QIANG LI

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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

PayLuft Zürich Fintech Startup Since February 2021 -

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

· Built the core application from scratch as the full stack developer using FaceNet, Google Mediapipe and Egocentric HandNet for **biometric feature tracking and classification**. Achieved a classification accuracy of 99.38% on the Labeled Faces in the Wild benchmark, 97.66% on the Hand Palm PolyU II dataset.

· Responsible for Linux server deployment and Flask web application development, data collection and database construction. GitLab all the technical details and report directly to the CEO and Co-founder. Attend development meetings, including investment meetings. Assist in the decision-making of a new technical hire (intern or non-intern).

Sinovation Ventures September 2020 - December 2020

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

· Aimed at the research on **Bert, GPT-2, GTP-3 model**, evaluated the performance of GPT-Based model and CPM (Chinese Pretrained Models) in 10 business scenarios, and developed corresponding API and preliminary software models based on Huggingface Transformers.

· Finished one technical report about industrial applications of GPT-3, and responsible for the entire backend Django server and designed API interfaces to ensure smooth NLP text generation. Utilized 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 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.

· First author for paper **All You Need is Cell Attention: A Cell Annotation Tool for Single-cell Morphology Data**, has been accepted by AI for Public Health Workshop for poster presentation, accompanied by 2 minute spotlight talk 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 2nd place on the **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 of block seminars and projects 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 public healthcare topics in 2020.
· Rewarded as Best Team Leader price 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: Part-time

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

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 on social platforms, 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, 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 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).