

QIANG LI

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EDUCATION

ETH Federal Institute of Technology, Zürich
IMSB Group, IDEA Research Grant student

November 2019 - August 2020

RWTH Aachen University, Germany
Master of Science, Computer Science
Focus on Machine Learning and Computer Vision

October 2017 - October 2020

Hefei University of Technology, China
Bachelor of Science in Engineering, Internet of Things Engineering

September 2012 - June 2016
GPA: 3.6/4.0

PROJECT EXPERIENCE

Sinovation Ventures
AI Cutting-edge Research Intern. GitHub

September 2020 - December 2020

- According to the given subdivision direction, conducting systematic comparison research and finished modular technical report about industry application of GPT-3.
- 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.
- 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
Masterand. GitHub

December 2019 - August 2020

- 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**, in preparation for AI for Public Health Workshop 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
Computer Vision Working Student

December 2018 - December 2019

- 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.

RWTH Aachen Media Computing Group
HCI Intern. Relevant link

April 2018 - October 2018

Fabricated the Soft Robotics in Interactive Fab Terrarium Project.

Hefei University of Technology Robocup Robot Lab
Team Leader of 3D Simulation. Relevant link

May 2013 - September 2015

- Launched the 3D Robocup robot football team in the lab, analysis of NAO Robot gait with Kalman Filter.
- Won the International Robocup Robot Competition in 2014, 1st Prize in China, 12th Prize in Global.

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

TECHNICAL STRENGTHS

Computer skills	Senior: Java web development with SSH Framework and Angular Nodejs Senior: Python, SQL Database System
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. Relevant link

- 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 prize and Excellent Performance Team prize, 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 Soccer Competition.

SELECT PUBLICATIONS

- **Q. Li**, J. Haimid, *Localization and visualization of defects by PCA, KMeans, Colorspace Template Matching for Additive Manufacturing*. Tech Report, Siemens AG, 06.2019.
- 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).