PETER J. SHERMAN
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EDUCATION AND SKILLS

Harvard University Graduate School of Arts and Sciences, Cambridge, MA   Expected May 2022
- **PhD candidate** in Earth Planetary Sciences (EPS): focus on atmospheric research and climate change.
- **GPA** – 3.85.
- **Honors/Awards** – Skaff Family Graduate Environmental Fellowship recipient. The Derek Bok Center Certificate of Distinction and Excellence in Teaching Award (fall 2018 and 2019).
- **Graduate Student Council** – Representative for Department of Earth Planetary Sciences from 2018-present.
- **Memberships** – Sigma Xi, Air & Waste Management Association.

Imperial College London, London, UK   June 2017
- **MSc**– Degrees in Physics (4-year Bsc/Msci degrees).
- **Upper Class Honors** – 2:1.

Computing Skills   Current
- **Modelling skills-** CESM, GEOS-Chem, UKESM.
- **Programming languages-** MATLAB, Python, R, Linux, HPC, AWS, SQL, HTTP.

WORK EXPERIENCE

*Research Supervisor, **Harvard University***:   February 2020 – Present
- Supervise a Harvard undergraduate on a project where we aim to project changes to electricity demand from air conditioning in the CMIP6 simulations.
- Meet with her weekly to discuss updates and ideas going forward.

*Remote Basketball Operations Analyst, **Minnesota Timberwolves***:   September 2019 – Present
- Analyze player tracking data for the Minnesota Timberwolves.

Research Assistant/Teaching Fellow, **Harvard University- EPS**, Cambridge, MA: September 2017 – Present
- Conduct research on regional climate change and the integration of renewable technologies.
- Manage lab and sections for the Harvard College undergraduate course SPU14: *How to Build a Habitable Planet* and GENED1137: *The Challennge of Human Induced Climate Change*.
- Participate in Head Teaching Fellow (TF) workshops.
- Authored a TF manual for SPU14: *How to Build a Habitable Planet*.

Longform Blog Editor, **Science in the News,** Harvard University, Cambridge, MA: October 2017 – September 2019
- Manage writing and editing of longform blog articles for Harvard's graduate student-run science outreach website.

Lab Demonstrator, **Imperial College London**, London, UK: March 2017 – June 2017
- Supervised first-year physics students in wave experiments.
- Advised students on writing clear and effective lab reports.

Virtual Intern Editor, **Climate Institute,** Online: May 2015 – June 2017
- Edited papers and presentations by distinguished scientists affiliated with the Climate Institute.

Writer, **I,Science**, London, UK: November 2014 – June 2017
- Reported for Imperial College London's student-run science online and print magazine.
- Published eight blog and print articles on topics ranging from robotic dolphins to the increasing concern for climate change health risks.

Academic Mentor, **EXSCITEC,** Imperial College London, London UK: February 2014 – August 2015
- Taught physics and math to students preparing for A-level examinations.
- Led outreach activities to mentor and inspire youth to study STEM.

Writer and Editor, **SB Nation Blog** *Pound the Rock,* Online: August 2013 – March 2018
- Wrote for the San Antonio Spurs team blog (by PSherman42).

- Published over 100 articles (eight of which were featured in *Best of SB Nation NBA*) covering the team's game performance by using statistical analysis.

PUBLICATIONS

- **Sherman, P.**, ..., *Submitted*: Sensitivity of the Indian Monsoon to regional aerosol emissions. Geophysical Research Letters.
- Lu, T., **Sherman, P.**, Chen, X., Chen, S., Lu, X., and McElroy, M.B., *Submitted*: India's potential for integrating solar and on- and offshore wind power into its energy system. Nature Communications.
- **Sherman, P.**, Tziperman, E., Deser, C., and McElroy, M.B., 2020: Historical and future roles of internal variability in modulating Greenland Ice Sheet melt. Geophysical Research Letters.
- **Sherman, P.**, Chen, X., and McElroy, M.B., 2020: Offshore wind: an opportunity for cost-competitive decarbonization of China's energy economy. Science Advances.
- **Sherman, P**., Gao, M., Song, S., Ohiomoba, P., Archibald, A., and McElroy, M.B., 2019: The influence of dynamics and emissions changes on China's wintertime haze. Journal of Applied Meteorology and Climatology.
- Gao, M., … **Sherman, P.**, …, 2019: Ozone Pollution over China and India: Seasonality and Sources. Atmospheric Chemistry and Physics.
- Gao, M., **Sherman, P.**, Song, S., Yu, Y., Wu, Z., and McElroy, M.B., 2019: Seasonal prediction of Indian wintertime aerosol pollution using the Ocean Memory Effect. Science Advances.
- Gao, M., … **Sherman, P.**, …, 2019: China's emission control strategies have suppressed unfavorable influences of climate on wintertime PM2.5 concentrations in Beijing since 2002. Atmospheric Chemistry and Physics.
- **Sherman, P.** and Archibald, A., 2019: The Urban Heat Island (UHI) is a major source of uncertainty in projections of population-weighted surface temperature under climate change. EarthArXiv.
- **Sherman, P.**, Chen, X., and McElroy, M.B., 2017: Wind-generated electricity in China: decreasing potential, inter-annual variability and association with changing climate. Scientific Reports.
- **Sherman, P.** and van Sebille, E., 2016: Modeling marine surface microplastic transport to assess optimal removal locations. Environmental Research Letters.

POSTERS AND PRESENTATIONS

- The influence of North Atlantic sea surface temperatures on aerosol loading in China (Poster) – AGU (December 2018).
- The influence of North Atlantic sea surface temperatures on aerosol loading in China (Presentation) – Harvard University EPS First-Year Symposium (Septemer 2018).
- Modeling marine surface microplastic transport to assess optimal removal locations (Presentation) – Centre Councillor for the Chartered Institution of Wastes Management Open Meeting on Offshore Wastes – London Borough of Newham (July 2017).