Julia Andreasen

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2225 Observatory Pl NW Washington, DC 20007

**EDUCATION**

**University of Minnesota- Twin Cities Saint Paul, MN**

Ph.D. in Land and Atmospheric Science Class of 2024

* Department of Soil, Water, and Climate with an emphasis in Glaciology
  + Supervisor: Dr. Peter Neff

**University of Leeds Leeds, UK**

Master of Research in Climate and Atmospheric Science Class of 2019

* Dissertation: *The Analysis of Circum-Antarctic Calving Fronts- How have Antarctica’s Major Ice Shelves Changed in the Past 10 Years?* - **Distinction**, Supervisor: Dr. Anna E. Hogg
  + Publication in progress

**The Ohio State University Columbus, OH** Bachelor of Science in Atmospheric Science Class of 2018

* Minor in Women’s Gender and Sexuality Studies

**EXPERIENCE**

**NASA Goddard Space Flight Center Greenbelt, MD**

*Experiential Learning Graduate Student and Summer Intern*March 2020- Present

* Assessing reanalysis data for tropical glaciers alongside areal extent analysis over multiple decades
* Analyzing Planet satellite imagery of tropical debris glaciers in South America over several-year periods

**The Ohio State University School of Geography Columbus, OH**

*Climate Analytics Undergraduate Research Assistant* November 2017- August 2018

* Analyzed a variety of hurricane outage data from 2016 to understand the effects that tropical cyclone tracks and forecast errors have on a hurricane outage prediction model with Dr. Steven Quiring
* Publication in progress

**The Ohio State University School of Geography Columbus, OH**

*Undergraduate Lead Lab Researcher in Charcoal Paleoclimatology*September 2015- April 2018

* Dissected lake sediment (dirt) cores and analyzed the charcoal content to create a fire history of the area dating back thousands of years with Dr. Bryan Mark and Jim DeGrand

**National Community Reinvestment Coalition (NCRC) Washington, DC**

*Research and GIS Intern* Summer 2017

* Analyzed home mortgage and small business lending big data (14 million entries) using PowerBI
* Created research presentations for members of NCRC on banking deserts and housing issues
* Implemented ArcGIS (desktop and online) to create data maps representative of NCRC research

**The Ohio State University School of Geography Columbus, OH**

*Undergraduate Field Assistant* Summers 2016, 2017

* Attended research expeditions to Great Basin National Park, Nevada to extract alpine sediment lake cores, collect stream water samples, record a network of humidity/ temperature data loggers, and take aerial imagery of the rock glacier

**Management Concepts Tysons Corner, VA**

*Accounting Department, Government Contracting Intern* Summer 2016

* Provided accounting and project management support for a U.S. government contractor performing federal government awards
* Tested new enterprise resource planning system, AX, for user-friendly navigation and analyzed project data

**Environmental Protection Agency (EPA) Washington, DC**

*Office of the Administrator, Summer Intern* Summer 2015

* Created, presented, and instigated project on Idle Reduction, green cleaning products (Safer Choice), and innovative EPA GIS tool, EJ Screen

**Capital Educators: SAT Tutoring Company Washington, DC**

*Staff Assistant* September 2013-2014

* Proctored diagnostic SAT tests and tracked attendance /payments of registered students

**Nanotechnology Bing Research Group at the University of Maryland College Park, MD**

*Research Assistant* Summer 2013

* Worked closely with graduate students to develop a biodegradable filter that separates water from oil, in order to find a sustainable solution for oil-spills

**PUBLISHED WORK**

**Co-Author of:** Rohrbach, K., Li, Y., Zhu, H., Liu, Z., Dai, J., Andreasen, J. and Hu, L., 2014. A cellulose based hydrophilic, oleophobic hydrated filter for water/oil separation. *Chemical Communications*, *50*(87), pp.13296-13299.

**Abstract available:** <http://www.ncbi.nlm.nih.gov/pubmed/25229071>

**LEADERSHIP AND STUDENT ACTIVITIES**

**The Ohio State University Buckeye Blackout Club** 2014-2018 **Columbus, OH**

*President-* Organized concerts to feature local and student bands and promote/discuss sustainability

**The Ohio State University Amateur Radio Club** 2014-2018  **Columbus, OH**

*Disc Jockey and Co-Content Manager*- Weekly Co-host of 2-hour long radio show

**The Ohio State University Undergraduate Student Government** 2016-2017 **Columbus, OH**

*Sustainability Committee Representative-* Implemented University sustainability programs and events

**SKILLS AND AFFILIATIONS**

**Programming and Design:** Remote Sensing Analysis (MODIS Satellite Imagery, Planet Satellite Imagery), MATLAB, R, Python, QGIS, ArcGIS, SolidWorks, LoggerNet Datalogger, and HTML

**Computer:** MS Word, Excel, PowerPoint, OneNote, Google Drive, Google Sheets, PowerPivot, and PowerBI

**Affiliations:** Centre for Polar Observation and Modelling (CPOM), American Geophysical Union (AGU), The Ohio State University Green Engineering Scholar (GES)