Daniel Baldassare, PhD

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Climate scientist with over 7 years of professional and research experience in atmospheric science, economics, renewable energy, remote sensing, machine learning, engineering, and technical report writing. Skilled manager having overseen teams as large as 30 while delivering on complex 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 change to meet project resilience regulations.
  - Wrote the NEPA Climate Report for large restoration projects for the USFS and nonprofits.
  - Calculated greenhouse gas emissions and changes in carbon storage from proposed actions.
  - Analyzed feasibility of implementing climate adaptation features and carbon storage technology.
  - Assisted climate tech companies with market research and product design.
  - Wrote high-level guidance on climate adaptation and resilience for nonprofit organizations.
- **Climate Dynamics 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, and cloud computing.
  - Worked with a diverse team to meet requirements of a multidisciplinary NSF sponsored project, producing presentations and publications in multiple academic fields.
- **Mechanical Engineering 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, 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.
- **Physics 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, used Python to analyze resulting data.
- **Geophysics Research Assistant**
  University of California, Davis, Sep 2014 - Sep 2015