

# ASHLEY CORNISH

Department of Geography | The University of Georgia  
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## EDUCATION

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<b>PhD</b>	University of Georgia, Geography <b>GPA: 4.0</b> Advisor: Dr. Gabriel Kooperman	May 2026 (Expected)
<b>MS</b>	University of Georgia, Geography <b>GPA: 4.0</b> Advisor: Dr. Gabriel Kooperman Thesis: "Impact of Plant CO <sub>2</sub> Physiological Forcing on Extreme Heat and Humidity Events"	August 2022
<b>BS</b>	Rutgers University, Meteorology, <b>GPA: 3.67, cum laude</b> Minor: Marine Science Honors Thesis: "Climate Change Indicators in New York and New Jersey"	May 2020

## RESEARCH INTERESTS

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Climate Modeling, Extreme Heat, Climate Change Indicators, Land-Atmosphere Interactions

## RESEARCH EXPERIENCE

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**University of Georgia**, Athens, GA Aug 2020 to Present  
*Graduate Research Assistant*

- Analyze the effect of plant physiological forcing on extreme heat in global climate models, notably the Community Earth System Model, CESM.

**Rutgers University**, New Brunswick, NJ May 2020 to July 2020  
*George H. Cook Honors Scholar*  
Advisor: Anthony J. Broccoli

- Gathered and analyzed data for non-traditional climate variables from National Centers for Environmental Information, USA National Phenological Network, National Snow and Ice Data Center, contacted farmers about growing seasons.
- Synthesized, interpreted, and produced appropriate figures of these data using Python and Excel.

## TEACHING EXPERIENCE

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**University of Georgia**, Athens, GA Aug 2020-May 2021, August 2022 to Present  
*Teaching Assistant (Instructor of Record)*, Department of Geography

- Taught Introduction to Weather and Climate Lab, an undergraduate course averaging 50 students per semester (between two sections), covering the following topics: radiation and energy budget, atmospheric moisture, atmospheric stability, weather maps, general circulation, severe weather, global climates, and climate change.

## FELLOWSHIPS & FUNDING

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<b>Graduate Teaching Assistantship</b> Department of Geography	2022-Present
<b>Graduate Research Assistantship</b> Department of Geography	2021-2022
<b>Graduate Teaching Assistantship</b> Department of Geography	2020-2021

## PROFESSIONAL EXPERIENCE

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### **Riskpulse, Chicago, IL**

*Intern*

Sep 2019 to Apr 2020

- Created graphics displaying weather information for supply-chain customers
- Participated in weather briefings designed to provide risk scores to clients in energy and agricultural markets.

### **Rutgers Television Network, New Brunswick, NJ**

*Manager-Weather Watchers*

Aug 2019 to Mar 2020

- Scheduled, supervised, and created daily weather forecasts.
- Delegated event coverage and editing tasks to crew members.
- Coordinated with multi-disciplinary team to resolve technical issues

### **Rutgers Dept. of Environmental Science, New Brunswick, NJ**

Jan 2017 to Mar 2020

*Weather Observer*

- Collected and uploaded weather data such as high and low temperatures, precipitation amounts, and soil temperatures from the Rutgers Weather Center to the National Weather Service. Utilized dry bulb thermometers, drip counting rain gauge, and soil thermometers.

### **WNBC New York, New York, New York**

Sep 2018 to May 2019

*Meteorological Intern*

- Assisted on-air meteorologists in forecasting and building of graphics for live shows.
- Conducted research projects on historical weather events in New York Tristate area.
- Updated social media pages.

## PRESENTATIONS AND INVITED LECTURES

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**Poster Presentation**, Title: Climate Change Indicators in New York and New Jersey, *American Meteorological Society Annual Meeting*, January 2020, Boston, MA.

**Poster Presentation**, Title: Impact of Plant CO<sub>2</sub> Forcing on Extreme Heat and Humidity Events, *International Congress of Biometeorology*, September 2021, zia Zoom.

**Poster Presentation** Title: Impact of Plant CO<sub>2</sub> Forcing on Extreme Heat and Humidity Events *American Geophysical Union Fall Meeting*, December 2021, New Orleans, LA

**Poster Presentation** Title: Isolating the Impact of Plant-Physiological vs. Radiative CO<sub>2</sub> Forcing on Extreme Heat and Humidity using CMIP6, *American Meteorological Society Annual Meeting*, January 2023, Denver, CO

## SERVICE

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### **Geography Graduate Student Association**

*Chair, University of Georgia*

Jan 2021 to Present

### **The Fraternity Alpha Zeta, Cook Chapter**

*Member & Brotherhood Chair, New Brunswick, NJ*

Apr 2019 to Aug 2020

### **Rutgers Chapter-American Meteorological Society**

*Elected President, New Brunswick, NJ*

Apr 2019 to Apr 2020

### **Rutgers Chapter-American Meteorological Society**

*Elected Secretary, New Brunswick, NJ*

Apr 2018 to Apr 2019

### **Rutgers Chapter-American Meteorological Society**

*Elected Secretary, New Brunswick, NJ*

Apr 2018 to Apr 2019

## HONORS AND AWARDS

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**Outstanding Student Conference Poster Award: Undergraduate** 2020

Selected based on outstanding feedback from judges on research and presentation. Award: \$100

**Outstanding Teaching Assistant Award** 2021

Received in recognition of outstanding service and dedication to teaching at the University of Georgia

## SKILLS

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**Programming:** Python, R, MATLAB, NCL, Linux/UNIX, Microsoft Excel, ArcGIS Pro

## PROFESSIONAL MEMBERSHIPS / AFFILIATIONS

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American Meteorological Society

American Geophysical Union