Nicole M. Aikin Curriculum Vitae

Department of Earth and Space Sciences University of Washington 4000 15th Ave NE, Seattle, WA 98195

EDUCATION

EDUCATION Ph.D. Farth and Space Sciences	In Drogrado
Ph.D., Earth and Space Sciences University of Washington	In Progress 4.0, <i>Cum GPA</i>
Thesis and Research Interests: Interactions between metamorphism (petrolog (structural geology), and partial melting in determining the evolving (strength) of the middle crust during mountain-building collisions Stay tuned for interesting work on some beautiful rocks! Advisor: Dr. Cailey Condit	y), deformation
B.S., Earth Science	Dec 2019
University of California, Santa Barbara	3.82 Cum GPA
High Honors in Earth Sciences, Geology Emphasis Sr. Honors Thesis: "Reconnaissance Geochronology of the Ohio Range, South Mountains, Antarctica: Insights into Crustal Evolution of Neoproterc Paleozoic Ross Orogen Magmatism from In-Situ Zircon U-Pb and Hf Analyses" Adviser: Dr. John Cottle	ozoic to
Transfer Coursework, Diablo Valley College – Pleasant Hill, CA	2014-2017, 2019 3.75 Cum GPA
RESEARCH	
GRANTS AND FELLOWSHIPS National Science Foundation Graduate Research Fellowship - \$138,000	2021-2026
Seattle Chapter ARCS Foundation Graduate Research Fellowship - \$17,500	2021-2024
UW ESS Anthony Qamar Endowed Memorial Fund 2023- \$3,000	2023
UW ESS Anthony Qamar Endowed Memorial Fund 2022- \$3,000	2022
GSA Student Research Grant - \$2,500	2022
Geological Society of America, On to the Future Student Scholarship Grant - \$500	2019
GRADUATE HONORS 'Is This Real Life?' Award University of Washington ESS Research Gala Award for best explanation of a real-world problem	2023
New Ideas, Educative Horizons University of Washington ESS Research Gala Award for best DEI-related poster	2023
Rookie of the Year Award University of Washington ESS Voted by my peers to be the most valuable community member in my incoming 1 st year cohort to show their appreciation for all I do both academically and interpersonally	2022
UNDERGRADUATE AWARDS	
UCSB Earth Science Outstanding Graduating Senior – \$1000	2019
UCSB Earth Science Field Award – \$2,000	2019
UCSB Earth Science Distinction in the Major	2019
UCSB Earth Science Outstanding Academic Achievement	2019
UCSB Earth Science Robert M. Norris Prize in Field Geology – \$500	2018
Coast Geological Society Pacific Section American Association for Petroleum	2018

Geosciences Undergraduate Scholarship Award - \$1,000

PUBLICATIONS

Chloë Bonamici, Cailey B. Condit, Victor E. Guevara, **Nicole M. Aikin**, Michael L. Williams, Karl E. Karlstrom (*in review*). How melts can strengthen the continental crust: pegmatites of the Grand Canyon. *Geology*.

naikin@uw.edu @nicoliobacon @tectonicole

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CONFERENCE PRESENTATIONS

CONFERENCE PRESENTATIONS		
Aikin, Nicole, Condit, Cailey; Williams, Michael L.; Bonamici, Chloe E.; Mulligan, Suzanne R.;	Aikin, Nicole, Condit, Cailey; Williams, Michael L.; Bonamici, Chloe E.; Mulligan, Suzanne R.;	
Karlstrom, Karl: "Timing is Everything – in the right context: monazite petrochronology of the Grand		
Canyon's Upper Granite Gorge reveals the timescales of orogenesis". In: AGU Annual meeting (San		
Francisco, CA). Planned December, 2023.		
Aikin, Nicole, Condit, Cailey; Williams, Michael L.; Karlstrom, Karl: "Constraining Timescales of		
Orogenesis: Monazite petrochronology of the Grand Canyon's Upper Granite Gorge". In: Gordon F		
Conference on Geochronology - Timing, Tempo and Drivers of Lithospheric Evolution (Mt. Snow,		
Dover, VT). August 2023. Poster.		
Aikin, Nicole, Condit, Cailey; Williams, Michael L.; Karlstrom, Karl: "Constraining Timescales of	•	
Orogenesis: Monazite petrochronology of the Grand Canyon's Upper Granite Gorge". In: Gordon F		
Seminar, Geochronology – Early Career Seminar (Mt. Snow, West Dover, VT). August 2023. Post		
Aikin, Nicole, Condit, Cailey; Williams, Michael L.; Karlstrom, Karl: "Monazite Petrochronology		
the Lifecycle of an Orogen: Example from the Upper Granite Gorge, Grand Canyon". In: GSA Cor		
Section meeting (Reno, NV). May 2023. Talk.		
Nicole M. Aikin, William F. Hoover, Cailey B. Condit. "Boots on the Ground: Going Beyond Land	ł	
Acknowledgements". In: AGU Fall Meeting 2022 (Chicago, IL). December 2022. Poster.	-	
LABORATORY EXPERIENCE		
Graduate Research - Umass Electron Microprobe / SEM Facility	2022-2023	
Quantitative microanalysis, characteristic X-ray Mapping (compositional		
mapping) and imaging via wavelength dispersive spectrometry on Cameca SX-		
100 Electron Microprobe. In-situ elemental analyses of geochronometers		
(monazite and xenotime) and imaging via WDS and electron backscatter using		
the Cameca SX-Ultrachron Electron Microprobe.		
Independent Research Assistant – Earth Research Institute, UC Santa Barbara		
A	2017 - 2019	
Target mineral preparation and imaging via cathodoluminescence on FEI	2017 - 2019	
Quanta 400f SEM and in-situ isotopic analyses of geochronometers using a Nu		
Plasma HR MC-ICPMS and a Nu Plasma 3D MC-ICPMS.		
FIELD EXPERIENCE		
Grand Canyon Basement Field Forum – University of Washington	2021	
Two-week rafting trip through the Grand Canyon (280 river miles) organized by		
collaborators, Dr. Mike Williams, University of Massachusetts, Amherst and Dr. K	larl	
Karlstrom, University of New Mexico to sample, study, and learn about the Preca		
basement rocks exposed along the Colorado River Corridor - Ph.D. dissertation fi		
San Francisco Bay Area – TRC Environmental Solutions, Inc.	2019-2021	
Site hazard characterization related to environmental consulting work experience.		
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Northern Schell Creek Range – University of California, Santa Barbara	2019	
Six-week field camp: geologic mapping and structural analysis focusing on under	U U	
geologic and tectonic evolution of the region through constraining fault kinematic		
timing of deformation; relative timing and stratigraphy of volcanic eruptions; and	relative	
timing and rates of sedimentary deposition.		
Rainbow Basin and Owl Canyon - University of California, Santa Barbara	2019	
Spring break field camp: Geologic mapping, structural analysis, and tectonic inter	pretation of	
the Miocene Barstow Formation and surrounding units.	1	
TEACHING AND MENTORING		
Teaching Assistant - UW ESS GeoClub 2023 Spring Break Trip	March 2023	
Co-taught a group of 11 UW undergraduate students on geology of basin and range		
region and cultural heritage on a week-long field excursion to Arizona and the		
e e e		
Grand Canyon.	2020 2021	
Intern Coordinator – TRC Environmental Solutions, Inc.	2020 -2021	
Conducting interviews, hiring, training, mentoring, and managerial oversight of three	ee aspiring	
environmental consultants through TRC's internship program.		

2018 - 2019

environmental consultants through TRC's internship program. **Undergraduate Student Mentor –** University of California, Santa Barbara

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Training and oversight of laboratory research methodologies for standard mineral separation
techniques (e.g. crushing, sieving, hydrodynamic density separations, picking, and mounting).Peer Tutor - Learning Center, Diablo Valley College English Department2016 - 2017

Private mentorship appointments and drop-in tutoring to develop reading, writing, grammar, and study skills for students learning English as a second language.

WORK EXPERIENCE

Project Geologist – TRC Environmental Solutions, Concord, CA 2019 - 2021 Environmental consulting experience focusing on geologic and hydrogeologic characterization, risk management, and remediation, including: collection of soil, soil vapor, groundwater, and surface water samples; data manipulation and preparation of reports; and presentations to various government and private-sector clients, including California Environmental Protection Agency Regulatory entities.

SERVICE

VOLUNTEER POSITIONS	
Diversity Coordinator - Geochronology Division Board of Directors	2019 - Present
Geological Society of America	
Indigenous Ally & Activist - Heron's Nest Duwamish Repatriation Project	2022 - Present
University of Washington, Dept. of Earth and Space Sciences	
Informal GRFP Application Mentor – Using my experience to successfully assist peers	2022 - Present
through the NSF GRFP application process. Successes: Jessica Ghent, 2022	
(UWashington). Current 2023 mentees: Sofie Johnson (UWashington), Isabel Koran	
(Princeton), Nicole L. Ferrie (UT Austin)	
Minerals and More Instructor – Rock'n'Out K-12 Outreach Program	2022 - Present
University of Washington, Dept. of Earth and Space Sciences	
Peer Mentor – ESS Peer Mentoring Program	2022 - Present
University of Washington, Dept. of Earth and Space Sciences	
Committee Member- ESS Diversity Equity & Inclusion Committee	2022 - Present
University of Washington, Dept. of Earth and Space Sciences	
Committee Member – ESS Student Research Gala	2022 - Present
University of Washington, Dept. of Earth and Space Sciences	
Coordinator – ESS Grad Nominated Speaker	2022 - Present
University of Washington, Dept. of Earth and Space Sciences	
Discussion Leader - Joint Grad and PostDoc URGE Pod and JEDI Reading Group	2021 - 2022
University of Washington, Dept. of Earth and Space Sciences	
Co-Founder, Discussion Leader – Collaborative Change Initiative	2020 - 2021
TRC Environmental Solutions, Inc.	
PROFESSIONAL PRESENTATIONS	
Invited Panelist - SZ4Grad's Webinar Discussion:	2023
"DEI in Subduction Zone Research"	
Session Convener – GSA Annual Meeting 2022 in Boulder, CO	2022
"T28. Integrative Field Rheology for the Investigation of Tectonic Systems"	
Environmental Consultant, Technical Support - Contra Costa County Public Forum:	2020
"Keller Canyon Forensic Audit: Assessment of Potential Inappropriate Disposal of	
Waste Material from Former Hunters Point Naval Shipyard at Keller Canyon Landfill	"
Invited Panelist – Geological Society of America's GeoCareers Webinar:	2020
"From GSA Student Representative to Professional: The Importance of Being Proactive	e
in our Society"	

PROFESSIONAL ENGAGEMENTS

Petronet SZ4D / SZ4Grads Disabled Geoscientists Geological Society of America American Geophysical Union ARCS Foundation National Science Foundation TRC Collaborative Change Initiative

CREATIVE ENGAGEMENTS AND THINGS THAT SPARK JOY

Amateur singer/songwriter Novice instrumentalist (soprano uke, guitar, piano, hand drum) Aspiring Artist (digital illustration, stained glass) Enthusiastic Yogi (sometimes the hardest part is showing up!) Complete Dork (talk to me about video games, sci-fi/fantasy, anime, film, etc.) Reading, but outdoors! My dog, Bagel <3