

Claire M. Zarakas

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| CONTACT INFORMATION | Department of Atmospheric Sciences University of Washington Box 351640 Seattle, WA 98195 USA | ✉ czarakas@uw.edu 🌐 www.clairezarakas.com 🔗 https://github.com/czarakas |
| EDUCATION | University of Washington Seattle, WA Ph.D. Student in Atmospheric Sciences M.S. in Atmospheric Sciences Advisor: Abigail Swann | 2020 - Present 2018 - 2020 |
| | Princeton University Princeton, NJ B.A. in Geosciences <i>Summa Cum Laude</i> Certificate in Environmental Studies | 2012 - 2016 |
| RESEARCH EXPERIENCE | Ecoclimate Lab, University of Washington Seattle, WA <i>Graduate Student Research Assistant</i> | 2018 - Present |
| | Medvigy Group, Princeton Geosciences Princeton, NJ <i>Undergraduate Student, Senior Thesis Research</i> | 2015 - 2016 |
| | Geophysical Fluid Dynamics Laboratory, NOAA Princeton, NJ <i>Hollings Scholar Intern, Mentored by Elena Shevliakova</i> | 2015 |
| | Ward Group, Princeton Geosciences Princeton, NJ <i>Undergraduate Student, Junior Research Project</i> | 2015 |
| | Medvigy Group, Princeton Geosciences Princeton, NJ <i>Undergraduate Student, Junior Research Project</i> | 2014 - 2015 |
| | Princeton Environmental Institute El Giral, Panama and Princeton, NJ <i>Intern</i> | 2013 |
| POLICY AND NONPROFIT EXPERIENCE | Abt Associates Cambridge, MA <i>Associate Analyst, Division of Health and Environment</i> <i>Climate Change Research Assistant, Division of Health and Environment</i> | 2017 - 2018 2016 - 2017 |
| | Environmental Defense Fund San Francisco, CA <i>Natural and Social Sciences Research Intern</i> | 2014 |
| | Essex County Greenbelt Association Essex, MA <i>Forest Foundation Fellow</i> | 2012 |
| | ProPeru / Princeton Bridge Year Program Urubamba, Peru <i>Bridge Year Volunteer</i> | 2011 - 2012 |
| FELLOWSHIPS, HONORS, AND AWARDS | Andrew Slater Award <i>for best graduate student contribution at the 2022 Community Earth System Model Land Model Working Group Annual Meeting</i> Department of Energy Computational Science Graduate Fellowship (CSGF) | 2022 2019 - 2023 |

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| | National Science Foundation Graduate Research Fellowship (NSF GRFP) <i>declined fellowship support beyond 2019 in order to accept DOE CSGF</i> | 2018 - 2019 |
| | UW Program on Climate Change Graduate Fellowship | 2018 - 2019 |
| | UW Department of Atmospheric Sciences Top Scholar Award | 2018 |
| | Abt Associates Technical Innovation Award | 2018 |
| | Abt Associates Spot Recognition Award | 2016 |
| | Sigma Xi Book Award, Department of Geosciences, Princeton University | 2016 |
| | Elected to membership in the Sigma Xi Society | 2016 |
| | National Oceanic and Atmospheric Administration Hollings Scholarship | 2014 - 2016 |
| | Princeton University Benjamin F. Howell Class of 1913 Prize | 2015 |
| PUBLICATIONS | Zarakas, C.M. , Swann, A.L., Laguë, M.M., Armour, K.C. and Randerson, J.T., 2020. Plant physiology increases the magnitude and spread of the transient climate response to CO ₂ in CMIP6 Earth system models. <i>Journal of Climate</i> , 33(19), pp.8561-8578. | |
| | Sanderson, B.M., Wobus, C., Mills, D., Zarakas, C. , Crimmins, A., Sarofim, M.C. and Weaver, C., 2019. Informing future risks of record-level rainfall in the United States. <i>Geophysical research letters</i> , 46(7), pp.3963-3972. | |
| | Wobus, C., Zarakas, C. , Malek, P., Sanderson, B., Crimmins, A., Kolian, M., Sarofim, M. and Weaver, C.P., 2018. Reframing future risks of extreme heat in the United States. <i>Earth's future</i> , 6(9), pp.1323-1335. | |
| PRESENTATIONS | Community Earth System Model (CESM) Land Model and Biogeochemistry Working Group. <i>Talk</i> . Virtual | 2022 |
| | American Geophysical Union Fall Meeting. <i>Poster</i> . New Orleans, LA | 2021 |
| | National Center for Atmospheric Research (NCAR) - National Ecological Observatory Network (NEON) Workshop. <i>Invited Talk</i> . Virtual | 2021 |
| | University of New South Wales Land-Atmosphere Seminar Series. <i>Invited Talk</i> . Virtual | 2021 |
| | Department of Energy RUBISCO Biogeochemistry Science Friday. <i>Invited Talk</i> . Virtual | 2021 |
| | Next-Generation Ecosystem Experiments - Tropics (NGEE-Tropics) Annual Meeting. <i>Poster</i> . Virtual | 2021 |
| | CESM Land Model and Biogeochemistry Working Group Meeting. <i>Talk</i> . Virtual | 2021 |
| | Graduate Climate Conference. <i>Poster</i> . Virtual | 2021 |
| | Department of Energy Regional and Global Model Analysis (DOE RGMA) Meeting. <i>Talk</i> . Virtual | 2020 |
| | University of Washington Department of Atmospheric Sciences Dynamics Seminar (Master's Defense). <i>Talk</i> . Virtual | 2020 |
| | American Geophysical Union Fall Meeting. <i>Poster</i> . San Francisco, CA | 2019 |
| | American Geophysical Union Fall Meeting. <i>Poster</i> . San Francisco, CA | 2015 |
| TEACHING EXPERIENCE | University of Washington, Department of Atmospheric Sciences | |
| | <i>Teaching Assistant</i> , ATM S 211 Climate and Climate Change Autumn 2020, Professor: Kat Huybers | 2020 |
| | <i>Guest Lecturer</i> | 2019 - 2022 |
| | ATM S 220 Exploring the Atmospheric Sciences (Autumn 2019, Winter 2020, Winter 2022) | |
| | ATM S 211 Climate and Climate Change (Autumn 2020) | |

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| CONFERENCES AND WORKSHOPS ATTENDED | CESM Land Model and Biogeochemistry Working Group Virtual | 2022 |
| | American Geophysical Union Fall Meeting New Orleans, LA | 2021 |
| | NCAR-NEON Workshop Virtual | 2021 |
| | DOE Computational Science Graduate Fellowship Annual Program Review Virtual | 2021 |
| | NGEE-Tropics Annual Meeting Virtual | 2021 |
| | CESM Land Model and Biogeochemistry Working Group Meeting Virtual | 2021 |
| | Graduate Climate Conference Virtual | 2021 |
| | DOE RGMA Meeting Virtual | 2020 |
| | DOE Computational Science Graduate Fellowship Annual Program Review Virtual | 2020 |
| | American Geophysical Union (AGU) Fall Meeting San Francisco, CA | 2019 |
| | UW Program on Climate Change Summer Institute Friday Harbor, WA | 2019 |
| | DOE Computational Science Graduate Fellowship Annual Program Review Arlington, VA | 2019 |
| | Community Terrestrial Systems Model (CTSM) Tutorial, National Center for Atmospheric Research (NCAR) Boulder, CO | 2019 |
| | UW Program on Climate Change Summer Institute Friday Harbor, WA | 2018 |
| | American Geophysical Union (AGU) Fall Meeting San Francisco, CA | 2015 |
| | NOAA Student Science and Education Symposium Silver Spring, MD | 2015 |

SKILLS AND
LANGUAGES

Software and Programming Languages: Python (including numpy, xarray, matplotlib and cartopy); R; Matlab; Fortran; Git (Github); ArcGIS; Command-line scripting; Excel

Spoken Languages: English (native); Spanish (fluent)