

BIOGRAPHICAL SKETCH

IDENTIFYING INFORMATION:

NAME: Huang, Mong-Han

POSITION TITLE: Associate Professor

PRIMARY ORGANIZATION AND LOCATION: Department of Geology, University of Maryland, College Park, College Park, MD, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE	RECEIPT DATE	FIELD OF STUDY
University of California, Berkeley, Berkeley, CA, United States	PHD	05/2014	Earth and Planetary Science
National Taiwan University, Taipei, Taiwan	MS	05/2006	Geology
National Taiwan University, Taipei, Taiwan	BS	06/2005	Geology, Physics

Appointments and Positions

2023 – present	Associate Professor, Department of Geology, University of Maryland, College Park, College Park, MD, United States
2017 – 2023	Assistant Professor, Department of Geology, University of Maryland, College Park, College Park, MD, United States
2015 – 2017	Postdoc Fellow, NASA Jet Propulsion Laboratory, Pasadena, CA, United States
2014 – 2015	Assistant Analyst, University of California, Berkeley, CA, United States
2009 – 2014	Graduate Student researcher/Instructor, University of California, Berkeley, CA, United States

Products

Products Most Closely Related to the Proposed Project

1. Huang, M.-H., Hudson-Rasmussen B, Burdick S, Lekic V, Nelson M, Fauria K, Schmerr N. Bayesian Seismic Refraction Inversion for Critical Zone Science and Near-Surface Applications. *Geochemistry, Geophysics, Geosystems*. 2021 May 25; 22(5):- . Available from: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020GC009172> DOI: 10.1029/2020GC009172
2. Amatya, P., Scheip, C., Deprez, A., Malet, J.-P., Slaughter, S.S., Handwerger, A.L., Emberson, R., Kirschbaum, D., Jean-Baptiste, J., Huang, M.-H., Clark, M., Zekkos, D., Huang, J.-R., Pacini, F., and Boissier, E. 2023. Learnings from rapid response efforts to remotely detect landslides triggered by the August 2021 Nippes earthquake and Tropical Storm Grace in Haiti, *Natural Hazards*. <https://doi.org/10.1007/s11069-023-06096-6>
3. Handwerger A, Huang, M.-H., Jones S, Amatya P, Kerner H, Kirschbaum D. Generating landslide density heatmaps for rapid detection using open-access satellite radar data in Google Earth Engine. *Natural Hazards and Earth System Sciences*. 2022 March 09; 22(3):753-773. Available from: <https://nhess.copernicus.org/articles/22/753/2022/> DOI: 10.5194/nhess-22-753-2022
4. Hudson Rasmussen B, Huang, M.-H., Hahm W, Rempe D, Dralle D, Nelson M. Mapping Variations in Bedrock Weathering With Slope Aspect Under a Sedimentary Ridge-Valley System Using Near-Surface Geophysics and Drilling. *Journal of Geophysical Research: Earth Surface*. 2023 July 03; 128(7).

5. Huang, M.-H., Fielding E, Liang C, Milillo P, Bekaert D, Dreger D, Salzer J. Coseismic deformation and triggered landslides of the 2016 M_w 6.2 Amatrice earthquake in Italy. *Geophysical Research Letters*. 2017 February 04; 44(3):1266-1274. Available from: <https://agupubs.onlinelibrary.wiley.com/doi/10.1002/2016GL071687> DOI: 10.1002/2016GL071687

Other Significant Products, Whether or Not Related to the Proposed Project

1. Huang, M.-H., Bürgmann R, Freed A. Probing the lithospheric rheology across the eastern margin of the Tibetan Plateau. *Earth and Planetary Science Letters*. 2014 June; 396:88-96. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S0012821X14002295> DOI: 10.1016/j.epsl.2014.04.003
2. Pedrazas M, Hahm W, Huang, M.-H., Dralle D, Nelson M, Breunig R, Fauria K, Bryk A, Dietrich W, Rempe D. The Relationship Between Topography, Bedrock Weathering, and Water Storage Across a Sequence of Ridges and Valleys. *Journal of Geophysical Research: Earth Surface*. 2021 April 28; 126(4):- . Available from: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020JF005848> DOI: 10.1029/2020JF005848
3. Handwerker A, Huang, M.-H., Fielding E, Booth A, Bürgmann R. A shift from drought to extreme rainfall drives a stable landslide to catastrophic failure. *Scientific Reports*. 2019; 9(1):- . Available from: <http://www.nature.com/articles/s41598-018-38300-0> DOI: 10.1038/s41598-018-38300-0
4. Handwerker A, Booth A, Huang, M.-H., Fielding E. Inferring the Subsurface Geometry and Strength of Slow-Moving Landslides Using 3-D Velocity Measurements From the NASA/JPL UAVSAR. *Journal of Geophysical Research: Earth Surface*. 2021 March 18; 126(3):- . Available from: <https://onlinelibrary.wiley.com/doi/10.1029/2020JF005898> DOI: 10.1029/2020JF005898
5. Huang, M.-H., Udell Lopez K, Olsen K. Icequake-Magnitude Scaling Relationship Along a Rift Within the Ross Ice Shelf, Antarctica. *Geophysical Research Letters*. 2022 May 24; 49(10):- . Available from: <https://onlinelibrary.wiley.com/doi/10.1029/2022GL097961> DOI: 10.1029/2022GL097961

Synergistic Activities

1. 2023–present: National Academy of Sciences, Committee on Solid Earth Geophysics (COSEG).
2. 2023–present: Earthscope PI Instrumentation Advisory Committee (PIIAC). This committee sets priorities and applications for the Earthscope Consortium.
3. 2022–2023: Geodetic Infrastructure Advisory Committee for the University NAVSTAR Consortium (UNAVCO).
4. 2021–2023: Quality Assurance Advisory Committee (QAAC) for Incorporated Research Institutions for Seismology (IRIS): QAAC is an Advisory Committee that reports to the Data Services, Portable Array Seismic Studies of the Continental Lithosphere (PASSCAL), and Global Seismographic Network (GSN) Standing Committees.
5. 2021: Program committee director of the Geological Society of Washington (GSW). I organize and coordinate the speaker program for GSW.