




GUI GUENTHER AKŞİT

pronounced: GHEE GUN-thur AHK-shit

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EDUCATION

- Expected 2024 **Ph.D.**, Earth Sciences
University of Oregon – Eugene, OR
Advisor: Meredith Townsend Co-Advisor: Kathy Cashman
Dissertation: "Silicic dike propagation at stratovolcanoes: Emplacement mechanisms and magma transport controls at Summer Coon volcano, CO"
- 2017 – 2019 **B.S.**, Earth and Space Sciences: Geology, Departmental Honors
University of Washington – Seattle, WA
Undergraduate Research Advisors: Megan Mueller and Alexis Licht
- 2009 – 2011 Graduate Coursework: Anthropology and Middle Eastern Studies
Columbia University – New York, NY
- 2005 – 2009 **B.A.**, Anthropology: Cultural
Ohio University – Athens, OH
Undergraduate Research Advisor: Haley Duschinski
Completed one semester of Arabic language and culture study in Amman, Jordan through the CIEE

TEACHING EXPERIENCE

- Graduate Teaching Initiative Certificate Program (2021-Present)**, *University of Oregon*
Participating in program to develop pedagogical skills and engagement with teaching by completing set of core requirements, attending workshops and seminars, and working with faculty mentor
- Field Studies in Classic Mapping (ERTH 406/606: 2023)**, *University of Oregon*, Teaching Assistant
Assisted in field teaching of field observations and mapping techniques during 2-week structure field course in SW Montana. Helped facilitate end-of-course field trip to Glacier National Park.
- Structural Geology (GEOL 352, ERTH 350/351/352: 2020, 2023)**, *University of Oregon*, Lab Instructor
Taught lab sessions and held office hours to aid students in understanding lab and course materials. Assisted with optional field trip to Death Valley and required day field trip mapping folds.
- Field Geology: Oregon (2022)**, *Sternberg Science Camps, Fort Hays State University*, Instructor
Developed and conducted 2-week high school summer field camp on field geology and volcanology in Oregon and Washington. Students learned mapping techniques, physical volcanology sampling and analysis methods.

- Volcanology (ERTH 410/510: 2022)**, *University of Oregon*, Teaching Assistant
Held office hours to aid students with lab and final project assignments. Graded and provided feedback on labs. Presented guest lecture on intrusive volcanism and dikes.
- Paleomagnetism (ERTH 410/510: 2022)**, *University of Oregon*, Teaching Assistant
Organized course website and oversaw class communication. Assisted in field excursions to Oregon coast with students. Presented guest lecture on paleomagnetism for volcanological applications.
- Exploring Earth Environments (ERTH 102: 2021)**, *University of Oregon*, Head Teaching Assistant and Lab Instructor
Organized and stewarded 4 TAs and 14 lab sections for large intro course. Led 2 individual lab sections remotely. Coordinated video production of field-project for digital instruction.
- Rocks of Fire (2020)**, *Sternberg Science Camps, Fort Hays State University*, Instructor
Developed and led 2-week virtual high school summer camp on volcanology, and igneous and metamorphic petrology.
- Mechanical Earth (GEOL 455/555, ERTH 455/555: Winter 2020, Fall 2020)**, *University of Oregon*, Teaching Assistant
Held office hours to aid students with weekly homework assignments. Graded undergraduate and graduate level work. Presented on 1999 Izmir earthquake to class.
- Earth Materials (ESS 212: 2019)**, *University of Washington*, Assistant Teaching Assistant
Assisted with providing help and feedback on student homework assignments and activities in flipped classroom.
- Senior Supplemental Instruction Leader (2017-2019)**, *Cascadia College, Bothell WA*
Organized and facilitated out-of-class group study sessions. Served as SI Leader for Calculus 1 and 2, and Engineering Physics 1 and 2. Led trainings, observed SI sessions, and acted as mentor to new leaders
- Professional Tutor, CRLA Certified (2016-2019)**, *Cascadia College, Bothell WA*
Tutored students in algebra through differential equations, chemistry, and physics. Assisted with training and mentoring new tutors.

WORKSHOPS AND SHORT COURSES

- 2023 **Modelling volatile behaviour in magmas**, *IAVCEI 2023 Scientific Assembly*
Facilitators: Ery Hughes, Shuo Ding, Geoff Kilgour, Kayla Iacovino, Penny Wieser
- 2022 **Grading and Feedback Strategies for GE Instructors**, *UO Teaching Engagement Program*
Neurodivergent Instructors Striving for Neuro-inclusive Classes, *UO Teaching Engagement Program*
Applying Virtual Microscopy in Geoscience, *GSA Connects 2022, Short Course 526B*
How to create your own 3D video-game-style geologic field excursion, *GSA Connects 2022, Short Course 505*
Instructors: Mattathias Needle, Juliet Crider, Jacky Mooc, John Francis Akers
- 2021 **Teaching Quantitative Structural Geology**, *GSA Connects 2021, Short Course 523*
Instructor: David Pollard
Your Thesis is Software: Tools for the Geoscientist to Help Write Better Code, from Version Control to Test-Driven Development, *GSA Connects 2021, Short Course 506*
Instructors: Socorro Dominguez Vidana, Simon Goring

RESEARCH AND FIELD EXPERIENCE

2019 – Present: Ph.D. Research – Summer Coon volcano, Del Norte, CO

Organized and conducted multiple, multi-week field excursions to Del Norte, CO. Collected oriented samples, recorded macroscopic flow data, and mapped silicic dikes at Summer Coon. Utilized SEM imaging, ImageJ image analysis, helium pycnometry and analytical modeling.

Summer 2023: Teaching Assistant, Dillon, MT (ERTH 406) – University of Oregon

Aided in teaching geologic mapping techniques in SW Montana.

Winter 2022: Field and Teaching Assistant, Coos Bay, OR – University of Oregon

Acted as field assistant for collection and documentation of paleomagnetism samples from Coos Bay, Oregon. Instructed students on proper field techniques.

Summer 2020: Field Assistant, Wallowas, OR– University of Oregon

Assisted in the collection of dike samples and mapping of the Chief Joseph Dike swarm during backcountry fieldwork for the Karlstrom group in Wallowas, OR.

Summer 2019: NAGT-USGS Intern – Cascades Volcano Observatory, Vancouver, WA

“Volcanic hazards in the Pacific Northwest – Explosive Eruptions at Mount St. Helens and Glacier Peak.”

Acted as field assistant for backcountry fieldwork at Glacier Peak, Washington recording tephra chronostratigraphy, as well as sampling and prepping pumice for XRF analysis. Compiled and digitized data to produce tephra isopach and isopleth maps in ArcGIS.

2018 – 2019: Undergraduate Research Project - University of Washington

“Geological evolution of western Anatolia during the Late Cretaceous and Early Paleogene”

Studied the evolution of central Anatolia through detrital zircon geochronology in the Central Sakarya Basin and identifying sediment provenance through sandstone petrography. Utilized grain-counting via optical microscopy, zircon separation via Methyl Iodide and ICP-MS Spectroscopy.

Summer 2018: Field Camp, Dillon, MT (ESS 400)- University of Washington

Six-week field course covering stratigraphy, sedimentology, structural geology, mapping, and fluvial and glacial geomorphology.

2009 – 2012: Graduate Research - Columbia University

“Iraqi Turkmen migrant experience of Turkish nationalism and citizenship”

Conducted interviews with Turkmen migrants from Northern Iraq in Istanbul on migration and experiences of inclusion and exclusion in Turkish nationalism.

2008 – 2009: Senior Capstone Project – Ohio University

“50 years at Wihdat: a lifetime spent as a Palestinian refugee”

Conducted ethnographic research at Wihdat Refugee Camp in Amman, Jordan. Studied refugee memory of the Nakba and refugee experience in Jordan.

PRESENTATIONS

Aksit, G., Townsend M., & Harp, A. (2023). *Evolution of magma properties and flow directions during dike emplacement at Summer Coon Volcano, CO*. GSA Connects 2023 Meeting, Pittsburgh PA, Geological Society of America (Oral)

Aksit, G., Townsend M., Giachetti, T., & Harp, A. (2023). *Much ado about rhyolite: Mechanisms for rhyolitic dike emplacement from field observations and microtextural analysis at Summer Coon volcano, CO.* GSA Connects 2023 Meeting, Pittsburgh PA, Geological Society of America (Poster)

Miller, M., **Aksit, G.**, & Cuomo, A. (2023). *Using common technologies to increase accessibility and inclusivity in a field geology mapping course.* GSA Connects 2023 Meeting, Pittsburgh PA, Geological Society of America (Oral)

Townsend, M., **Aksit, G.**, & Harp, A. (2023). *Loaded down: understanding how volcano cone growth impacts dike propagation from integration of fracture models and geologic data.* GSA Connects 2023 Meeting, Pittsburgh PA, Geological Society of America (Poster)

Aksit, G.G., Townsend, M.R., & Harp, A.G. (2023). *Silicic dike propagation at stratovolcanoes: A petrofabric analysis to determine magma transport directions at Summer Coon volcano, CO, USA.* IAVCEI 2023 Scientific Assembly, Rotorua, New Zealand, International Association of Volcanology and Chemistry of the Earth's Interior (Oral)

Aksit, G., Townsend M., & Harp, A. (2022). *Rhyolite Rising: Textural Evidence of High-Silica Magma Dynamics Recorded in Dikes at Summer Coon Volcano, CO.* GSA Connects 2022 Meeting, Denver CO, Geological Society of America (Oral)

Aksit, G., Townsend M., & Harp, A. (2021). *The Life Magmatic at Summer Coon: Determining the Influence of Magma Composition and Physical Properties on Transport Directions within Stratovolcanoes from Field Observations of a Radial Dike Swarm.* AGU 2021 Fall Meeting, New Orleans LA, American Geophysical Union (eLightning Presentation)

Aksit, G., Townsend M., & Harp, A. (2021). *Investigating the Evolution of Magma Properties During Dike Propagation at Summer Coon Volcano, CO.* GSA Connects 2021 Meeting, Portland OR, Geological Society of America (Oral)

Aksit, G., Mueller, M., & Licht, A. (2019). *Geological evolution of western Anatolia during the Late Cretaceous and Early Paleogene.* University of Washington 2019 Undergraduate Research Symposium (Poster)

Aksit, G. (2009). *50 years at Wihdat: A lifetime spent as a Palestinian refugee.* Ohio University Research and Creative Activity Expo Poster Presentation (Poster)

PUBLICATIONS

Mueller, Licht, A., Campbell, C., Ocakoğlu, F., **Akşit, G.G.**, Métais, G., Coster, P.M.C., Beard, K.C., & Taylor, M.H. (2022). Sedimentary Provenance from the Evolving Forearc-to-Foreland Central Sakarya Basin, Western Anatolia Reveals Multi-Phase Intercontinental Collision. *Geochemistry, Geophysics, Geosystems* : G3, 23(3). <https://doi.org/10.1029/2021GC010232>

AWARDS, HONORS AND GRANTS

2022	Geological Society of America Grant, \$2,500
2021	Jay M. McMurray Award, University of Oregon, \$ 1,100
2019	Mary Gates Research Scholar and Scholarship, \$5,000
2018 – 2019	University of Washington Earth and Space Sciences Honors Program
2007	Ohio University Provost Undergraduate Research Fund Award, \$1,500

SERVICE AND OUTREACH

2022 – Present	DuckREFS (Resources for Easing Friction and Stress) Trained in conflict resolution and mediation strategies to work with graduate students to resolve interpersonal and professional conflicts.
2019, 2022 – Present	Earth Sciences Graduate Teaching Fellows Federation (GTFF) Union Steward Elected as a representative of the Earth Sciences graduate students for the graduate union.
2022 – 2023	Earth Sciences Graduate Student Faculty Representative Elected as the representative of the Earth Sciences graduate students for faculty meetings and communication. Acted as student voice in faculty meetings. Organized graduate lunches and review meetings during tenure track faculty search.
2023	Guest Lecture for EARTH 410/510: Materials Characterization on: <i>“Petrofabric and Magma Property Characterization to Determine Silicic Dike Propagation Controls at Summer Coon Volcano, CO”</i>
2023	Public Presentation at UO Women in Graduate Studies Science Slam: <i>“The Ballad of the Sleeping Dragons: Magma Transport at Summer Coon volcano”</i>
2023	Reviewer- Geology
2023	Invited Public Talk for UO for Humanity: Earthquake in Turkey and Syria Event, University of Oregon: <i>“Geography and Geology of Southwest Türkiye and Northwest Syria”</i>
2022	Graduate Student Assistant, UO Geology Club Spring Break Trip: Death Valley Coordinated logistics and helped organize students for week trip to Death Valley. Aided with course in Winter 2022 to prepare students for the trip.
2022	Event Supervisor, Oregon Science Olympiad Supervised and judged the Oregon State Science Olympiad "It's About Time" event.
2020 -2022	Graduate Student Event Coordinator, UO Earth Sciences Prospective Graduate Student Weekend Coordinated Prospective Weekend events and arrangements with faculty, both in-person and online. Organized graduate only luncheons.
2021	Volunteer, University of Oregon Field Camp, Volcanology Section Volunteered and assisted with University of Oregon's field camp in central Oregon. Assisted in leading students in field and teaching sampling techniques and field methods.
2019	UO SPICE (Science Program to Inspire Creativity and Excellence) Program Open house night volunteer to engage elementary students in Earth Sciences.

MENTORING

Mentor for Graduate and Undergraduate Students, Inclusivity and Gender Diversity in Earth and Atmospheric Sciences (IgDEAS) group, UO Earth Sciences

Sarah Schneider, 2022, Undergraduate Lab Assistant

Madeline Bruce, 2021-2022, Undergraduate Lab Assistant and Field Assistant

Kendall John, 2021, Undergraduate Field Assistant