1674-2877, pp. 92-96, 2016(13).