Ardon Z. Shorr

Creative scientist, founder of science communication program

- Developed 12 workshops in science communication, teaching over 500 faculty and graduate students
- Recognized by NSF-funded program as one of the top 30 innovators in science communication nationwide
- In research, created interdisciplinary tools to expose animals to altered gravity, compress with microfluidics, align with 3D-printing, and machine learning image analysis, leading to three first-author papers in prep

Work Experience

Public Communication for Researchers

Co-founder, Lead Writer & Designer

2012 - 2017

- Developed 12 workshops in a curriculum on science communication
- Taught faculty in Computer Science, 500 students across all STEM departments
- Developed five-year strategic plan, advertising campaigns, graphics, website, blog
- Contributing author to national recommendations on STEM education
- Worked closely in a team to organize events, manage \$10,000 annual budget
- Recognized by Graduate Student Service Award 2015, profiled by NSF

Rorus, Inc.

Co-founder, Chief Technology Officer

2014 - 2015

- Built a chemistry lab, synthesized nanoparticles for a new water purification technology
- Directed communications for successful grants, presentations for investors, technical white papers, scripts for videos, startup contests
- Startup accelerator training in AlphaLab Gear, Pittsburgh, and Founder.org, Stockholm

Education

Carnegie Mellon University

Ph.D. in Biology expected September 2018

Graduate Research Fellow with the National Science Foundation

2018 Certificate in Teaching Excellence

Oberlin College

B.A. in Neuroscience with Chemistry Minor B.A. in Music Theory with Honors Thesis 2009

Research Summary

Life on Earth evolved under the influence of gravity. After gravity deprivation, astronauts come back with health problems that resemble premature aging. It's still unclear how living things sense gravity, in part because experiments focus on only a few animals at a time. So I lead an interdisciplinary team to develop new devices that can deliver mechanical force to hundreds of fruit flies, and software tools to analyze the results. By learning how living things sense mechanical force, we can develop new treatments for mechanical dysfunctions, such as agerelated diseases and space travel.

Workshops Developed in Science Communication

Presentation skills Telling science stories Crafting metaphorical explanations

Scientific graphic design Distilling your message Why are facts not enough?

Vocal delivery Talking to the media Motivated reasoning and cultural cognition

Getting jobs outside academia Theater techniques Intro to strategic frame analysis

Presentations

Faculty Media Training Carnegie Mellon University School of Computer Science

2D Story Analysis Stanford University Human-Computer Interaction, San Francisco, CA

Finding your Expert Blindspot Harvard University Strategic Data Project, Boston, MA

Explaining Complexity GSL Labs, San Francisco, CA

Clear Thinking Made Visible AAAS Conference 2015, San Jose, CA

Telling Research Stories Webinar, Texas A&M University

Science Communication Keynote speaker, Indiana University Science Communication Symposium 2018

Why are Facts not Enough? Speaker, Institute for Religion in the Age of Science, Star Island, NH

"Oh, I get it" Panelist, SXSW edu 2017, Austin, TX

<u>The Protein Hustle</u> Director, Dance Your Ph.D.

Understanding Music TEDxCMU, Pittsburgh, PA

Writing in Science Communication

Editorial Consultant Grant & Jay 2017. Breaking Through Gridlock. Berrett-Koehler Publishers

Contributor GradSciComm: Integrating Science Communication into STEM Graduate Education

Author A 5-Year Plan to Build a Science Communication Center

Author Op-ed: *Grad School is Hard on Mental Health*. Chronicle of Higher Education

Author Blog post: A Biologist's Prayer at ScienceNonFiction.org

Honors and Awards

Graduate Research Fellow, National Science Foundation

First place, McGinnis Venture Competition for Pittsburgh Startups

TEDx talk named editor's choice with over 120,000 views

Skills

PresentationStatisticsGraphic designProgrammingKeynoteGraphPad, MathematicaAffinity Designer, PagesJava, LaTeX, ImageJ

Updated June 2018 Ardon Shore