Qi-Long Liu

qilong-kirov.liu@connect.polyu.hk

Google Scholar ☿ ORCID ⓘ GitHub ☊ LinkedIn 🔗 Blog Site ☛

EDUCATION

The Hong Kong Polytechnic University   Sep 2021 – Present
Master of Philosophy, School of Fashion and Textiles   *Hong Kong, China*

Shenzhen University   Sep 2017 – Jul 2021
Bachelor of Engineering, School of Biomedical Engineering   *Shenzhen, Guangdong, China*

AWARDS & HONORS

The Hong Kong Polytechnic University Research Studentship
The Hong Kong Polytechnic University, 2021 - 2023

Star of Double Innovations (Group Award)
Third Prize, Shenzhen University

National College Students Biomedical Engineering Innovation Design Competition
Third Prize, The Teaching Steering Committee of Biomedical Engineering in Colleges and Universities of the Ministry of Education, 2019

National College Students Electronic Design Competition in Guangdong Province
Third Prize, The Organizing Committee of the Guangdong Province Division of the National Undergraduate Electronic Design Competition, 2019

PUBLICATIONS

Under Review

Qi-long Liu, Kit-Lun Yick, Yue Sun, and Joanne Yip. An exploratory semi-automatic approach for dense tracking of breast motion in 4d. *PLoS One*, 2023

Journal

Li-Ying Zhang, **Qi-Long Liu**, Kit-Lun Yick, Joanne Yip, and Sun-Pui Ng. Analysis of diabetic foot deformation and plantar pressure distribution of women at different walking speeds. *International Journal of Environmental Research and Public Health*, 20(4):3688, February 2023

Qiu-Qiong Shi, Pui-Ling Li, Kit-Lun Yick, Jiao Jiao, and **Qi-Long Liu**. Influence of contoured insoles with different materials on kinematics and kinetics changes in diabetic elderly during gait. *International Journal of Environmental Research and Public Health*, 19(19):12502, September 2022

Conference

Qi-Long Liu, Kit-Lun Yick, Kam-Ching Chan, Sin-Tung Wong, and Sun-Pui Ng. Sports bra pressure: Effect on core body temperature and comfort sensation. In *Ergonomics In Design*. AHFE International, 2022

OPEN-SOURCE PROJECTS *(SELECTED)*

qilong-liu.vercel.app Minimalist personal blog site based on Next.js and Tailwind, 2023

pedarProbe Data analysis framework for pedar plantar pressure sensor, 2022

mobjTOB Self-customized Manim mobjects for visualizing Machine Learning framework (e.g. MLP, CNN, and Transformer), 2022

Beamer-LaTeX-Themes Customized beamer templates based on SINTEF Presentation templates for PolyU, SZU, and more, 2022

SPECIALIZED SKILLS

Languages English (fluent); Mandarin (native); Cantonese (native)

Programming Languages Python (seasoned); Matlab (intermediate); JavaScript (intermediate); C/C++ (basic); Shell Scripting (basic);

Technical Stacks Data Processing & Visualization with Python (seasoned); LLM Application with LangChain & OpenAI API (intermediate); Machine Learning with PyTorch (basic); Web development with Next.js (basic); Desktop/Mobile Application with Electron/Reactive Native (basic); Finite Element Modelling (basic)

Tool Set Documentation with Sphinx & ReadTheDocs (experienced); Version Control with Git & GitHub (experienced); Typesetting with LaTeX and Tikz (experienced)

WORK EXPERIENCE

Shenzhen Base of The Hong Kong Polytechnic University   Dec 2020 – Jun 2021
Student Assistant (part-time)   *Shenzhen, Guangdong, China*
Shenzhen Zhishixinyun educational technology LTD   Nov 2019 – Mar 2020
Software Engineer (internship)   *Shenzhen, Guangdong, China*