

Apr 6, 2021

JING CI NEO

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EDUCATION

University of Michigan, Ann Arbor (USA) 2024 (expected)
Ph.D. Pre-candidate, Earth and Environmental Science
Seismology Specialization

Nanyang Technological University (Singapore) 2019
B.Sc. Environmental Earth Systems Science
Geoscience Specialization
CN Yang Scholars Program

RESEARCH EXPERIENCE

Doctoral Researcher

Department of Earth and Environmental Science, University of Michigan 2019 – Present
◆ Supervisors: Professor Yihe Huang
◆ Applying the frequency-difference method to earthquake backprojection to improve the accuracy of the results at higher frequencies

Undergraduate Researcher

Overseas Final Year Project, University of Michigan Jun – Dec 2018
◆ Supervisors: Professors Yihe Huang and Shengji Wei
◆ Quantified the relationship between the mainshock rupture area and aftershock zone area
◆ Found that aftershock zone is slightly larger than the rupture area, and expands in time
◆ Demonstrated that Coulomb stress change is positively correlated to aftershock zone area

Research Attachment, Nanyang Technological University Feb – May 2017
◆ Supervisors: Professor Sylvain Barbot and Dr. James Moore
◆ Modified the Green's functions of the strain inversion to remove isotropic strain, and verified the method with synthetic tests
◆ Produced a more accurate model of the Earth's viscosity in the Kumamoto region

PUBLICATIONS

J. C. Neo, Huang, Y. Yao, D., Wei, S. (2020). Is the Aftershock Zone Area a Good Proxy for the Mainshock Rupture Area? *Bulletin of the Seismological Society of America*, 111 (1), 424-438

Ramos, M.D., **Neo, J. C.**, Thakur P., Huang, Y. and Wei, S. (2020). Stress Changes on the Garlock Fault during and after the 2019 Ridgecrest Earthquake Sequence. *Bulletin of the Seismological Society of America*, 110, 4, 1752 – 1764

AWARDS & HONORS

- Best Student Presentation** 2020
Seismological Society of America, Eastern Section Meeting
- Best Student Presentation** 2019
Seismological Society of America, Eastern Section Meeting
- Nanyang Scholarship** 2015 – 2019
NTU's foremost undergraduate scholarship

GRANTS & FELLOWSHIPS

- Rackham Conference Travel Grant, \$200** 2020
Rackham Graduate School, UoM
- Scott Turner Award, \$1585** 2019
UM Dept. of Earth and Environmental Sciences
◆ Ranked in top 30% of proposals

TEACHING EXPERIENCE

- Earth 296, Earth and Env. Science Around Us** *Summer 2020*
Graduate Student Instructor, UoM
◆ Planning of curriculum and syllabus, some lab design, grading, and uploading of quizzes. Held 2-hour discussion sections and office hours
- ES3002, Structural Geology and Tectonics** *Winter 2019*
Undergraduate Teaching Assistant, NTU
◆ Graded assignments, assisted lab sessions, led a class demonstration and held office hours

SERVICE & OUTREACH

- Organizing Committee Member** 2020-21
Michigan Geophysical Union, University of Michigan
◆ Recruited and coordinated judges, moderated talks, participated in overall planning

Graduate Student Representative

2020-21

Geoclub, University of Michigan

- ◆ Attend faculty meetings, contribute ideas from a graduate student's perspective, convey information to graduate student body

CONFERENCE PRESENTATIONS

Oral Presentations

- Neo, J. C., W. Fan, Y. Huang, D. Dowling, "Frequency-Difference Backprojection of Earthquakes", Seismological Society of America 2021
- Neo, J. C., W. Fan, Y. Huang, D. Dowling, "Frequency-Difference Backprojection of Earthquakes", Seismological Student Workshop 2020
- Neo, J. C., W. Fan, Y. Huang, D. Dowling, "Frequency-Difference Backprojection of Earthquakes", AGU Fall Meeting 2020
- Neo, J. C., W. Fan, Y. Huang, D. Dowling, "Frequency-Difference Backprojection of Earthquakes", SSA Eastern Section Meeting 2020
- Neo, J. C., Y. Huang, D. Yao, S. Wei, "Are Aftershocks a Good Proxy for the Mainshock Rupture Area?", SSA Eastern Section Meeting 2019

Poster Presentations

- Neo, J. C., Y. Huang, D. Yao, S. Wei, "Are Aftershocks a Good Proxy for the Mainshock Rupture Area?", AGU Fall Meeting 2018

ADDITIONAL SKILLS

Technical Skills: Seismic Analysis Code (SAC), Generic Mapping Tools (GMT), ArcGIS

Programming Languages: MATLAB (Proficient), Python (Intermediate)

Languages: English (Native) and Mandarin (Intermediate)