Ardon Shorr

Ardon.Shorr@gmail.com

Ph.D. candidate in biology, NSF Graduate Research Fellow
Experience in writing and presentation

Education

May 2018 (expected)	Ph.D. in Biology	GPA 3.7	Carnegie Mellon University
May 2009	B.A. in Neuroscience	GPA 3.6	Oberlin College
May 2009	B.A. in Music Theory	GPA 3.8	Oberlin College

Research

Carnegie Mellon University, Ph.D. candidate

2011 – 2015

Biological systems experience a wide variety of mechanical forces. Some are chronic and ubiquitous, such as gravity, while others are acute and localized, such as compression. It remains unclear which proteins transduce these mechanical forces. I build devices to apply altered gravity and compression to developing zebrafish and *Drosophila*, and investigate proteomic changes using Difference Gel Electrophoresis. Understanding mechanotransduction can help develop new treatments for diseases with mechanical aspects, such as age-related diseases and space travel.

Scientific Contributions

Moorman SJ, **Shorr AZ**. The primary cilium as a gravitational - force transducer and a regulator of transcriptional noise. Dev Dyn. 2008 Aug; 237(8):1955-9. PubMed PMID: 18366139.

Shorr, AZ., Moorman, SJ. (2008). The primary cilium is a gravity sensor. FASEB J. 22, 981.2.

[Invited workshop] *Scientific Presentation: Clear Thinking Made Visible.* AAAS annual meeting Feb 2015, San Jose, CA

[Contributor] GradSciComm: *Mapping the Pathways to Integrate Science Communication Training into STEM Graduate Education*

Honors and Awards

Aug 2015	Founder.org class of 2016
Jul 2012 – Jul 2015	National Science Foundation Graduate Research Fellow
Mar 2015	First place, McGinnis venture competition
Apr 2015	Graduate Student Service Award
Mar 2012	TEDx talk named editor's choice

Work Experience

Co-founder, lead writer and designer, Public Communication for Researchers (PCR)

Jul 2012 – Jul 2016

- Co-founded professional development program that teaches graduate students to explain their work to many audiences
- Built 12 workshops on technical writing, presentation, visual design
- Profiled by the National Science Foundation
- Recognized as top 30 innovators in science communication nationwide
- The program draws over 500 students representing all STEM departments

Co-founder and Chief Technology Officer, Rorus Inc.

Oct 2014 – Jul 2015

- Technical lead to build and verify a new water purification technology
- Synthesized metal nanoparticles and embedded into paper
- Designed experiments and built a lab to carry them out
- Led the design of written, oral, visual communication
- Wrote successful grants, technical white papers, and presentations for investors, leading to awards and investment

2010 – 2011

Research Technician, University of Medicine and Dentistry of NJ

- Studied brain development in mouse model of autism
- Dissected brains, analyzed by qRT-PCR and *in situ* hybridization
- Maintained lines by genotyping, selective breeding, BBMouse

Summers 2003 – 2009

Rutgers University, Hebrew University, and UMDNJ

Interned in four labs over seven summers:

- Co-authored successful multi-million dollar grant proposal
- Techniques: western blot, co-IP, 2D protein NMR, HF digestion, ICP-MS, thin layer chromatography, stop-flow spectrofluorometry
- Managed supplies, equipment, vendors, lab organization
- Husbandry of mice and zebrafish