# **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.



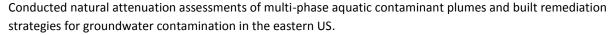
## September 2009 - May 2014

#### **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 programing.

# July 2008 – December 2008

### Exposure Scientist - EA Engineering, Science and Technology, Inc.



#### 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 Schoolarship 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