

# Joseph Fogarty

GRADUATE STUDENT

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## Summary

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Current second-year graduate student at Princeton University in the Environmental Fluid Mechanics (EFM) research group in the department of Civil and Environmental Engineering (CEE). Although my undergraduate degree was in Meteorology at Rutgers University, my interests have changed from forecasting to studying the fluid dynamics of the atmosphere and human-environment interactions. Now as a graduate student, my research interests lie in applying fluid mechanics to the intersection of humans and the environment; more specifically the atmospheric boundary layer (ABL). Current research uses computational and numerical tools to simulate the changing sea ice surface and the Arctic ABL above.

## Work Experience

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### Office of the NJ State Climatologist

*Piscataway*

UNDERGRADUATE INTERN

*May. 2017 - Aug. 2018*

- Did tasks such as CoCoRaHS Quality control, gathering information for the annual snow report, while working on independent research projects under the advice of the State Climatologist.

### Spot-On Weather, LLC

*Marlboro, NJ*

UNDERGRADUATE INTERN

*Aug. 2016 - Dec. 2016*

- Created forecasts for film crews to be sent out at certain times during the day as well as be on call for updating information
- Created forensic meteorology reports by using archival data for events in civil lawsuits

### Rutgers Environmental Sciences

*New Brunswick, NJ*

WEATHER OBSERVER

*Dec. 2015 - Aug. 2018*

- Conduct and record daily weather observations once a week by reading and resetting thermometers, rain gauge, and evaporation pan
- Uploaded data to Rutgers observations website

## Honors & Awards

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2018 **Gordon Wu Fellowship**, Princeton University

*Princeton N.J.*

2018 **Meteorology Student of the Year**, Rutgers University

*New Brunswick, N.J.*

## Presentations

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### CEE Department Presentation Day

*Princeton*

POSTER PRESENTATION

*May 2019*

- "Modeling of Air-Sea-Ice Coupling of the Arctic Atmospheric Boundary Layer"

### George H. Cook Honors Presentation Day

*New Brunswick*

ORAL PRESENTATION

*Apr. 2018*

- "Drizzle Evaporation in the Stratocumulus-Topped Marine Boundary Layer and its Relationship with Sub-Cloud Turbulence"

### Rutgers Climate Symposium

*Piscataway*

POSTER PRESENTATION

*Nov. 2017*

- "Seasonal Trends in Extreme Minimum Temperatures at Six New Jersey Locations"

## Education

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### Rutgers University (School of Environmental and Biological Sciences)

*New Brunswick, NJ*

B.S. IN METEOROLOGY

*Sep. 2014 - May 2018*

- Minors in Environmental Science and Mathematics
- summa cum laude

**Princeton University (School of Engineering and Applied Science)**

PH.D. IN ENVIRONMENTAL ENGINEERING

- Currently Enrolled

*Princeton, NJ*

*Sep. 2018 - Exp. May 2023*