

## FUTURE AND CAREER INTEREST

In pursuit of a professional degree focusing on climate change dynamics affecting various environments with a special interest in science communication and education.

## EDUCATION

### The University of Colorado Boulder, Boulder, Colorado

Fall 2018

*Non-degree graduate student*

- Paleoclimatology and Paleoceanography, GPA 3.00/4.00

### The City University of New York at Brooklyn College, Brooklyn, New York

December 2017

*Bachelors of Science in Earth and Environmental Sciences*

- Cum Laude, Dean's list, Cumulative GPA 3.72/4.00

**Relevant Advanced Coursework** Geoscience Statistics, Meteorology, Geochemistry, Field Mapping, Urban Soils, Sedimentary Petrology, Stratigraphy, Sedimentology, Oceanography, Structural Geology

## RESEARCH AND RELATED WORK EXPERIENCE

### Professional Research Assistant

September 2018 - Present

INSTAAR, BOULDER, COLORADO

Accelerated progression of responsibilities resulting in a dynamic role

- **September 2018** Trace Mineral Lab, Dr. Thomas Marchitto, preparing foraminifera samples for ICP-MS analysis
- **January 2019** Began working on NSF funded project 'Timing and Paleoceanographic Impacts of the Onset of Arctic-Baffin Bay Throughflow, (NOW project)' with PI Dr. Anne Jennings, assessing benthic foraminifera assemblages in Baffin Bay marine sediment cores to determine deglaciation of ice aged channel openings
- **November 2019** Front Range Community College STEM seminar series presentation about the NOW project's research
- **January 2020** Assessing trace metal in NOW project's planktic foraminifera from Baffin Bay cores for indicators of Pacific/Arctic throughflow waters

### STEM Summer Camp Leader/Tour Guide

May 2019- Present

FRIENDS OF DINOSAUR RIDGE, MORRISON, COLORADO

1. Tour Guide (August 2019-Present)

Describe geological and paleontological features at Dinosaur Ridge to tourists and dinosaur lovers

2. STEM Summer Camp Leader (May-August 2019)

Lead STEM academic curriculum for children aged 6-13. The curriculum was strongly based on geology and paleontology. Students changed each week allowing for a variety of topics ranging from astronomy to ecology.

### Independent Research Project CUNY Brooklyn, Advisor Matthew Garb

December 2016 - October 2017

EMIGRANT PASS, DEATH VALLEY, CALIFORNIA

Extensive stratigraphic fieldwork detailing the Ediacaran-Cambrian boundary in a previously unexplored field site

- Consulted with Yale Peabody Museum Ediacaran Collection on paleontological findings
- Presented at GSA, Seattle 2017

### Independent Research Project CUNY Brooklyn, Advisor Matthew Garb

September 2015 -

#### September 2016

BIG BROOK, MONMOUTH COUNTY, NEW JERSEY

Measured stratigraphic sections while systematically collecting sedimentological and paleontological samples in the field to qualitatively infer changes in Cretaceous sea level

- Presented at GSA, Denver 2016
- *Research paper in final manuscript stage for journal submission in January 2020*

### Brooklyn College Geological Society Research Trip

May 2016

JOULTER'S CAY, ANDROS ISLAND, BAHAMAS

Investigated aspects of carbonate ramp environments with a focus on oolitic formations

- Culminated in a published article in the AiPG Northeastern Indian Summer Newsletter, *Purdy's Treasure Map: Brooklyn College Geology Society and their Quest for Ooids*

## HONORS & AWARDS

Scholarships to date: \$9580

### Graduate Research Fellowship Program Honorable Mention

Spring 2019

Geological Society of America Attendance Travel Grant, \$130

Fall 2017

Samuel Arthur Feidman Geology Training Scholarship, \$1000

Spring 2017

ConEd STEM Scholarship, \$2500

Spring 2017

Geological Society of America Attendance Grant, \$200

Fall 2016

American Institute of Professional Geologists' Tagliacozzo Memorial Scholarship, \$1000

Spring 2016

Rose Goldstein Memorial Scholarship, 2015, \$500

Spring 2016

Michael Bruce Duchin Memorial Scholarship, \$1000

Spring 2016

Seymour and Sylvia Rothchild Memorial Scholarship, \$250

Spring 2016

Film Acting Achievement Scholarship, \$1000

Fall 2007

American Legion Post 32 Fred Ehlert WWII Memorial Scholarship, \$2000

Spring 2006

# Nicole K.S. Brooks

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## TECHNICAL SKILLS

Microscopy (Hitachi TM3000)

R-Studio

Adobe Illustrator

Geographic Information System (GIS)

Microsoft Office Suite

C2

Trimble GPS

Scanning Electron Microscope

Sediment grain size analysis (Tyler Ro-tap Sieve shaker RX-94)

Petrographic Microscope (Nikon Eclipse)

## PRESENTATIONS

Brooks, Nicole K.S., (November 2019). *Using Micropaleontology to determine Arctic Channel Openings at the End of the Last Ice Age*. Front Range Community STEM Seminar Series. Westminster, CO. (Oral)

Brooks, Nicole K.S.; Rashova, Anastasia; Garb, Matthew; Rodriguez, Stephanie. (October 2017). *Stratigraphic interpretation of the transition from the Precambrian Stirling Quartzite to Lower Wood Canyon Fm, Emigrant Pass, California*. Geological Society of America Conference. Seattle, Washington. (Poster)

Brooks, Nicole K.S.; Rashova, Anastasia; Garb, Matthew. (September 2016). *A Paleontological and Sedimentological Analysis of Sand Pods at the Base of the Navesink Fm, Big Brook, New Jersey*. Geological Society of America Conference. Denver, Colorado. (Poster)

## PROFESSIONAL MEMBERSHIPS

Association for Women Geoscientists

2016 - Present

American Institute for Professional Geologists

2016 - Present

Geological Society of America

2015 - Present