

# John-Morgan Manos

## *Curriculum Vitae*

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### Research Interests

Glacier Environmental Change | Glaciology | Geophysics  
Numerical Modeling | Machine Learning | Glacier and Ice Sheet Dynamics  
Climate Change | Remote Sensing | Photogrammetry | GPS Surveying | GIS

### Education

Ph.D Earth and Space Sciences, University of Washington, June 2021 – 2026 (expected)

B.S. Atmospheric Sciences, Ohio State University, 2018

### Positions

2018 – 2021 Remote Sensing Engineer, Maxar Technologies Inc.

2017 – 2018 GIS Assistant, Facilities and Information Technology Services, Ohio State University

2015 – 2018 Undergraduate Researcher, Byrd Polar and Climate Research Center

### Abstracts Presented at Professional Meetings

2021 **Manos, J.**, Lipovsky, B., Fichtner, A., Gräff, D., Martin, E. R., Paitz, P., & Walter, F. (2021). From DAS to Discharge: Using Distributed Acoustic Sensing to Estimate the Hydrological Response of the Rhonegletscher, Switzerland. [C25C-0849]. presented at 2021 Fall Meeting, AGU, 13-17 Dec.

2020 Schoessow, F., Soni, N., **Manos, J.**, Mark, B.G., DeGrand, J., Vega, E.M., Reinemann, S., and Porinchu, D. Multi-annual measures of rock glacier-wide volume change and surface kinematics in Great Basin National Park. Abstract GC026-0020. 2020 Fall Meeting, AGU, all virtual, 1-17 Dec.

2019 Soni, N., Mark, B.G., **Manos, J.**, Vega, M.E., Schoessow, F., DeGrand, J.Q., Reinemann, S.A., and Porinchu, D.F. Interannual Rock Glacier Surface Elevation Changes using UAS in Great Basin National Park, Nevada. Submitted abstract #633654. 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.

2018 Schoessow, F.S., **Manos, J.**, Mark, B.G., DeGrand, J., Soni, N., Reinemann, S., and Porinchu, D. Mapping rock glacier surface elevation changes in Great Basin National Park, Nevada. Geological Society of America Abstracts with Programs. Vol. 50, No. 6, ISSN 0016-7592. doi:10.1130/abs/2018AM-324542. Paper #84-8 presented at the Geological Society of America Annual Meeting, Indianapolis, IN, 4-7 November.

2018 **Manos, J.**, B.G. Mark, J. DeGrand and O. Wigmore. Annual Surface Elevation Change of the Lehman Rock Glacier in Great Basin National Park, Nevada, USA. Poster presented at

Association of American Geographers Annual Meeting, New Orleans, LA. Physical Geography Poster Session II #046. 12 April.

- 2018 **Manos, J.**, B.G. Mark, J. DeGrand and O. Wigmore. Annual Surface Elevation Change of the Lehman Rock Glacier in Great Basin National Park, Nevada, USA. Poster Presented at Denman Undergraduate Research Forum Annual Meeting, Ohio State University, Columbus, OH. Session #1, Poster #134. 3 April.

### **Awards and Honors**

- 2018 Cum Laude
- 2018 Edward J. “Ned” Taaffe Award – \$1000  
Recognizes the most outstanding Atmospheric Sciences, Climate, and Physical Geography graduates.
- 2018 Garry McKenzie & Henry Brecher Undergraduate Scholarship – \$600  
Stipend to be used to facilitate research efforts or offset travel to present at academic conferences.
- 2018 Office of Energy and Environment Sustainability Award Finalist  
Presented at the 2018 Denman Undergraduate Research Forum at the Ohio State University.
- 2015 – 2018 Dean’s List – AU15, SP16, AU16, SP17, AU17, and SP18 semesters

### **Fieldwork**

- 2021 Ocean Observatories Initiative Regional Cabled Array DAS deployment, Oregon
- 2021 Distributed Acoustic Sensing deployments on the Alpentel Ski Resort and Easton Glacier on Mt. Baker, Cascade Range, Washington
- 2016 – 2018 Great Basin Research Experience, Great Basin National Park, 3 seasons

### **Outdoor Education and Experience**

- 2021 First Aid, CPR, and AED certified, MEDIC First Aid, Seattle, WA
- 2020 AIARE 1 Certification, Colorado Mountain School, Estes Park, CO
- 2020 Avalanche Awareness Clinic, Colorado Mountain School, virtual
- 2020 Basic Rock Climbing, Colorado Mountain Club, Denver, CO
- 2020 Navigation 1, Colorado Mountain Club, Denver, CO
- 2019 Wilderness Trekking School, Colorado Mountain Club, Denver, CO
- 2018 Belay Certification, Ohio State University
- 2018 Wall Climbing, Ohio State University

## **Professional Society Memberships**

American Geophysical Union (AGU)

American Association of Geographers (AAG)

American Meteorological Society (AMS)

## **Outreach and Engagement**

- 2022           Invited to present current Distributed Acoustic Sensing research on glaciers at the weekly Seismolunch Seminar Series at the University of Washington.
- 2021           Assisted in resume review of current undergraduate or graduate students in the Atmospheric Sciences program at The Ohio State University.
- 2021           Served as graduate mentor to undergraduate student in Earth and Space Sciences Department to foster professional connections and share knowledge, experience, and expertise.
- 2021           Participated in the Earth and Space Sciences peer mentoring program for which I am a peer mentee to a second year PhD student within the department.
- 2019           Presented new technologies in satellite image enhancement and educated colleagues in quality validation procedures during annual quality summit at Maxar Technologies.
- 2019           Acted as talent recruiter for Maxar Technologies at career fairs at Colorado State University.
- 2018           Invited to present undergraduate research to the National Park Service and visitors of Great Basin National Park.
- 2018           Invited to discuss undergraduate research during the “Takeover Tuesday” event hosted by the Office of Undergraduate Research & Creative Inquiry at Ohio State which highlights new and innovative research being conducted by undergraduate students.
- 2018           Interviewed by an Ohio State University journalist about my research as an undergraduate which was featured on the Ohio State University website homepage.
- 2018           Elected President of the Scarlet and Gray Weather Forecasting Team at Ohio State University, mentored a team of undergraduate weather enthusiasts in weather forecasting, and helped create point weather forecasts for the Columbus area.
- 2017           Featured in The Lantern’s *Humans of OSU* segment where I discussed my academic goals and my passion for climate research.
- 2016           Created a video showcasing the research taking place during the 2016 Great Basin Research Experience expedition which was featured on the Byrd Polar and Climate Research Center website.

- 2016 Investigated wildfire history in Great Basin National Park which was featured in the 2016 Ohio State Severe Weather Symposium brochure.
- 2015 – 2018 Served as an active member of the Meteorology Club at Ohio State University.