

Peter J. Sherman

Lead Quantitative Researcher | Orlando Magic
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EXPERIENCE

Orlando Magic - Nov 2025 - Present

Lead Quantitative Researcher

Harvard University - Nov 2022 - Present

Associate Researcher

Ode Partners - Apr 2024 - Mar 2026

AI Research Engineer

Applied AI for climate and environmental projects, including retrieval-augmented generation, MCP servers, and geospatial foundation models.

Philadelphia 76ers - Oct 2024 - Nov 2025

Data Scientist

Los Angeles Dodgers - Feb 2023 - Mar 2026

Consultant

Climate Engine - Apr 2023 - Apr 2024

Applied Climate Scientist

Climate metrics from observations and model projections to help organizations assess physical climate risk.

KPMG - Nov 2022 - Apr 2023

Senior Associate · Climate Risk Data & Analytics

Physical and transition risk analysis using CMIP climate projections and NGFS scenarios.

Harvard University - Feb 2022 - Nov 2022

Postdoctoral Research Fellow

Orlando Magic - Sep 2021 - Nov 2022

Basketball Operations Analyst

Minnesota Timberwolves - Sep 2019 - Sep 2021

Remote Basketball Operations Analyst

EDUCATION

Harvard University - PhD, Earth and Planetary Sciences, 2022

Imperial College London - Master's degree in Physics, 2017

TEACHING AND MENTORSHIP

Harvard teaching and research mentorship, 2018-2022. Courses in climate change and Earth science; supervision of undergraduate and high-school research. Teaching recognized by the Derek Bok Center for Teaching and Learning.

Research and skills

SELECTED PUBLICATIONS

2025 | On the Attribution of Weather Events to Climate Change Using Empirically Fit Extreme Value Distributions

P. Sherman, P. Huybers & E. Tziperman. *Journal of Climate*.

2025 | Leveraging Embeddings from Geospatial Foundation Models for Annual Global Mangrove Monitoring

P. Sherman, L. Chen, M. Grimshaw & A. Cohn. AGU Fall Meeting. Conference abstract.

2023 | Grid integration feasibility and investment planning of offshore wind power under carbon-neutral transition in China

X. Guo, X. Chen, X. Chen, P. Sherman, J. Wen & M. McElroy. *Nature Communications*.

2022 | Projected global demand for air conditioning associated with extreme heat and implications for electricity grids in poorer countries

P. Sherman, H. Lin & M. B. McElroy. *Energy and Buildings*.

2022 | Deep decarbonization of the Indian economy: 2050 prospects for wind, solar, and green hydrogen

S. Song, H. Lin, P. Sherman et al.. *iScience*.

2021 | Production of hydrogen from offshore wind in China and cost-competitive supply to Japan

S. Song, H. Lin, P. Sherman, X. Yang, C. P. Nielsen, X. Chen & M. B. McElroy. *Nature Communications*.

2021 | Sensitivity of modeled Indian monsoon to Chinese and Indian aerosol emissions

P. Sherman, M. Gao, S. Song et al.. *Atmospheric Chemistry and Physics*.

2021 | Projected changes in wind power potential over China and India in high resolution climate models

P. Sherman, S. Song, X. Chen & M. B. McElroy. *Environmental Research Letters*.

2020 | India's potential for integrating solar and on- and offshore wind power into its energy system

T. Lu, P. Sherman, X. Chen, S. Chen, X. Lu & M. B. McElroy. *Nature Communications*.

2020 | Historical and future roles of internal atmospheric variability in modulating summertime Greenland Ice Sheet melt

P. Sherman, E. Tziperman, C. Deser & M. McElroy. *Geophysical Research Letters*.

2020 | Offshore wind: An opportunity for cost-competitive decarbonization of China's energy economy

P. Sherman, X. Chen & M. McElroy. *Science Advances*.

2016 | Modeling marine surface microplastic transport to assess optimal removal locations

P. Sherman & E. van Sebille. *Environmental Research Letters*.

Full publication list: petersherman123.github.io/publications/

COMPUTING AND MODELS

Python, PyTorch, SQL, R, Linux, AWS, GIS, Google Earth Engine, MLflow, Airflow, and Streamlit. Climate-model experience includes CESM, GEOS-Chem, and UKESM.