

EMILIO IAN MATEO
Curriculum Vitae

CONTACT

Department of Geography
1155 Derby Hall, 154 N. Oval Mall
Columbus, OH 43210

Phone: 734-330-3527
Email: mateo.9@osu.edu

Glacier Environmental Change Group
Byrd Polar and Climate Research Center
<http://research.bpcrc.osu.edu/glacierchange/>

EDUCATION

Ph.D. Geography, The Ohio State University, Expected Graduation: May 2021
Advisor: Bryan Mark

M.A. Geography, University of Denver, June 2017
Thesis Title: *Rock Glaciers in the San Juan Mountains, Colorado*
Advisor: J. Michael Daniels

B.S. Environmental Science, University of Michigan, May 2014
Minor: Applied Statistics

POSITIONS

Academic Positions

- 2017 – Present *Graduate Teaching Assistant, The Ohio State University*
Co-lead the organization and planning of *Global Climate Change*.
Assisted with development and grading of course materials.
- 2015 – 2017 *Graduate Teaching Assistant, University of Denver*
Organized and taught lab sections for *Global Environmental Change (Honors)*.
Created multiple labs and graded course materials.
- 2015 *Flight Across America Fellowship, EcoFlight*
Flew in small aircraft around the southwestern United States to view the limited water resources in the area from a low aerial perspective and meet many different stakeholders in water rights.
- 2014 *Research Assistant, University of Michigan*
Supervisor: Dr. Dan Brown
Worked closely with a professor of geography with his research on vegetation distribution in Inner Mongolia using ArcGIS and R.

Professional Positions

- 2016 *Asset Management Intern – National Park Service Academy Member*
Student Conservation Association – Rocky Mountain National Park
Created a geodatabase and collected all exhibit data from Visitor Centers throughout Rocky Mountain National Park. Collected sign and wayside information to update the existing database. Developed a method for the National Park Service to inventory Historic Trail walls using GPS systems. Processed this data using tools to be able to visualize the wall shape and location.
- 2015 *Trail Asset Management Intern*

AmeriCorps and Student Conservation Association – Rocky Mountain National Park
Hiked 400 miles of trail in Rocky Mountain National Park in order to GPS-point and assess the trail, sign, and bridge conditions throughout the park. Ultimately, I used GIS to develop an extensive mapbook of all the bridges in the park which included their location on the trail, condition, dimensions, and a picture of each bridge.

2015 *Education Intern*
AmeriCorps and Student Conservation Association – Alaska SeaLife Center
Developed and taught a variety of programs pertaining to ocean sciences and sustainability to all ages of students from pre-kindergarten to college.

2014 *Interpretation Intern*
Student Conservation Association – Haleakalā National Park
Provided information and visitor services for visitors about the park in Visitor Centers. Developed and presented formal guided hikes and talks (3 per week). Managed sales transactions in the park bookstore.

PUBLICATIONS

Manuscripts in Review

2017 Mateo, E., Daniels, J.M., Surface hydrological processes of rock glaciated basins in the San Juan Mountains, Colorado. Submitted to: *Physical Geography*

In-Progress

Mateo, E., Daniels, J.M., Dry-season water resources in southwest Colorado: A reliance on rock glaciers.

RESEARCH GRANTS AND AWARDS

Awarded

2018 Lakshmanan Chatterjee Fellowship – The Ohio State University, \$3000
2017 Dept. of Geography Conference Travel Grant – The Ohio State University, \$500
2017 Robert D. Rudd Award: Outstanding Graduate Student – University of Denver, \$200
2016 Laurance C. Herold Fund – University of Denver, \$1000
2015 AWRA National Conference Scholarship – AWRA, \$300

Applied

2018 Edward F. Hayes Graduate Research Forum – The Ohio State University
2017 Outstanding Student Paper Award – AGU
2017 Cryosphere Innovation Award – AGU Cryosphere Section, \$1000, Finalist
2017 AGU 2017 Travel Grant – USPA, \$500, Declined
2016 Colorado Mountain Club Academic Fellowship – CMC, \$2000, Declined
2016 Richard A. Herbert Memorial Scholarship – AWRA, \$2000, Declined

PRESENTATIONS

Talks

December 13, 2017 AGU Conference Poster Presentation: “Surface Hydrological Processes in the San Juan Mountains, Colorado”
May 11, 2016 Global Environmental Change (Honors): Taught a class session about glaciers, climate change, and research methods

Invited Talks

December 14, 2017 AGU Cryosphere Innovation Award Flash Presentation: “Rock Glaciers: Future Directions”
April 5, 2017 AAG Conference Presentation: “Rock Glacier Hydrology in the San Juan Mountains, Colorado”
Sept. 15, 2016 Colloquium Presentation: “Reflections from the Field”

SERVICE

- 2017 – Present *Student Representative*
AGU – Cryosphere Section Executive Committee
- 2016 – 2017 *Graduate Student Representative*
Department of Geography and the Environment at the University of Denver

Professional Society Membership

American Geophysical Union
American Association of Geographers
Geological Society of America
United States Permafrost Association
Permafrost Young Researchers Network
The Geography Graduate Organization, The Ohio State University
American Water Resources Association

Conference Attendance

- 2017 American Geophysical Union – New Orleans, LA
2017 American Association of Geographers – Boston, MA
2015 American Water Resources Association – Denver, CO

Certifications and Skills

Proficient with GIS mapping software (e.g. ESRI Products, GeoJot Core +, ENVI)
Proficient with GPS devices (e.g. Arrow 100 Subfoot GNSS, Getac Z710, Garmin Monterra)
Proficient with hydrological programs (e.g. HOBOWare, WinXSPro)
Proficient with Microsoft Office programs
Proficient with R statistical software
Basic conversational in Spanish
Wilderness First Aid Certified
Basic First Aid, CPR, AED Certified

Volunteering

- 2018 Camp Kesem Camp Advisor – Selected to oversee Camp Kesem at Virginia Commonwealth University, and worked with local directors to ensure the session of camp went according to schedule
- 2015 Assisted with trail and bridge building with Trail Crew at Rocky Mountain National Park
- 2015 Volunteered with research staff and rehabilitation teams for marine mammals, birds, and fish at the Alaska SeaLife Center
- 2014 Volunteered with Resource Management at Haleakalā National Park assisting biologists with endangered bird and plant projects
- 2014 Worked extensively with a team of students and the Director of Food Services to determine recommendations for University of Michigan Sustainable Food Guidelines
- 2013 Performed ecological and geological field work during a course in Wyoming; analyzed and compiled the data into a research report
- 2012 – 2014 Camp Kesem Volunteer Counselor – Age Group Unit Leader
This camp is for children with parents who have or had cancer, during the school year we would work to raise the funds for every child to go to camp