VINCENT T. COOPER

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EDUCATION

UNIVERSITY OF WASHINGTON — **Seattle, WA**
Ph.D. Student, Atmospheric Sciences — 2020 – Present
M.S., Atmospheric Sciences, GPA: 4.0/4.0 — 2020 – 2022

HARVARD UNIVERSITY — **Cambridge, MA**
B.A., Statistics — 2011 – 2015
Cum Laude (highest non-thesis honors), GPA 3.9/4.0, GRE 338/340 (168 Verbal, 170 Quant)
Study Abroad (Università Ca' Foscari di Venezia): *Nature, A History of Ethics Defined with Nature in Mind*

PROFESSIONAL EXPERIENCE

UNIVERSITY OF WASHINGTON — **Seattle, WA**
Graduate Research Assistant & NDSEG Fellow, Department of Atmospheric Sciences — 2020 – Present

- Advisors: Kyle Armour (Climate Dynamics), Cecilia Bitz (Ice & Climate), Greg Hakim (Data Assimilation)
- Thesis: Radiative Feedbacks and SST Pattern Effects Constrained by Data Assimilation (est. Spring 2025)
- Summer School: Advanced Course in Climate Dynamics (ACDC), Norway, 2022

AMERICAN SECURITIES — **New York, NY**
Associate, Private Equity Investment Team — 2017 – 2019

- Selected investment experience: 2019 acquisition of BELFOR, the world's largest damage reconstruction provider, rebuilding homes, businesses, and cities after extreme weather events (hurricanes, floods, winter storms, tornados, etc.)

EVERCORE — **New York, NY**
Investment Banking Analyst, Mergers & Acquisitions (Industry: Communications & Technology) — 2015 – 2017

GRADUATE AWARDS AND FELLOWSHIPS

- National Defense Science & Engineering Graduate (NDSEG) Fellowship, US Department of Defense — 2020 – 2023
- Outstanding Student Presentation Award (OSPA), AGU Fall Meeting — 2023
- Third Place Outstanding Student Poster Presentation Award, Polar AMS Meeting — 2021
- Outstanding Student Presentation Award (OSPA), AGU Fall Meeting — 2020
- Graduate Provost Fellowship, University of Washington (declined for NDSEG Fellowship) — 2020
- Top Scholar Award, Department of Atmospheric Sciences, University of Washington — 2020

PUBLICATIONS

Cooper, V., G. Hakim, and K. Armour. Spatial Patterns of Sea-Surface Temperature, Sea Ice, and Sea-Level Pressure from Coupled Data Assimilation, 1850−2023. *In prep.*

Cooper, V., K. Armour, G. Hakim, J. Tierney, N. Burls, C. Proistosescu, M. Dvorak, Y. Dong, T. Andrews, J. Zhu, J. King, M. Osman, W. Dong, and Y. Ming. Pliocene pattern effects indicate stronger constraints on modern-day climate sensitivity. *In prep.*

Cooper, V., K. Armour, G. Hakim, J. Tierney, M. Osman, C. Proistosescu, Y. Dong, N. Burls, T. Andrews, D. Amrhein, J. Zhu, W. Dong, Y. Ming, and P. Chmielowiec (2024). Last Glacial Maximum pattern effects reduce climate sensitivity estimates. *Science Advances.* 10, eadk9461. doi.org/10.1126/sciadv.adk9461. (Carbon Brief article: "Ice-age analysis suggests worst-case global warming is less likely".)

Cooper, V., L. Roach, J. Thomson, S. Brenner, M. Smith, M. Meylan, and C. Bitz (2022). Wind waves in sea ice of the western Arctic and a global coupled wave-ice model. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences.* 380:20210258. doi.org/10.1098/rsta.2021.0258.

PRESENTATIONS

Cooper, V., K. Armour, G. Hakim, J. Tierney, N. Burls, C. Proistosescu, M. Dvorak, Y. Dong, T. Andrews, J. Zhu, D. Amrhein, J. King, M. Osman, W. Dong, and Y. Ming. Pliocene Pattern Effects and Revised Estimates of Modern-day Climate Sensitivity. *CESM Paleoclimate Working Group Meeting 2024. Talk.*

Cooper, V., K. Armour, G. Hakim, J. Tierney, N. Burls, C. Proistosescu, M. Dvorak, Y. Dong, T. Andrews, J. Zhu, J. King, M. Osman, W. Dong, and Y. Ming. Pliocene Pattern Effects and Revised Estimates of Modern-day Climate Sensitivity. *AGU Fall Meeting 2023. Talk.*

Cooper, V., G. Hakim, and K. Armour. Variability in Sea-Surface Temperature and Sea Ice Patterns from Coupled Data Assimilation, 1850–present. *AGU Fall Meeting 2023. Poster.* **Received OSPA (Outstanding Student Presentation Award).**

Dvorak, M., K. Armour, R. Feng, J. Zhu, N. Burls, **V. Cooper,** C. Proistosescu. Mid-Pliocene climate forcing, sea-surface temperature pattern effects, and implications for modern-day climate sensitivity. *AGU Fall Meeting 2023. Talk.*

Cooper, V., K. Armour, G. Hakim, J. Tierney, M. Osman, C. Proistosescu, Y. Dong, N. Burls, T. Andrews, D. Amrhein, J. Zhu, W. Dong, Y. Ming, and P. Chmielowiec. Last Glacial Maximum pattern effects reduce climate sensitivity estimates. *ECS & Cloud Feedback Symposium (Oct. 2023). Invited Talk (recording available).*

Cooper, V., K. Armour, C. Proistosescu, Y. Dong, G. Hakim, J. Tierney, M. Osman, N. Burls, D. Amrhein, T. Andrews, Y. Ming, W. Dong, and P. Chmielowiec. SST pattern effect in the Last Glacial Maximum reduces climate sensitivity estimates. *AGU Fall Meeting 2022. Talk.*

Cooper, V., K. Armour, C. Proistosescu, P. Chmielowiec, J. Tierney, M. Osman, Y. Dong, G. Hakim, D. Amrhein, N. Burls, and S. Knapp (2022). The Last Glacial Maximum Pattern Effect. *CFMIP 2022. Poster.*

Cooper, V., L. Roach, J. Thomson, S. Brenner, M. Smith, M. Meylan, and C. Bitz (2022). Wind waves in sea ice of the western Arctic and a global coupled wave-ice model. *National Defense Science & Engineering Graduate Fellowship Conference. Poster.*

Cooper, V., K. Armour, C. Proistosescu, P. Chmielowiec, J. Tierney, M. Osman, Y. Dong, G. Hakim, D. Amrhein, N. Burls, and S. Knapp (2022). The Last Glacial Maximum Pattern Effect. *Pattern Effect Workshop (Boulder, CO). Poster.*

Thomson, J., S. Wahlgren, **V. Cooper,** S. Brenner, M. Smith, S. Swart, L. Biddle, and C. Bitz. Waves observed far (>100 km) within sea ice. *Waves in Shallow Water Environment (WISE) Meeting. Poster.*

Cooper, V., L. Roach, J. Thomson, S. Brenner, M. Smith, M. Meylan, and C. Bitz (2022). Wind waves in sea ice and a global coupled wave-ice model. *Antarctic Sea Ice and Southern Ocean Seminars, hosted by The University of Texas at San Antonio. Talk.*

Cooper, V., L. Roach, J. Thomson, S. Brenner, M. Smith, and C. Bitz (2021). Waves in the Marginal Ice Zone: Insights from Observations and Modeling. *Polar Meteorology and Oceanography Conference, hosted by American Meteorological Society (Polar AMS). Poster.* **Received Third Place Presentation Award.**

Cooper, V., L. Roach, J. Thomson, S. Brenner, M. Smith, and C. Bitz (2021). Waves in the Marginal Ice Zone: Insights from Observations and Modeling. *Sea State Meeting, hosted by Plymouth Marine Laboratory. Poster.*

Cooper, V., L. Roach, J. Thomson, S. Brenner, M. Smith, and C. Bitz (2020). Towards Validating Wave-Ice Interactions in Climate Models Using In Situ Observations. *AGU Fall Meeting. Poster.* **Received OSPA (Outstanding Student Presentation Award).**

TEACHING & SERVICE

UNIVERSITY OF WASHINGTON, DEPARTMENT OF ATMOSPHERIC SCIENCES **Seattle, WA**

Teaching

- Lead Teaching Assistant (selected to lead teaching program for all Atmospheric Sciences TAs) 2022 – 2023
- Teaching Assistant, ATM S 100: Climate, Justice, and Energy Solutions (Prof. Dargan Frierson) 2022
- Invited Lecture, ATM S 220: Ice & Climate 2022

- Guest Lectures: The Atmospheric General Circulation Parts I and II 2023

Service & Outreach

- Equity, Diversity, and Inclusion (EDI) Committee, Student Representative (2 students selected) 2023 – present
- Diversity & Inclusion Group (DIG): Member of student-led group 2021 – present
- Mentor, Graduate-Undergraduate Mentor Program for Atmospheric Sciences 2021 – present
- Discussion on Climate with Governor Jay Inslee (1 of 3 invited students from Dept. of Atmos. Sciences) 2023
- Convener, Session on Climate Dynamics at UW Program on Climate Change, Summer Institute 2023
- Student representative for Fleagle Endowed Lecture Committee: Invited Speaker, Myles Allen 2023
- Student member of Welcome Committee for New Students 2021 – 2022
- Interviewed for Undergraduate Environmental Job Fair (link) 2022
- UW Outreach Program: Lecturer on Climate Change and Impacts on the Pacific Northwest 2020 – 2021
- Peer reviewer: Journal of Climate (x3)

READER'S GARDEN BOOKSTORE **Granville, OH**
Treasurer and Member of Board of Directors 2018 – Present

- Volunteer board member for my hometown's bookstore in rural Ohio focused on community engagement

FAIR OPPORTUNITY PROJECT **Seattle, WA**
Mentor 2019 – 2021

- Provide one-on-one mentorship to an underrepresented high-school student throughout college application process

BUCKINGHAM BROWNE & NICHOLS SCHOOL **Cambridge, MA**
Math Team Head Coach 2013 – 2015

- Led competitive math program: weekly lessons, mock tests, and travel to regional competitions

BOSTON PROJECT TEACH **Cambridge, MA**
Mentor, College & Career Awareness Program 2012 – 2015

- Present and discuss college options and career paths with middle school students from low-income families