

Still a graduate CV, not a researcher CV yet

Mengze Li

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EDUCATION

PhD, The Chinese University of Hong Kong 2024 - now

- Advisor: Prof. Liu Lin
- Research Interests: Cryosphere, Remote Sensing, Deep Learning

MEarthSci, University of Oxford, University College 2020 - 2024

- Grading: Strong Second Class Honours First Division
- Modules: Remote Sensing, Natural Resources, Geological Processes, Environmental Geophysics, Climate, Mantle Dynamics, Planetary Chemistry, Vector Calculus, Statistics, MATLAB Modelling etc.

Anglo-Chinese Junior College (ACJC), Singapore 2018 - 2019

- A Levels: 5 distinctions in Mathematics, Physics, Chemistry, Geography and General Paper

ACADEMIC EXPERIENCE

Masters Project, Oxford, UK Jul 2023 - Jun 2024

- Supervisors: Dr. Alexander Lipp, Dr. Simon Stephenson and Prof. Robert Hilton
- A thesis on the role of dynamic topography on global continental weathering and the carbon cycle
- Used Python and QGIS to estimate the chemical weathering rate and quantify carbon fluxes from the global dynamic topographic map, lithological map and tectonic map

Summer Research Intern, Tongji University, Shanghai, China Jul 2023

- Prepared and conducted an experiment that monitored the effects of changes in water turbidity and salinity on the penetration of light of different wavelengths, and investigated the consequences on underwater imaging and image restoration through programming codes

Extended Essay, Oxford, UK Nov 2022 - Apr 2023

- A review paper on the effects of "Atlantification" of the Barents Sea on glacier retreating, ocean dynamics and phytoplankton activities

Independent Mapping Project, Snowdonia, Wales, UK Apr 2022 - Jan 2023

- Researched the logistical and geological feasibility of potential mapping areas
- Mapped a 15km² area over a month, including taking geological measurements and field sketches
- Completed a literature review, a geological map, stratigraphic columns and a 6,000-word report

Singapore Young Physicists' Tournament (SYPT), Singapore Sep 2018 - Feb 2019

- Conducted literature reviews on Newton's Cradle decay and popsicle chain patterns
- Designed and conducted physics experiments to collect and analyze data with teammates
- Presented the results in PowerPoints to the panel and conducted discussions with competitors

RESEARCH SKILLS

- Python & MATLAB: modelling, data analysis, graphing
- Field Work: mapping, rock measurement, sample collection, field sketching
- Laboratory Work: experiment design, planning, conduction and data collection
- GIS
- Inkscape
- Literature Review
- Stratigraphical Analysis

AWARDS & HONOURS

- **Hong Kong PhD Fellowship Scheme** 2024
- Offered the **INSPIRE PhD Scholarship** by the University of Southampton and the **Sound.AI PhD Scholarship** by Sorbonne University 2024
- **Exhibitioner Award** by the University College of Oxford 2021 - 2023
- Offered the **Science and Technology Scholarship** by the National University of Singapore 2020
- Offered the **CN Yang Scholars Programme** by the Nanyang Technological University 2020

- **Teoh Siew Kim Book Prize Geography** and **Scholastic Merit Award** by ACJC 2019
- **Silver Award, 4th Place** in SYPT, awarded by the Singapore Institute of Physics 2019
- **Silver Award**, Singapore and Asian School Math Olympiad 2016
- **JM3(SM1) Singapore Government Scholarship** 2015

STUDENT PROJECT/POSITIONS OF RESPONSIBILITY

Oxford Chinese Student Association - Art and Sports, Representative Oct 2021 - Jun 2022

- Hosted online Friends-Meeting events during Covid; more than 60 attendees
- Organised several hiking trips around Oxford; registrations at a time exceeded 80
- Organised online Art and Talent exhibition; more than 30 registers

CamExpress - O-Level English Tutor, Remote Aug - Sep 2020

- Designed and taught online English lessons to 30 students (aged 16 to 18)

Volunteer Teacher - EZhuang, China Dec 2019

- Prepared science lessons and class props for primary-school students in a village school
- Taught lessons, marked homework and dealt with emergencies in collaboration with friends

EXTRACURRICULAR INTERESTS

- Pokemon
- Badminton
- Swimming
- Choir