

PETER J. SHERMAN

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EDUCATION

Harvard University

- PhD candidate in Earth and Planetary Sciences – focus on Climate Dynamics
- GRE: 168Q, 162V, 4.5W, 900 Physics
- Skaff Family Graduate Environmental Fellowship recipient

Cambridge, MA
Expected May 2022

Imperial College London

- MSci degrees in physics
- 2:1 Upper Class Honors

London, UK
June 2017

RESEARCH EXPERIENCE

University of Cambridge

Summer Researcher

- Investigated the influence of the Urban Heat Island effect on the global climate to assess the importance of its inclusion in future climate models, under the supervision of Dr. Alex Archibald.
- First-authored a research paper pending publication in *Geophysical Research Letters*.

Cambridge, UK
June – August 2017

Harvard China Project

Research Assistant

- Derived wind data from assimilated meteorological information to analyze inter-annual wind variation over China and Mongolia, under the supervision of Dr. Michael B. McElroy and Dr. Xinyu Chen.
- First-authored a research paper published in *Scientific Reports* (Sherman, P., X. Chen, M. McElroy. (2017). *Wind-generated Electricity in China: Decreasing Potential, Inter-annual Variability and Association with Changing Climate*. *Scientific Reports* 7. 16294.)

Cambridge, MA
July – September 2016

Imperial College London

Third-year Researcher

- Projected global green technology costs to 2030 for various climate policy scenarios working for Dr. Ajay Gambhir.
- Received a first-class mark for the presentation and final report.

London, UK
December 2015 – June 2016

Grantham Institute

Research Assistant

- Modeled the transport of microplastics through the oceans to determine the optimal marine plastic removal locations for two scenarios: removing the most surface plastic and reducing the ecosystem impact, under the supervision of Dr. Erik van Sebille.
- First-authored a research paper in *Environmental Research Letters* (Sherman P. and van Sebille E. (2016) *Modeling marine surface microplastic transport to assess optimal removal locations*. *Environ. Res. Lett.* **11** 014006).

London, UK
July – December 2015

Imperial College London

First-year Researcher

- Investigated Earnshaw's Theorem with spin-stabilized levitation using a lab-made Levitron.
- Displayed findings at end-of-year *Open Days*, an academic forum for prospective undergraduate students.
- Received a first-class mark for the presentation and final report.

London, UK
April – June 2014

WORK EXPERIENCE

Harvard University

Teaching Fellow

- Manage lab and section for 11 Harvard College undergraduates taking SPU14: *How to Build a Habitable Planet*.
- Teach and advise students during scheduled class lectures and during regular weekly office hours.

Cambridge, MA
September 2018 – Present

Science in the News (SITN), Harvard University

Cambridge, MA

- Longform Blog Editor* October 2017 – Present
- Manage writing and editing of longform blog pieces for Harvard's graduate student-run science outreach website.
- Imperial College London** London, UK
Lab Demonstrator May 2017
- Supervised first-year physics students in wave experiments.
 - Provided guidance on writing lab reports.
- Climate Institute** Online
Virtual Intern May 2015 – Present
- Edit papers and presentations by scientists affiliated with the Climate Institute.
- EXSCITEC at Imperial College London** London, UK
Academic Mentor February 2014 – August 2015
- Taught physics and math to UK students preparing for A-level exams.
 - Led outreach activities to mentor and inspire youth to study STEM.
- I, Science*** – Imperial College London Science Magazine London, UK
Writer November 2014 – June 2017
- Wrote blog and print articles on current science-related topics for Imperial College's science magazine.
 - Published six articles to date.
- SB Nation Blog *Pounding the Rock*** Online
Writer and Editor August 2013 – Present
- Write for the San Antonio Spurs team blog (by PSherman42).
 - Published 92 articles to date, eight of which were honored in *Best of SB Nation NBA*.

OTHER PUBLICATIONS

- ***Climate Alert*** – Climate Institute Blog
 - *THE MADDEN-JULIAN OSCILLATION* – Posted on June 14, 2016.
<http://climatealert.info/2016/06/14/the-madden-julian-oscillation/>
- ***Earth Systems, Impacts & Adaptation*** – Grantham Institute Blog
 - *WHERE CAN WE BEST TACKLE THE OCEAN PLASTICS PROBLEM?* – Posted on September 8, 2015.
<https://granthaminstitute.wordpress.com/2015/09/08/where-can-we-best-tackle-the-ocean-plastics-problem/>
- ***I, Science*** – (online and print versions)
 - *INCREASING CONCERN FOR CLIMATE CHANGE HEALTH RISKS* - Posted on March 30, 2017.
<http://isciencemag.co.uk/news/increasing-concern-for-climate-change-health-risks/>
 - *UNDERESTIMATING THE RISE IN GLOBAL SEA LEVEL* - Posted on November 13, 2016.
<http://isciencemag.co.uk/uncategorized/underestimating-sea-level-rise/>
 - *'IRON RAIN' FELL ON EARLY EARTH* - Posted on April 2, 2015.
<http://www.isciencemag.co.uk/news/iron-rain-fell-on-early-earth/>
 - *LIMITLESSLY 'SELF-STRETCHING' MATERIAL ENGINEERED* - Posted on March 2, 2015.
<http://www.isciencemag.co.uk/news/limitlessly-self-stretching-material-engineered/>
 - *MARS ROVER DISCOVERS ORGANIC MATERIALS IN MARTIAN ATMOSPHERE AND ROCKS* - Posted on January 28, 2015.
<http://www.isciencemag.co.uk/news/mars-rover-discovers-organic-materials-in-martian-atmosphere-and-rocks/>
 - *ROSETTA DATA PROVIDES NEW INSIGHT ON THE ORIGIN OF EARTH'S WATER* - Posted on January 22, 2015.
<http://www.isciencemag.co.uk/news/rosetta-data-provides-new-insight-on-the-origin-of-earths-water/>
 - *MAKING TIME* - Posted on December 31, 2014.
<http://www.isciencemag.co.uk/features/making-time/>
 - *'ROBOTIC DOLPHINS' INVESTIGATE THE ANTARCTIC MELTDOWN* - Posted on November 26, 2014.
<http://www.isciencemag.co.uk/news/robotic-dolphins-investigate-the-antarctic-meltdown/>