

# TOBIAS I.D. ROSS

4052-E Natural History Building  
1301 W. Green St, Urbana, IL 61801, USA  
tiross2@illinois.edu

## EDUCATION

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**M.S. Atmospheric Sciences** *Aug 2019 - Present*  
University of Illinois at Urbana-Champaign

**Combined BSc., MEnv. Meteorology and Climate Science** *Sep 2015 - May 2019*  
University of Leeds

**Exchange Year, Meteorology and Climate Science** *Aug 2017 - May 2018*  
University of Illinois at Urbana-Champaign

## RESEARCH EXPERIENCE

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**M.S. Atmospheric Sciences** *Aug 2019 - Present*  
University of Illinois at Urbana-Champaign

- Investigating the effect of the speed of the warm rain process upon the timing of convective cold pool initiation. Advisor: Sonia Lasher-Trapp
- Case studies of secondary ice production during Southern Ocean Clouds, Radiation, Aerosol Transport Experimental Study (SOCRATES) research flights. Advisor: Sonia Lasher-Trapp.

**MEnv. Meteorology and Climate Science** *Sep 2018 - March 2019*  
University of Leeds

- Case studies and climatology of synoptic cold surges and associated severe precipitation events in South East Asia. Advisor: Juliane Schwendike.

**Undergraduate Research Assistant** *June 2018 - Aug 2018*  
University of Illinois at Urbana-Champaign

- Investigation of microphysical processes that sustain supercooled liquid water in Southern Ocean stratocumulus during SOCRATES. Advisor: Sonia Lasher-Trapp.

**Capstone Undergraduate Research Project** *January 2018 - May 2018*  
University of Illinois at Urbana-Champaign

- Radar analysis of initiation, propagation and development characteristics of deep convection in Mendoza, Argentina. Advisor: Stephen W. Nesbitt.

## TEACHING AND MENTORING EXPERIENCE

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**Mentor to First-Year Graduate Students** *Feb 2021 - present*  
University of Illinois at Urbana-Champaign

- Co-led weekly advice sessions on topics including research, classes, and time management, all in the context of COVID-19, for three first year graduate students.

**Graduate Teaching Assistant: ATMS 100: Introduction to Meteorology** *Fall 2020*  
University of Illinois at Urbana-Champaign

- Led weekly lab sessions, including a 15-minute introductory lecture and weather briefing, for 52 students, held regular office hours, and graded weekly lab reports.

**Undergraduate Student Mentor** *Aug 2016 - May 2017*  
University of Leeds

- Provided academic support and advice for first-year Meteorology and Climate Science students.

## **PRESENTATIONS**

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\* denotes oral presentation, † denotes poster presentation.

**\*Investigating the effect of the speed of the warm rain process upon the timing of convective cold pool initiation (2020)**

Midwest Student Conference on Atmospheric Research, Urbana, IL.

**†Investigating the effect of the speed of the warm rain process upon the timing of convective cold pool initiation (2020)**

School of Earth, Society, and Environment Research Review, Urbana, IL.

## **EXTRACURRICULAR ACTIVITIES AND MEMBERSHIPS**

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**Undergraduate Course Representative**

*Sep 2016 - May 2017*

University of Leeds

- Served as a liaison between undergraduate students and faculty.

**Royal Meteorological Society (RMetS) Member**

*2015 - present*

**UK Tornado and Storm Research Organization (TORRO) Member**

*2015 - present*

## **HONORS AND AWARDS**

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**Outstanding Instructor, ATMS 100: Introduction to Meteorology**

*Fall 2020*

**Department of Atmospheric Sciences Graduate Research Fellowship**

*2019 - 2020*

## **COMPUTING AND PROGRAMMING EXPERIENCE**

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PYTHON, MATLAB, UNIX, R, Microsoft Office Suite, LaTeX, ArcGIS