Daniel Baldassare, PhD

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Climate scientist with over 7 years of professional and research experience in atmospheric science, climate economics, renewable energy, machine learning, and engineering. Skilled manager with experience overseeing large teams and complex multidisciplinary projects.

Education

- **Doctor of Philosophy - PhD, Atmospheric Science**, *University of Utah*, 2021 - 2024
- **Master of Science - MS, Atmospheric Science** *University of Nevada, Reno*, 2019 - 2020
- **Bachelor of Science - BS, Geophysics** *University of California, Davis*, 2011 - 2015

Experience

- **Climate Scientist**
  Baldassare Climate Consulting, September 2023 - Present
  - Created high-resolution projections of local climate risk to meet project resilience regulations.
  - Wrote the NEPA Climate Report for large restoration projects for the USFS and nonprofits, synthesizing complex and often conflicting literature into actionable land management insights.
  - Calculated greenhouse gas emissions and changes in carbon storage from proposed actions.
  - Analyzed feasibility of implementing climate adaptation features and carbon storage technology.
  - Wrote high-level guidance on climate adaptation and resilience for nonprofit organizations.
- **Climate Dynamics Doctoral Research Assistant**
  University of Utah, Jan 2022 – May 2024
  - Created novel methods for improved climate projections using economics and machine learning.
  - Published multiple first-author papers on climate change, data science, and adaptation.
  - Analyzed terabytes of CMIP6 data using Python, machine learning, Linux, and cloud computing.
  - Worked with a diverse team to meet requirements of a multidisciplinary NSF sponsored project, leading research projects on topics in climate forecasting, adaptation, and climate dynamics.
- **Mechanical Engineering Doctoral Research Assistant**
  University of Utah, Jan 2021 - Dec 2021
  - Planned research project to develop new methods of wind measurement using thermal imagery.
  - Designed and implemented machine learning and physics-based wind and flux measurement through drone thermal imagery using Python, MATLAB, Linux, and cloud computing.
- **Director**
  Castine Yacht Club, Jun 2020 - Sep 2021 (Seasonal)
  - Managed operations, facilities, hiring, and staff at a yacht club in Maine.
  - Reported to board of directors and oversaw finances and long-term planning.
- **Atmospheric Physics Graduate Research Assistant**
  University of Nevada, Reno, Aug 2019 - Dec 2020
  - Processed multiple terabyte-scale atmospheric datasets using Python to produce novel insights.
- **Engineering Research Technician**
  University of California, Davis, Jun 2018 - Aug 2019
  - Designed and implemented a field research campaign, using Python to analyze resulting data.
- **Geophysics Research Assistant**
  University of California, Davis, Sep 2014 - Sep 2015