

PERRIN DAVIDSON

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EDUCATION

The University of Chicago

Chicago, IL

Bachelor of Arts in Physics, Bachelor of Sciences in Statistics, Minor in Chemistry

Expected: June, 2022

Courses of Note: Geophysical Fluid Dynamics (Graduate), Honors Physics Sequence, Accelerated Analysis in \mathbb{R}^n , Advanced Biology Track, Honors Elements of Economic Analysis

Universitetet i Bergen

Bergen, Norway

Climate, Atmosphere, and Ocean Physics Program

Expected: June, 2020

Courses of Note: Continuum Mechanics (Graduate), Numerical Modeling (Graduate), Practical Oceanography and Meteorology, Physical Meteorology

ENVIRONMENTAL RESEARCH

Research in Oceanography

Chicago, Illinois

Student Researcher

Jan. 2018 - Present

- Incorporate radioactive elements (Thorium) into a 1D ocean circulation model (SLAMS)
- Code model output into larger 3D General Circulation Models to assess climate change impacts on oceans
- Edited SLAMS paper for publishing in Journal of the American Geophysical Union
- Attended the Naval Academy Science and Engineering Conference as a UChicago representative

International Research in Oceanography

Bergen, Norway

Student Researcher in Bjerknes Center for Climate Research, Universitetet i Bergen

Feb. 2020 - Present

- Design independent research in collaboration with professors and researchers at Bjerknes
- Incorporate an ocean mixing model with SLAMS to see how marine carbon transport are modulated by mixing variations
- Collected data sets in Masfjorden and west coastal Norway on week-long cruise

Smithsonian Environmental Research Center

Edgewater, Maryland

Research Intern

Aug. 2019 - Oct. 2019

- Analyzed current and future building efficiency on SERC campus with implications for Smithsonian facilities through report submission to Advisory Board
- Conducted supplementary research in renewable energy options
- Created a renewable energy model based on current economic and climate change trends
- Published article on research in the Sustainability Matters Newsletter

ENVIRONMENTAL LEADERSHIP

Environmental Research Group

Chicago, Illinois

Founding President

May 2019 - Present

- Lead and recruit students to interdisciplinary project groups working with atmospheric pollutant data to produce white papers on potential mitigation techniques
- Developed strategies with project groups, industry professionals, and administrators for implementing alternative energy and sustainable initiatives on UChicago's campus and beyond
- Founded the **UChicago Environmental Alliance**: a quasi-administrative body that connects all environmental groups on campus to meet bi-quarterly, release quarterly and annual reports, and meet regularly with professors, administrators, and trustees
- Founded the **Intercollegiate Sustainability Alliance**: a body uniting environmental organizations from a broad array of Chicago universities

Chicago Environmental Leadership Initiative

Chicago, Illinois

Founding Director

Jan. 2019 - Present

- Lead 7 members to design 5, project-based curricula for youth from Chicago to proactively fight climate injustices
- Research environmental topics and pedagogical implementation
- Contact and communicate with teachers and administrators to bring to 4 public school classrooms in Fall 2020

Student Advisory and Research Council

Chicago, Illinois

Board Member

Oct. 2018 - Present

- Act as Mansueto Institute liaison for this student board of the Program on Global Environment (PGE)
- Communicate and plan meetings with top administrators and faculty to make a more sustainable UChicago
- Create programs for the Frizzell Speaker Series, the Environmental Frontier Initiative, and the PGE

SKILLS

Computer: Experience in Fortran, MATLAB, C, R, Python, HTML, CSS, JavaScript, and LaTeX. Proficient in Adobe Premiere Pro, Illustrator, Photoshop, InDesign, and DaVinci Resolve

Languages: Limited working proficiency in Spanish; Currently learning Norwegian

*Made in L^AT_EX