

# YUCHENG LIN

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## Education

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### Durham University

*Doctor of Philosophy in Physical Geography*

Supervisors: Pippa L. Whitehouse and Sarah A. Woodroffe

Sep. 2019 – 2023

Durham, UK

### Australian National University

*Master of Earth Sciences (Advanced) with Commendation*

Supervisor: Anthony Purcell

Aug. 2017 – Jun. 2019

Canberra, Australia

### Chang'an University

*Bachelor of Resource Exploration Engineering*

Supervisor: Huixia Chao

Sep. 2013 – Aug. 2017

Xi'an, China

## Awards & Fundings

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PALSEA ECR funding (€600)	2022
WCRP Sea Level Conference ECR funding (€2,000)	2022
International Glaciological Society fellowship for Karthaus Summer School (€800)	2022
University College Funding (£300)	2022
AGU Outstanding Student Presentation Award (one oral and one poster)	2021,2022
Durham University Geography Department Postgraduate Funding (£500 each)	2020,2022
University College Senior Common Room Funding (£100)	2021
Durham University-China Scholarship Council Joint Scholarship (£110,000)	2019 - 2023
SCAR Early Career Scientist Travel Grant (£1,500)	2019
Chang'an University Academic Scholarship (¥2,000)	2016

## Publications

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**Lin, Y.**, Whitehouse, P.L., Valentine, A.P. A deep-learning based glacial isostatic adjustment emulator (under preparation).

**Lin, Y.**, Whitehouse, P.L., Hibbert, F.D., Woodroffe, S.A., Hinestrosa, G., Webster, J.M. Relative sea-level response to mixed carbonate-siliciclastic sediment loading along the Great Barrier Reef. *Earth and Planetary Science Letters* (under review).

Jones, R.S., Johnson, J.S., **Lin, Y.**, Mackintosh, A.N., Sefton, J.P., Smith, J.A., Thomas, E.R. and Whitehouse, P.L. Stability of the Antarctic Ice Sheet during the pre-Industrial Holocene. *Nature Reviews Earth & Environment*, 2022.

**Lin, Y.**, Hibbert, F.D., Whitehouse, P.L., Woodroffe, S.A., Purcell, A., Shennan, I. and Bradley, S.L. A reconciled solution of Meltwater Pulse 1A sources using sea-level fingerprinting. *Nature communications*, 2021. (Highlighted by [Durham University Research News](#))

## Academic Referees

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Prof. Pippa L. Whitehouse (PhD main supervisor) - [pippa.whitehouse@durham.ac.uk](mailto:pippa.whitehouse@durham.ac.uk)

Dr Sarah A. Woodroffe (PhD co-supervisor) - [s.a.woodroffe@durham.ac.uk](mailto:s.a.woodroffe@durham.ac.uk)

Dr Fiona D. Hibbert (Collaborator) - [fiona.hibbert@york.ac.uk](mailto:fiona.hibbert@york.ac.uk)

## Teaching Experience

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• GEOG1081 Physical Geography	2019-2021
• GEOG1251 Understanding Earth's Principles	2019-2020
• GEOG1232 Introduction to Geographical Research	2021-2023
• GEOG2661 Climate Change: Geographical Perspectives	2020-2021
• GEOG2571 Reconstructing Environmental Change	2020-2021
• GEOG2462 Scientific Research in Geography	2021-2023
• GEOG3191 Sea-Level Change and Coastal Evolution	2019-2023

## Relevant Courses and Training

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Karthaus Summer School on Ice Sheets and Glaciers in the Climate System - Karthaus	Jun. 2022
SUERC Short Course on Geochronology - SUERC, Glasgow	May. 2022
IQUA Bayesian Statistics ECR Workshop - Queen's university belfast, Belfast	Apr. 2022
EGU data curation and management workshop - Institut de Physique du Globe de Paris, France	Nov. 2019
Glacial isostatic adjustment training school - Lantmäteriet, Sweden	Aug. 2019

## Technical Skills

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**Programming Languages:** Python, Matlab, R, Linux Shell, Fortran 95

**Modelling Skills:** Glacial isostatic adjustment modelling, Bayesian statistical modelling, Machine learning, High-performance computing

**Software Package:** QGIS, Google Earth, Blender (for Scientific Visualization), Adobe Illustrator, Microsoft Office

**Frameworks:** Github, WordPress

**Languages:** English (fluent), Mandarin Chinese (native)

## Invited Presentations

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International Quaternary Webinar, UMass Amherst	Oct. 2021
Geography Seminar Series, The University Of Sheffield	Nov. 2021

## Conference Presentations

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Lin, Y., Whitehouse, P.L., Valentine, A.Pl. A deep-learning based glacial isostatic adjustment emulator. *PALSEA annual meeting 2022* (Singapore, 2022.07)

Lin, Y., Whitehouse, P.L., Hibbert, F.D., Woodroffe, S.A., Hinestrosa, G., Webster, J.M. Relative sea-level response to mixed carbonate-siliciclastic sediment loading along the Great Barrier Reef. *WCRP sea level meeting 2022* (Singapore, 2022.07)

Lin, Y., Whitehouse, P.L., Hibbert, F.D., Woodroffe, S.A., Hinestrosa, G., Webster, J.M. Relative sea-level response to mixed carbonate-siliciclastic sediment loading along the Great Barrier Reef. *QRA annual meeting 2022* (Sheffield, UK, 2022.05)

Lin, Y., Whitehouse, P.L., Hibbert, F.D., Woodroffe, S.A., Hinestrosa, G., Webster, J.M. Relative sea-level response to mixed carbonate-siliciclastic sediment loading along the Great Barrier Reef. *AGU 2021 fall meeting (OSPA Award, New Orleans, USA, 2021.12)*

Lin, Y., Hibbert, F.D., Whitehouse, P.L., Woodroffe, S.A., Purcell, A., Shennan, I. and Bradley, S.L. Inverting the magnitude and sources of Meltwater Pulse 1A by fingerprinting sea-level constraints. *AGU fall meeting 2020 (OSPA Award, online, 2020.12)*

Lin, Y., Hibbert, F.D., Whitehouse, P.L., Woodroffe, S.A., Purcell, A., Shennan, I. and Bradley, S.L. Inverting the magnitude and sources of Meltwater Pulse 1A by fingerprinting sea-level constraints. *PALSEA annual meeting 2020* (Online, 2020.10)

Lin, Y., Hibbert, F.D., Whitehouse, P.L., Woodroffe, S.A., Purcell, A., Shennan, I. and Bradley, S.L. Inverting the magnitude and sources of Meltwater Pulse 1A by fingerprinting sea-level constraints. *QRA annual meeting 2020* (Leeds, UK, 2020.01)

## Activities and Services

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**Reviewer** | *Scientific Journals* **2021-**

- Quaternary Science Reviews
- Nonlinear Processes in Geophysics
- Scientific Reports
- The Geological Society Books

**Volunteer** | *Durham University Volunteering Program* **2021-**

- Major organiser for fortnightly reading group for Sea-Level-Ice and Climate research cluster, Department of Geography, Durham University (2020-2022)
- Participating the Durham County litter picking project (2021)

- Distributing epidemic prevention materials for CSSA (2021)
- Masters student representative, Research School of Earth Sciences, Australian National University (2018-2019)

**Student Volunteer** | *AGU Fall Meeting 2020*

**2020**

- Monitoring three online Q&A sessions.
- Participating virtual exhibition hall, learning with specific product and communicating with company representatives.

**Industry Experiences**

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**Director Assistant** | *Fujian Global Mining Industry Co., Ltd*

**Nov. 2017 - Jan. 2018**

- Supervised the production line of hydrofluoric acid, including daily examination of instruments wastage extent, raw material inspection (e.g., fluorite and concentrated sulfuric acid).
- Participated in decision-making for the fluorite exploration line and method in Shaxian area, supervised the drilling projects.

**Research Associate** | *Fujian Surveying and Mapping Institute*

**Mar. 2017 - Jun. 2017**

- **Project title:** Regional geological mineralization survey on Yiyuan Cu-Au deposit in Fujian Province. Supervised by Dr Zilong Wu.
- Implemented for the Government of Fujian Province, in collaboration with the Chang'an University as a part of a graduate project.
- Result of this project is published in the report '2016 -2020 Overall Planning of Mineral Resources in Fujian Province' by Fujian Provincial Department of Natural Resources.