SOLMAZ MOHADJER

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CURRENT POSITIONS

- Assistant Professor, University of Central Asia, Khorog, Tajikistan, since Aug 2020
- Visiting Assistant Professor, University of Tübingen, Tübingen, Germany, since Oct 2020

EDUCATION

- Ph.D., Geosciences, University of Tübingen, Germany, 2019
- M.S., Geosciences, University of Montana, Missoula, MT, 2008
- B.S., Geological Sciences, University of Washington, Seattle, WA, 2004

AWARDS AND HONORS

- European Geosciences Union's Higher Education Teaching Grant, 2020
- European Geosciences Union's Science-Policy Pairing Scheme Award, 2019
- International Symposium on Geo-Disaster Reduction (Kyrgyzstan) Best Presentation Award, 2019
- European Geosciences Union's Public Engagement Grant, 2016
- Innovation Fund Sustainable Development, University of Tübingen, 2016
- PARSA Community Foundation Grant (Earthquake Education in Central Asia), 2011
- Bertha Morton Scholarship, University of Montana, 2008-2009 academic year
- Space Grant Undergraduate Research Program, University of Washington, 2004
- Zesbaugh Scholarship, University of Washington, 2003-2004 academic year
- Lindenberg Mobility Grant for International Studies, University of Washington, 2003
- Mary Gates Leadership Grant, University of Washington, 2002-2003 academic year
- Society of Exploration Geophysics Foundation, 2001

RESEARCH POSITIONS

- Postdoctoral Associate, Geosciences, University of Tübingen, Germany, (2017-2020)
- Ph.D. Researcher, Geosciences, University of Tübingen, Germany, (2013 2016)
- Graduate Research Assistant, University of Montana, Missoula, MT, U.S.A. (2006 2008)
- Research Geologist, United States Geological Survey, Anchorage, Alaska, U.S.A., (2004 2006)

NON-ACADEMIC POSITIONS

- Natural Hazard Risk Model Consultant, Focus Humanitarian Assistance, Kabul, Afghanistan (2012/2013)
- Natural Hazard Scientist, Aga Khan Development Network, Dushanbe, Tajikistan, (2012)
- Program Director, Teachers Without Borders, Seattle, WA, U.S.A, 2009 2011
- Project Coordinator, University of Washington's Pipeline Project, Seattle, WA, U.S.A., (2001 2004)

SERVICES

- University of Central Asia, Academic Integrity Committee, 2020 present
- University of Central Asia, Faculty Lecture Series, 2020 present (organizer)
- European Geosciences Union Outreach Committee, 2020 present
- European Geosciences Union Higher Education Focus Group, 2020 present
- University of Tübingen's Geosciences PhD/Postdoc Representative, 2020 present
- European Union Parliament, Brussels, Belgium, Nov 2019 (science adviser)
- United Nations Forum on Science, Technology and Innovation, NY, May 2019 (delegate)
- Planet Press, European Geosciences Union, 2015-2019 (reviewer)

Conference Session convener/panelist

European Geosciences Union, Vienna, Austria:

- Science for Policy, webinar panelist, Apr 2020
- Debunking myths and fake news: how geoscientists fight misinformation and false claims, panelist, Apr 2018
- Geoscience and the Sustainable Development Goals, co-convener, Apr 2016
- Natural Hazards Education, Communication & Science-Policy-Practice Interface, co-convener, Apr 2015-2016
- Natural Hazard Teaching Demonstrations, co-convener, Apr 2015

Workshops organized

- Climatic and Tectonic Natural Hazards in Central Asia (final workshop), Online, Sep 2020
- Climatic and Tectonic Natural Hazards in Central Asia (annual meeting), Tübingen, Germany, May 2019
- Remote Sensing, GFZ Potsdam, Germany, Apr 2014

PRESENTATIONS (*invited)

Conference Presentations

- 1. American Geophysical Union, Online, Dec. 2020, "Along-strike variations in cosmogenic derived denudation rates in the Western Tian Shan, Tajikistan"*
- 2. European Geosciences Union, Online, Apr. 2020, "How can natural hazard scientists enhance their contribution to building sustainable and resilient societies?"
- 3. EU Parliament, Brussels, Belgium, Nov. 2019, "Impact of sea-level rise on coastal communities of the Baltic Sea*
- 4. 17th International Symposium on Geo-Disaster Reduction, Issyk Kul, Kyrgyzstan, Aug 2019, "Geohazards Database for Central Asia"*
- 5. European Geosciences Union, Vienna, Austria, Apr. 2019, "Central Asia geohazards database"
- 6. European Geosciences Union, Vienna, Austria, Apr. 2018, "Sensitivity of rockfall frequency-magnitude and wall retreat rates to observation"
- 7. European Geosciences Union, Vienna, Austria, Apr 2016, "Comparison of fault slip rates: Insights from a Quaternary fault database for Central Asia"
- 8. American Geophysical Union, Fort Lauderdale, FL, May 2008, "Preliminary geodetic results from a sparse Central Asian geodetic network*

Departmental Seminars and Colloquium

- 9. UCA Public Lecture Series, Online, Oct 2020, "Sensitivity of Rockfall frequency-magnitude and wall retreat rates to observation duration from TLS measurements"
- 10. Institute of Geology, Earthquake Engineering and Seismology Lectures, Dushanbe, Tajikistan, Oct 2018, "Central Asia Quaternary fault database"
- 11. University of Liège, Geo-risk and Environment Colloquium, Liège, Belgium, Jun 2018, "Under pressure:

- Continental Collision and Earthquake Awareness"*
- 12. University of Freiburg, Soil-Water-Rock, Earth and Environmental Sciences Colloquium, Freiburg, Germany, May 2016, "Comparison of fault slip rates from a Central Asia fault database"*

Education & Public Outreach Talks

- 13. European Geosciences Union, Online, Apr. 2020, "Paired teaching approach to earthquake education: a cross-country comparison between Dushanbe, Tajikistan and London, United Kingdom"
- 14. University of Oxford's Grand Challenges Seminar, May 2019, "Natural hazards: Preparing today to protect tomorrow"*
- 15. United Nation's Forum on Science, Technology and Innovation, New York, May 2019. "Earth Sciences Education for Resilient Communities in Central Asia"*
- 16. European Geosciences Union, Vienna, Austria, Apr. 2019, "Overcoming challenges in earthquake education: a case study from Tajikistan"
- 17. 17th International Symposium on Geo-Disaster Reduction, Issyk Kul, Kyrgyzstan, Aug 2019, "From research to action: Linking geohazards science and preparedness in schools*
- 18. European Geosciences Union, Vienna, Austria, Apr 2018, "Using paired-teaching for earthquake education in schools"
- 19. TEDx Stuttgart, Germany, Sep 2016, "How to disarm earthquakes"*
- 20. Geology for Global Development, London, UK, Oct 2016, "Translating geohazards research into potentially life-saving practices in Central Asia"*
- 21. Himalayan Karakorum Tibet Workshop and International Symposium on Tibetan Plateau, University of Tübingen, Germany, Aug 2013, "Lessons Learned: From advancements in Earth sciences to practical geohazards awareness"*
- 22. University of Cambridge, Sedgwick Club, Cambridge, UK, Nov 2011, "Earthquake Education in Central Asia"*
- 23. Harvard Graduate School of Education Seminar Series, Cambridge, MA, Oct 2010, "The rise and role of NGOs in International Development"*
- 24. European Science Education Research Association Conference, Istanbul, Turkey, Sep 2009, "Learning Science through Emergency Education"
- 25. American Geophysical Union, San Francisco, CA, Dec 2008, "Earthquake Education in Tajikistan: An assessment of perceptions, preparedness, and a pilot science-based curriculum"

TEACHING

University courses

- University of Central Asia: "Environmental Impact & Risk Assessment" (Spring 2021); "Geodynamics & Structural Geology" (Fall 2020); "Sediments, Stratigraphy, and Hydrocarbon" (Fall 2020)
- University of Tübingen: Applied Tectonics and Surface Processes (Fall 2016, co-developed course curriculum)
- University of Montana: "Introduction to Geology Lab" (academic year 2006-2007)
- University of Washington: "*Inner Pipeline Education Seminars*" (2001-2004, EDUC 401 seminars including: General Issues in K-12 Education; Refugee and Immigrant Communities; Math and Science in K-12 Education)

K-12 Professional Development Workshops

- Aga Khan Development Network: *Earthquake Education* teacher training in 2 schools in Gujarat, India (2012)
- Teachers Without Borders: *Earthquake Education and Science Inquiry* teacher training workshops in Sichuan, China (3 multi-day workshops with >100 participants, 2009-2011), Port-au-Prince, Haiti (2011), Dushanbe/Khorog in Tajikistan (2011) and Shughnan in Afghanistan (2011)

PUBLICATIONS

In review or prep

- **Mohadjer, S.**, Mutz, S.G., Kemp, M., Gill, S., Ischuk, A., and Ehlers, T.A., 2020 (*in review*). Using paired teaching for earthquake education in schools. Geoscience Communication
- **Mohadjer, S.**, Ratschbacher, L., Ehlers, T.A., Abdulov, S., Gadoev, M., Oimahmadov, M., Schaller, M., 2020 (*in prep*). Along-strike variations in cosmogenic derived denudation rates in the Western Tian Shan, Tajikistan. Geomorphology

Peer-reviewed

- 1. Gill, J.C., Taylor, F.E., Duncanm, M., **Mohadjer, S**., Budimir, M., and Mdala, H., 2020 (in press). How can natural hazard scientists enhance their contribution to building sustainable and resilient societies? Natural Hazards and Earth System Sciences
- 2. **Mohadjer, S.**, Ehlers, T.A., Nettesheim, M., Ott, M.B., Glotzbach, C., and Drews, R., 2020. Temporal variations in rockfall and rockwall retreat rates in a deglaciated valley over the last 11 ka. Geology, v. 48(6), pp. 594-598
- 3. Perry, M., Kakar, N., Ischuk, A., Metzger, S., Bendick, R., Molnar, P., and **Mohadjer, S.**, 2018. Little Geodetic Evidence for Localized Indian Subduction in the Pamir-Hindu Kush of Central Asia, Geophysical Research Letters, v. 46, pp. 109-11
- 4. **Mohadjer, S.**, Ehlers, T.A., Bendick R., Mutz, S.G., 2017. Review of GPS and Quaternary fault slip rates in the Himalaya-Tibet Orogen, Earth-Science Reviews, 174, pp. 39-52
- 5. Dietze, M., **Mohadjer, S.**, Turowski, J. M., Ehlers, T. A., and Hovius, N., 2017. Seismic monitoring of small alpine rockfalls validity, precision and limitations, Earth Surf. Dynam. 5, 653-668
- 6. **Mohadjer, S.**, Ehlers, T. A., Bendick, R., Stübner, K., and Strube, T., A Quaternary fault database for central Asia, 2016, Natural Hazards and Earth System Sciences, 16, 529-542, doi:10.5194/nhess-16-529-2016.
- 7. Ischuk, A., Bendick, R., Rybin, A., Molnar, P., Khan, S.H., Kuzikov, S., **Mohadjer, S.**, Saydullaev, U., Ilyasova, Z., and Schelochkov, G., Kinematics of the Pamir and Hindu Kush regions from GPS geodesy, 2013, Journal of Geophysical Research Letters- Solid Earth, Vol. 118, 1-9 PP
- 8. **Mohadjer, S.**, Bendick, R., Ischuk, A., Kuzikov, S., Kostuk, A., Saydullaev, Lodi, S., Kakar, D.M., Wasy, A., Khan, M.A., Molnar, P., Bilham, R., and Zubovich, A.V., 2010, Partitioning of India-Eurasia convergence in the Pamir-Hindu Kush from GPS measurements, Geophysical Research Letters, Vol. 37, L04305, 6 PP.
- 9. **Mohadjer, S.**, Bendick, R., Halvorson, S., Saydullaev, U., Hojiboev, O., Stickler, C., Adam, Z., 2010, Earthquake Emergency Education in Dushanbe, Tajikistan, Journal of Geoscience Education, v. 58, n. 2, p. 86-94.

USGS Open-File Reports

- 10. Wilson, F.H., Blodgett, R.B., Blome, C.D., **Mohadjer, S.**, Preller, C.C., Klimasauskas, E.P., Gamble, B.M., and Coonrad, W.L., 2017, Bedrock geologic map of the northern Alaska Peninsula area, southwestern Alaska: U.S. Geological Survey Scientific Investigations Map 2942, pamphlet 43 p., scale 1:350,000, https://pubs.er.usgs.gov/publication/sim2942.
- 11. Wilson, F.H., Hults, C.P., **Mohadjer, S.**, Coonrad, W.L., 2013, Reconnaissance Geologic Map for the Kuskokwim Bay Region of Southwest Alaska, U.S. Geological Survey Scientific Investigations Map 3100, pamphlet 46 p., 1 sheet, scales 1:500,000, 1:300,000, 1:250,000, https://pubs.usgs.gov/sim/3100/.
- 12. Wilson, F.H., **Mohadjer, S.**, Labay, K.A., and Shew, N.B., 2006, Digital datasets for geologic map by Wilson, F.H., Blodgett, R.B., Blome, C.D., Mohadjer, S., Preller, C.C., Klimasauskas, E.P., Gamble, B.M., and Coonrad, W.L.: Preliminary Integrated Geologic Map Databases for the United States: Digital Data for the Reconnaissance Bedrock Geologic Map for the Northern Alaska Peninsula Area, Southwest Alaska: U.S. Geological Survey Open-File Report 2006-1303, on-line only. https://pubs.er.usgs.gov/publication/ofr20061303
- 13. Wilson, F.H., **Mohadjer, S.**, Labay, K.A., and Shew, N.B., 2006, Digital datasets for the geologic map by Wilson, F.H., Mohadjer, S., and Grey, D.M.: Preliminary Integrated Geologic Map Databases for the United States: Digital Data for the Reconnaissance Geologic Map of the Western Aleutian Islands, Alaska: U.S. Geological Survey Open-File Report 2006-1302, on-line only. http://pubs.usgs.gov/of/2006/1302

- 14. Wilson, F.H., **Mohadjer, S.**, and Grey, D.M., in press, Reconnaissance geologic map for the Western Aleutian Islands, Alaska: U.S. Geological Survey Scientific Investigations Map SIM-2941, 31 manuscript pages, various scales, in press (USGS Director's approval 1/3/08). (This is the formal publication to accompany the above Open-File Report).
- 15. Shew, N.B., Peterson, C.S., Grabman, N., **Mohadjer, S.**, Grunwald, D., Wilson, F.H., and Hults, C.K., 2006, Preliminary Integrated Geologic Map Databases for the United States: Digital Data for the Geology of Southwest Alaska by George E. Gehrels and Henry C. Berg: U.S. Geological Survey Open-File Report 2006-1290, on-line only. http://pubs.usgs.gov/of/2006/1290/

Book

16. Benoit, Peter. The Haitian Earthquake of 2010. Content Consultant, **Mohadjer**, **S**., United Kingdom: Children's Press, 2011. Print.