Changhao Li

Portfolio: owenchanghao.github.io/
Github: github.com/owenchanghao

Email: chli9281@uni.sydney.edu.au
Mobile: +86 136-0270-1057
Male, July 2000

EDUCATION

- **University of Sydney** — Sydney, Australia
  Bachelor of Advanced Computing - Data Science and Finance; WAM: Credit — *Feb 2019 - Dec 2022*
  Courses: *Data Structures and Algorithms, Artificial Intelligence, Human-in-the-Loop, Databases*
  Exchange: *Fudan University (2021 Spring Semester), Shanghai, China*

- **University of Pennsylvania** — Philadelphia, USA
  Pre-college Programme; GPA: 3.6 — *Oct 2018 - Jan 2019*
  Courses: *Academic English, Philadelphia Today, Programming in Python*

PROJECTS

- **ATM Simulator**: A Java-based automated teller machine model
  - Negotiated Scrum methods and used them (Sprint cycle, daily standing meeting etc) with teammates.
  - Applied agile development tools such as Git & GitHub, JUnit-5, Jenkins, JaCoCo throughout the project.

- **SARS-CoV-2 vs 2020-21 Macroeconomics**: An RStudio & Shiny-based Data Visualization Dashboard §
  - Accumulated raw data from sources like Our World in Data, Investing.com and did data wrangling.
  - Utilized RStudio and Shiny App online data visualization platform and updated it on shinyapp.io.

- **ESNEIP**: a Watch-based Social Network Expansion and Interaction Platform for Elders in China
  - Applied HCI principles and methodologies, such as contextual inquiry, into project's ideation and prototyping processes.

INTERNSHIPS

- **JD.com (Nasdaq: JD)** — Beijing, China
  Quantitative Analyst — *Dec 2021 - Feb 2022*
  - **Web Scrapping**: Developed a web scrapping application in Python, using Selenium and BeautifulSoup, to gather certain public information from People's Bank of China Official Websites (36 websites, both central and provincial).
  - **Quantitative Reporting**: Used Python to count daily/weekly statistical figures to support decision-making.
  - **2022 JD.com - China Central Television Gala Project**: Monitored negative statements about JD.com on social media platforms using internal big data platform to improve interactive mobile game quality on Chinese New Year Eve.

- **Joyy (Nasdaq: YY)** — Guangzhou, China
  Data-driven Operating Trainee — *Aug 2020 - Dec 2020*
  - **Moving Excel into RStudio Project**: Developed weekly data analysis RMarkdown tool with RStudio to substitute traditional Excel method, accelerated data processing speed from 3 hours to 3 seconds per week.
  - **Positive Psychology at Work**: Organized "Positive Psychology at Work" Programme, 83% of members' emotion and work efficiency improved after participating.

SKILLS SUMMARY

- **Languages:** R, Python, SQL, Bash, Java, HTML
- **Tools:** Anaconda, Jira Agile, GitHub, LaTeX
- **Platforms:** Linux, Windows, macOS, Alibaba Cloud
- **Offices:** Zotero, Word, Excel, PowerPoint, OneNote, Adobe Premier, iMovie
- **HCI Methodologies:** Think-aloud, Cognitive Walkthrough, Gestalt Psychology, Contextual Inquiry, Prototyping
- **Maths and Stats:** Hypothesis Testing, Regression, Linear Algebra, Calculus, Discrete Mathematics

CERTIFICATES

- **National Computer Rank Examination (NCRE)**: Level II - MySQL Database (Dec 2020)
- **Japanese Language Proficiency Test (JLPT)**: N1 (Dec 2019)

HONOURS AND SCHOLARSHIPS

- Vice Chancellor's Global Mobility Scholarship ($1500, Nov 2020)
- St.Paul's College Bursary ($7350, Dec 2019)

ACADEMIC REFEREE

- **Jonathan Spreer** — Unit Coordinator
  Discrete Mathematics for Computation, 2018 Semester 2, University of Sydney — *jonathan.spreer@sydney.edu.au*