

Nov 4, 2020

## 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*

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

## HONORS & AWARDS

- 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

- 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", 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 (Proficient)