

# **ABIGAIL MCDONNELL**

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## **EDUCATION**

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### **University of Illinois at Urbana-Champaign**

**May 2025**

*Bachelor of Science in Atmospheric Sciences, GPA: 3.70/4*

- Coursework: Computing and Data Analysis, Climate Processes, Introduction to Computer Science I, Synoptic Dynamic Weather Analysis, General Physical Meteorology

## **EXPERIENCE**

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### **Climate Dynamics and Data Science at UIUC**

**January 2022 - Present**

*Research Assistant*

- Conducting research on constraining climate model projections based on historical performance under Prof. Cristian Proistosescu
- Organized CMIP6 data and extracted global predictions of 30 different climate models
- Presented research at the American Geophysical Union Fall 2022 conference

### **Scholars Transforming Through Research Council on Undergraduate Research**

**Oct 2022 – Present**

*Undergraduate Researcher*

- Learned to communicate with policy makers promoting the importance of undergraduate research experiences
- Encouraged action towards reforming current climate policy

### **America Reads / America Counts**

**August 2022 – December 2022**

*Tutor*

- Tutored STEM students on reading and mathematics skills
- Fostered a supportive and positive learning environment to motivate students

## **ACTIVITIES**

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### **Connect Crew**

**August 2019-May 2021**

- Mentored freshman class as a member of a student leadership group
- Coordinated welcome events to introduce freshman to high school life
- Taught orientation classes to new students, which created a supportive community

### **Cary Area Library**

**May 2017 - August 2020**

- Instructed educational classes to local students
- Organized classes by planning educational and fun activities
- Lead various community events which involved working with children

### **Registered Student Organizations**

**August 2021 - Present**

Speech Team, University Chorus, Virtual Reality Club, ISTORM (American Meteorological Society)

## **TECHNICAL SKILLS**

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**Languages:** Python, Linux

**Libraries:** Xarray, NumPy, Pandas, Cartopy, matplotlib

**Models:** CMIP6, WRF Models, WPS Models