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| Education | 2022 - | Princeton University | Ph.D., Atmospheric and Oceanic Sciences <i>Advisor:</i> Gabriel Vecchi |
| | 2020 - 2022 | The City College of New York | M.E., Mechanical Engineering <i>Advisor:</i> Prathap Ramamurthy |
| | 2014 - 2018 | Vanderbilt University | B.E., Mechanical Engineering <i>Minors:</i> Materials Science, Scientific Computing |
| Awards | 2023 - 2027 | Department of Energy | Computational Science Graduate Fellowship |
| | 2022 | Princeton University | President's Fellowship |
| | | National GEM Consortium | Ph.D. Engineering and Science Fellowship |
| | | National Science Foundation | Graduate Research Fellowship (honorable mention) |
| | 2021 | NOAA-CESSRST | Professional Development Award |
| | 2020 - 2022 | NOAA-CESSRST | Graduate Fellowship |
| Peer-reviewed publications | G Rios , P Ramamurthy, H Gamarro (2023). "Observations of boundary layer structure and dynamics over a coastal urban area during extreme heat events". <i>Submitted to Theoretical and Applied Climatology</i> . | | |
| | G Rios , P Ramamurthy (2023). "Turbulence in the mixed layer over an urban area: a New York City case study". <i>Boundary Layer Meteorology</i> . DOI: https://doi.org/10.1007/s10546-023-00819-9 . | | |
| | G Rios , P Ramamurthy (2022). "A novel model to estimate sensible heat fluxes in urban areas using satellite-derived data". <i>Remote Sensing of Environment</i> . DOI: https://doi.org/j.rse.2021.112880 . | | |
| | G Rios , RJ Morrison, Y Song, SJ Fernando, A Gelbard, H Luo (2020). "Computational fluid dynamics analysis of surgical approaches to bilateral vocal fold immobility". <i>The Laryngoscope</i> . DOI: https://doi.org/10.1002/lary.27925 . | | |
| Presentations | G Rios , W Yang, B Zhang, G Vecchi, B Soden. "Exploring the effects of tropical cyclone suppression on climate in global climate models". <i>AGU Fall Meeting</i> . 11-15 Dec 2023. San Francisco, CA. Poster. | | |
| | Arthur RS, G Rios , Wharton S, Julianio TW, Rybchuk A, Lundquist JK, Golaz JC, Edmunds TA. "Characterizing speedup flows in the Altamont Pass Wind Resource Area of California: observations and model evaluation". <i>AGU Fall Meeting</i> . 11-15 Dec 2023. San Francisco, CA. Talk. | | |
| | G Rios , W Yang, B Zhang, G Vecchi, B Soden. "What would a climate without tropical cyclones look like? A preliminary analysis of WISHE suppression on TCs and climate". <i>10th Northeast Tropical Workshop</i> . 5 Jun 2023. Albany, NY. Talk. | | |
| | P Ramamurthy, MD K Rahman, G Rios . "URBANSYMP Observations of Coastal-Urban Boundary Layer Characteristics". <i>AMS 103rd Annual Meeting</i> . 11 Jan 2023. Denver, CO. Talk. | | |
| | P Ramamurthy, JE Gonzalez-Cruz, G Rios . "24BLT Spatial and Temporal Variability in Coastal Urban Boundary Layer Characteristics". <i>AMS 103rd Annual Meeting</i> . 11 Jan 2023. Denver, CO. Talk. | | |
| | P Ramamurthy, G Rios . "Observations of urban boundary layer characteristics during extreme heat episodes". <i>AGU Fall Meeting 2022</i> . 14 Dec 2022. Chicago, IL. Talk. | | |
| | G Rios , P Ramamurthy. "Boundary layer structure and dynamics over New York City during extreme heat events". <i>2nd Annual NYS Mesonet</i> . 13 Sep 2022. Albany, NY. Poster. | | |
| | G Rios , P Ramamurthy. "Estimating urban sensible heat flux using satellite-based data". <i>10th Biennial NOAA EPP/MSI Education and Science Forum</i> . 6 Apr 2022. Virtual. Poster. | | |
| | G Rios , P Ramamurthy, M Arend. "Observations of urban boundary layer characteristics during extreme heat episodes". <i>AGU Fall Meeting 2021</i> . 13 Dec 2021. Virtual. Poster. | | |
| | G Rios , P Ramamurthy. "Estimating urban sensible heat flux using satellite-based data". <i>EGU General Assembly 2021</i> . 19 Apr 2021. Virtual. Talk. | | |

G Rios, H Luo. “Computational fluid dynamics analysis of surgical approaches to bilateral vocal fold immobility”. *Vanderbilt Institute for Surgery and Engineering Assembly*. 26 Apr 2018. Nashville, TN. Poster.

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| Skills | <u>Programming languages:</u> | Python, Fortran, Bash, MATLAB, HTML/CSS, Javascript |
| | <u>HPC tools:</u> | OpenMP, MPI, Slurm |
| | <u>Other tools:</u> | Jupyter, Git, ANSYS, COMSOL, LaTeX, Google Cloud Compute Engine, Amazon Web Services |
| Work experience | 2023 | Lawrence Livermore National Laboratory , Livermore, CA (remote) - <i>Atmospheric, Earth & Energy Graduate Summer Student Intern</i> |
| | 2022 | Lawrence Livermore National Laboratory , Livermore, CA (remote) - <i>Atmospheric, Earth & Energy Graduate Summer Student Intern</i> |
| | 2018 - 2020 | Collins Aerospace , Windsor Locks, CT - <i>Engineer II</i> |
| | 2017 | Biedermann Medtech , Miami, FL - <i>Quality Engineering Intern</i> |
| | 2016 | General Electric , Plainville, CT - <i>Edison Engineering Development Program Intern</i> |
| | 2015 | General Electric , Clearwater, FL - <i>Operations Management Leadership Program Intern</i> |