

Madeleine M. Tan

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| Education | University of Michigan, Ann Arbor, MI B.Sc. Earth and Environmental Sciences (Honors) B.Sc. Interdisciplinary Physics | 2022 |
| Research Appointments | Research Assistant, U-M Materials Science & Engineering Dept. (Appointment cont. from <i>Physics Summer Research Fellow</i>) REU Intern, Univ. Hawai'i at Mānoa Dept. of Earth Sciences | 05/22 - 02/23 06/21 - 07/21 |
| Selected Work History | Physical Scientist, U.S. Geological Survey Staff Geophysicist, Green Geophysics <i>USArray Magnetotelluric Array</i> U-M Physics Department · Grader · Proctor | 06/23 - 02/23 - 05/23 Winter 2022 Fall 2021, 2022 |
| Awards & Honors | NAGT/USGS Cooperative Summer Fellowship Program <i>Placement: USGS Geological Hazards Science Center</i> E.Z. Manos Scholarship Recipient, Michigan Basin Geological Society | 2023 2022 |
| Unrefereed Publications | 2. M. Tan. <i>Receiver function analysis of the Michigan Basin</i> , University of Michigan Senior Honors Thesis (2022). 1. M. Tan, H. Janiszewski. <i>Receiver function analysis of the magmatic plumbing structure beneath Okmok volcano</i> , University of Hawai'i at Mānoa REU Report (2021). | |
| Presentations | 5. Talk: Geological Society of America North-Central Section Meeting (2023), <i>Receiver function analysis of the Michigan Basin</i> 4. Poster: University of Michigan Physics Department Summer Research Fellows Symposium (2022), <i>Ion beam analysis of GaN samples with surface treatments</i> 3. Poster: AGU Fall Conference (2021), <i>Using receiver functions to image the magmatic plumbing structure beneath Okmok volcano</i> 2. Talk: Council on Undergraduate Research REU Symposium (2021), <i>Receiver function analysis of Okmok volcano</i> 1. Poster: University of Hawai'i at Mānoa Summer Undergraduate Research Program Symposium (2021), <i>Receiver function analysis of Okmok volcano</i> | |
| Field Work | USArray Magnetotelluric Array, <i>South and Central U.S.</i> Geology Methods Field Course, <i>Wyoming, U.S.</i> | 02/23 - 05/23 07/22 |
| Professional Affiliations | Early Career Professional Member, AIPG Student Member, Michigan Basin Geological Society | 2023 - 2021 - |

**Additional
Activities**

Internal President, Environmentorship Program (student org.)
Book Club Facilitator, U-M Women in Science and Engineering

2021 - 2022
Summer 2021

Abbreviations:

U-M, *University of Michigan*

REU, *Research Experiences for Undergraduates*

USGS, *U.S. Geological Survey*

AIPG, *American Institute of Professional Geologists*