

Curriculum Vitae - Dr. Catlin Powers

Work experience

December 2014 – present



Co-Founder & CEO - One Earth Designs

One Earth Designs is pioneering solar powered cooking for families around the world through our high-performance SolSource Solar Stoves and novel energy storage technologies. Our team is committed to delivering high-quality products that are sustainably manufacturing and have positive social impact. We hold one of the highest Global Impact Ratings (GIIRS) yet awarded and are on the B Corp Best for the World List, honoring the world's most responsible companies.

January 2009 – present

Board and Advisory Positions

- International Standards Organization, US Technical Advisory Group Member (ISO 285) (2014-present)
- Solar Cookers International (2014-present)
- Pentok Institute (2009-2014)
- Clinton Global Initiative University - Technology Portfolio (2011)
- Harvard Hauser Center for Nonprofit Management (2010)
- Harvard Global Health Review (2010)

January 2008 – present

Co-Founder & Director – OneEarthDesigns.org

Bringing cleaner air to families around the world through the Non-Profit arm of One Earth Designs.

January 2015 – present

Lecture – Harvard University

- E157 - Sustainable Business & Technology
- E168 - Social Entrepreneurship in Health & the Environment



June 2014 – present

Harvard CHANGE Fellow – Center for Health and the Global Environment at Harvard School of Public Health



Exploring new models for accelerating high-impact social change innovations. Advancing research on the connection between human health and our environment and accelerating the changes needed to ensure a healthy, sustainable, and prosperous future.

December 2013 – December 2014
One Earth Designs – Co-Founder & COO



September 2009 – May 2014
Doctoral Researcher – Harvard School of Public Health



Conducted research on household air pollution in China and community-driven design of clean energy technologies for cooking and heating. Raised grant funds and set up a research site in Qinghai, China with 12 employees. Designed randomized control trial with multi-phase measurement approach. Ran 5-year study on impact of different energy interventions (improved biomass stoves, electricity, gas, and solar) on health and family economics. Selected instrumentation and developed surveys and field protocols. Validated and ran in-field and in-lab quality control procedures for PM2.5, CO, COHb, HR, O2-sat data. Developed proficiency in R programming.

July 2008 – December 2008
Exposure Scientist – EA Engineering, Science and Technology, Inc.



Conducted natural attenuation assessments of multi-phase aquatic contaminant plumes and built remediation strategies for groundwater contamination in the eastern US.

February 2008 – May 2008
Carbon Consultant – Amoda Environmental Solutions

Developed clean energy projects through carbon markets: solar, hydro, & methane recapture.

September 2007 – December 2007
Exposure Scientist – Brabander Geochemistry Lab

Analyzed lead arsenical pesticide contamination in New England orchards using XRF and developed soil remediation strategies.

October 2007 – November 2007
Policy Consultant – Lowell Centre for Sustainable Production

Developed policy recommendations for green chemistry innovation incubation.

February 2007 – May 2007
Policy Consultant – Philip Saunders & Associates

Built economic case to strengthen 'No Net Loss of Public Lands', Article 97, Mass. Constitution.

July 2006 – August 2006
Climate Consultant – Alliance for Global Sustainability

Developed international policy recommendations for climate change mitigation. Recommendations presented at Academia Engelberg 2007.



Patents

- **Solar Concentrator Assembly and Methods of Using Same**

Granted: January 2010

Inventor: Catlin Powers, Orian Welling, Scot Frank, Amy Qian, Brad Artziniega, Reja Amatya, Rajeev Ram

- **Adjustable Solar Concentrator & Materials**

Inventor: Catlin Powers, Scot Frank

Education

2011 – 2014

Harvard T.H. Chan School of Public Health
SD, Environmental Health

2009 – 2011

Harvard University School of Public Health
MS, Environmental Health

2004-2009

Wellesley College
BS, Chemistry

2004 – 2009

Wellesley College
BA, Environmental Studies

Certificates and Awards

- 2013** – Melvin M First Fellowship – Harvard University
- 2012** – EU Environmental Laureate – EU Environment Foundation
- 2012** – Unreasonable Institute Fellowship – Unreasonable at Sea
- 2010** – People, Planet and Prosperity Grant II – US Environmental Protection Agency
- 2010** – Sustainable Technology Award – American Institute of Chemical Engineers
- 2010** – International Research in Engineering Grant – US National Science Foundation
- 2009** – Granz Prize – St. Andrews Prize for the Environment – St. Andrews Prize for the Environment
- 2009** – Young Scientist Award – Sigma Xi Scientific Research Society
- 2009** – Graduate Research Fellowship – US National Science Foundation
- 2009** – People, Prosperity and Planet Award I – US Environmental Protection Agency
- 2009** – Camilla Chandler Frost Prize for Innovation in the Biological Sciences – Wellesley College
- 2009** – Lemelson-MIT International Technology Award – Lemelson Foundation
- 2009** – MIT IDEAS Competition Award – MIT
- 2009** – Elizabeth F Fisher Fellowship – Wellesley College
- 2009** – Joseph and Octavia Goodbar Scholarship – Harvard University
- 2009** – Howard Hughes Medical Institute Grant – Howard Hughes Medical Institute
- 2009** – MIT 100K Development Track Winner – MIT 100K
- 2008** – Pamela Daniels Research Fellowship – Pamela Daniels Institute / Wellesley College
- 2008** – Clinton Global Initiative Award – CGIU
- 2008** – Muhammad Yunus Innovation Award – MIT
- 2008** – MIT IDEAS Competition Award