Ardon.Shorr@gmail.com

# Ardon Z. Shorr

## Biology Ph.D. candidate

- Created tools: exposure to altered gravity, microfluidic compression, 3D-printed alignment, algorithmic segmentation
- Three first-author manuscripts in preparation
- Graduate Research Fellow with the National Science Foundation

## Science communication

- Co-founder and lead writer for grassroots science communication program at Carnegie Mellon University
- Developed and taught workshops for faculty and graduate students
- Recognized as one of the top 30 innovators in science communication nationwide
- Led communications for a biotech startup, leading to awards and investment

## Education

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|---|---|
| Carnegie Mellon University | Ph.D. in Biology |
| 2018 | *Tools to Examine Mechanotransduction*<br>Certificate in Teaching Excellence |
| Oberlin College | B.A. in Neuroscience |
| 2009 | B.A. in Music Theory |

## Workshops Developed

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|---|---|---|
| Telling science stories | Scientific graphic design | Why are facts not enough? |
| Goal-driven communication | Talking to the media | Motivated reasoning and cultural cognition |
| Distilling your message | Vocal delivery | Intro to strategic frame analysis |
| Crafting explanations | Theater techniques | Communicating across social constructs |

## Presentations

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| **Faculty Media Training** | Carnegie Mellon University School of Computer Science |
| **2D Research Stories** | Stanford University Human-Computer Interaction, San Francisco, CA |
| **Finding your expert blindspot** | Harvard University Strategic Data Project, Boston, MA |
| **Keynote speaker, lecturer** | Indiana University Science Communication Symposium |
| **Explaining complexity** | GSL Labs, San Francisco, CA |
| **Why are facts not enough?** | Institute for Religion in the Age of Science, Star Island, NH |
| **Clear thinking made visible** | AAAS 2015, San Jose, CA |
| **Panelist** | SXSW edu 2017, Austin, TX |
| **Telling research stories** | Texas A&M University webinar rated 4.9 / 5 |
| **Presentations with Purpose** | CMU Alumni webinar rated 4.7 / 5 |
| **Understanding music theory** | TEDxCMU speaker |

## Writing in science communication

Contributor: GradSciComm: Integrating Science Communication Training into STEM Graduate Education.

Editorial consultant: Grant & Jay 2017. Breaking through gridlock. Berrett-Koehler Publishers.

Author: A five-year plan for building a science communication center. Public Communication for Researchers.

Author: Science communication and grad student mental health. Chronicle of Higher Education.

Author: A biologist's prayer. Blog post at ScienceNonFiction.org.

## Peer-reviewed publications

**Shorr AZ**, Sönmez U, LeDuc PR, Minden SJ. Mechanoproteomics.

**Shorr AZ**, Sönmez U, Minden SJ, LeDuc PR. High-throughput mechanotransduction in *Drosophila* embryos with a microfluidic device.

**Shorr AZ,** LeDuc PR. A high-throughput method for exposing zebrafish to altered gravity, aligning for imaging, and segmenting neurons.

Moorman SJ, **Shorr AZ**. The primary cilium as a gravitational force transducer and a regulator of transcriptional noise. 2008;237: 1955–1959.

## Honors and Awards

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|---|---|
| 2012 – 2015 | National Science Foundation Graduate Research Fellow |
| 2015 | Graduate Student Service Award: Public Communication for Researchers |
| 2018 | Third place, 3-minute thesis competition |
| 2016 | Founder.org class of 2016 |
| 2015 | First place, McGinnis venture competition |
| 2012 | TEDx talk named editor's choice with over 120,000 views |

## Work experience

Public Communication for Researchers
2012 – 2017

**Co-founder, Lead Writer & Designer**

- Created 12 workshops, organized and taught 12 events each year
- Produced strategic plans, logos, websites, branding
- Worked with over 500 students representing all STEM departments

Rorus, Inc.
2014 – 2015

**Co-founder, Chief Technology Officer**

- Built a lab, synthesized metal nanoparticles for a water purification technology
- Communications lead for successful grants, scripts for videos, technical white papers, presentations for investors and contests

## Skills

| Presentation | Statistics | Graphic design | Programming |
|---|---|---|---|
| Keynote | GraphPad, Mathematica | Affinity Designer, Pages | Java, LaTeX, ImageJ |