

Biographical Sketch

Sonia Nagorski, PhD

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Professional Preparation

Amherst College 1994	Amherst, Massachusetts	Geology and History (<i>magna cum laude</i>) B.A.	
University of Montana 1997	Missoula, Montana	Geology	M.S.
University of Montana 2001	Missoula, Montana	Geology	Ph.D.
Université Joseph Fourier, 2004	Grenoble, France.	Post-doctoral appointment, Geochemistry	

Appointments

- **Assistant Professor of Geology** (2015-present). Environmental Science and Geography Programs, University of Alaska Southeast, Juneau, AK.
- **Associated Faculty of Chemistry and Biochemistry** (2014-present). College of Natural Science and Mathematics, University of Alaska Fairbanks.
- **Research Assistant Professor** (2005-2015, part time). Environmental Science Program, University of Alaska Southeast, Juneau, AK. Including instructor for various courses in Geology, Chemistry, Mathematics, Humanities, and workshops for science teachers.
- **Affiliate Professor** (2009- 2010). Institute of Northern Engineering, University of Alaska Fairbanks.
- **Associate Director** (2009- 2012) for the University of Alaska Southeast Campus, Alaska University Transportation Center, Institute of Northern Engineering, University of Alaska Fairbanks.

Courses taught at UAS:

- **ENVS/GEOG 102:** Earth and Environment
- **ENVS/GEOG 213:** Natural Hazards
- **ENVS 375:** Current Topics: The Anthropocene
- **GEOL 104:** Physical Geology
- **GEOL 105:** Geological History of Life
- **GEOL 301:** Geomorphology
- **GEOL 320:** Geological Resources & the Environment
- **GEOL 393:** Field Geology- Death Valley
- **HUM 120:** A Sense of Place: Alaska and Beyond

Selected peer-reviewed publications and technical reports

- **Nagorski, S.A.**, S.D. Kaspari, E. Hood, J.B. Fellman, and S.M. Skiles, (*in revision*) Radiative forcing by dust and black carbon on the Juneau Icefield, Alaska. *Journal of Geophysical Research- Atmospheres*.
- **S.A. Nagorski**, D.R. Engstrom, D.P. Krabbenhoft, R.F. Lepak, W.F. Fitzgerald (*in press*). Historical trends in mercury deposition as recorded in lake cores near Glacier Bay National Park and Preserve, Alaska. Natural Resource Report, National Park Service, Fort Collins, CO.
- Fellman, J.B., E. Hood, **S. Nagorski**, J. Hudson, S. Pyare, 2019. Interactive physical and biotic factors control dissolved oxygen in salmon spawning streams in coastal Alaska *Aquatic Sciences* 81:2, <https://doi.org/10.1007/s00027-018-0597-9>.
- Vermilyea, A.W., **S.A. Nagorski**, C.H. Lamborg, E.W. Hood, D. Scott, and G.J. Swarr, 2017. Continuous proxy measurements reveal large mercury fluxes from glacial and forested watersheds in Alaska. *Science of the Total Environment* 599-600: 145-155, <https://doi.org/10.1016/j.scitotenv.2017.03.297>
- Sergeant, C.J. and **S.A. Nagorski**, 2014. The implications of monitoring frequency for describing riverine water quality regimes. *River Research and Applications*. DOI: 10.1002/rra.2767.
- **Nagorski, S.A.** D.R. Engstrom, J.P. Hudson, D.P. Krabbenhoft, E. Hood, J.F. DeWild, G.R. Aiken, 2014. Spatial distribution of mercury in southeastern Alaskan streams influenced by glaciers, wetlands, and salmon. *Environmental Pollution* 184: 62-72. <http://dx.doi.org/10.1016/j.envpol.2013.07.040>
- Fellman, J.B., **S. Nagorski**, S. Pyare, A.W. Vermilyea, D. Scott, and E. Hood, 2013. Stream temperature responses to variable glacier coverage in coastal watersheds of Southeast Alaska. *Hydrological Processes*. DOI: 10.1002/hyp.9742.
- **Nagorski, S.A.**, E.G. Neal, and T.P. Brabets, (2013). Mercury and water-quality data from Rink Creek, Salmon River, and Good River, Glacier Bay National Park and Preserve, Alaska, November 2009–October 2011: U.S Geological Survey Open-File Report 2013-1097, 20 p., <http://pubs.usgs.gov/ofr/2013/5058>.
- **Nagorski, S.A.**, C.J. Sergeant, W.F. Johnson, B.J. Moynahan (2012). Freshwater Water Quality Monitoring Protocol, Southeast Alaska Network. Natural Resource Report NPS/SEAN/NRR—2012/496. National Park Service, Fort Collins, Colorado. 236 pp.
- **Nagorski, S.A.**, J. N. Moore, T.E. McKinnon, and D.B. Smith, 2003. Geochemical response to variable streamflow conditions in contaminated and uncontaminated streams. *Water Resources Research*, 39 (2), 1044, doi: 10.1029/2001WR001247.
- **Nagorski, S.A.**, J.N. Moore, and D.B. Smith, 2002. Distribution of metals in water and bed sediment in a mineral-rich watershed, Montana, USA. *Mine Water and the Environment*, 21: 121-136.

SYNERGISTIC ACTIVITIES

- Successful acquisition of research funds on 19 grants to UAS (lead PI on 16), worth \$798,500 since 2005.
- Integration of modern geologic discoveries, techniques, and analyses into geoscience courses taught to UAS undergraduates; revamping of previous course offerings; and development of new geology courses, including a field-based geologic methods class;
- Natural Sciences representative to UAS Faculty Senate
- Primary mentor to 10 undergraduate student research and teaching assistants in past 5 years;

- Judge and mentor to local high school science fair students;
- Geology field trip guide and instructor to local school groups, camps, science clubs, and U.S. Forest Service naturalists.
- Chair, UAS Sustainability Committee; promoting local sustainability action and education
- Steering Committee member, local 350.org climate action group (350Juneau)
- Alaska Section representative to the National Association of Geoscience Teachers
- Collaborator, operation of Mercury Deposition Network station and USGS atmospheric mercury isotope monitoring station, Juneau 2016-2018.
- Invited speaker at various public and academic forums