

Julia Andreassen

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2225 Observatory Pl NW Washington, DC 20007

EDUCATION

University of Minnesota- Twin Cities

Ph.D. in Land and Atmospheric Science

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

Saint Paul, MN

Class of 2024

University of Leeds

Master of Research in Climate and Atmospheric Science

- 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

Leeds, UK

Class of 2019

The Ohio State University

Bachelor of Science in Atmospheric Science

- Minor in Women's Gender and Sexuality Studies

Columbus, OH

Class of 2018

EXPERIENCE

NASA Goddard Space Flight Center

Experiential Learning Graduate Student and Summer Intern

- 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

Greenbelt, MD

March 2020- Present

The Ohio State University School of Geography

Climate Analytics Undergraduate Research Assistant

- 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

Columbus, OH

November 2017- August 2018

The Ohio State University School of Geography

Undergraduate Lead Lab Researcher in Charcoal Paleoclimatology

- 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

Columbus, OH

September 2015- April 2018

National Community Reinvestment Coalition (NCRC)

Research and GIS Intern

- 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

Washington, DC

Summer 2017

The Ohio State University School of Geography

Undergraduate Field Assistant

- 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

Columbus, OH

Summers 2016, 2017

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)