

## Creative scientist, founder of science communication program

- Developed 18 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
- TEDx talk named editor's choice

## Work Experience

### Carnegie Mellon

2018 – present

### Science Communication Specialist

- Developed curriculum of 18 workshops in science communication
- Led 36 events on presentation, writing, and professional development
- Workshops rated 9.4/10, students feel 40% more prepared for future careers

### Public Communication for Researchers

2012 – 2017

### Co-founder, Lead Writer & Designer

- 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.

2014 – 2015

### Co-founder, Chief Technology Officer

- 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

2018

Ph.D. in Biology. Thesis: *Tools to examine mechanotransduction.*

National Science Foundation Graduate Research Fellow

Certificate in Teaching Excellence

### Oberlin College

2009

B.A. in Neuroscience with Chemistry Minor

B.A. in Music Theory with Honors Thesis

## Communication Training

### MIT CommLab

2019

T<sup>2</sup> Training for Trainers in science communication and workshopping student writing

### Alan Alda Center

2012

Stony Brook Center for Science Communication

## Workshops Developed in Science Communication

Giving and receiving feedback	Telling science stories	Crafting metaphorical explanations
Clear thinking made visible	Distilling your message	Why are facts not enough?
Vocal delivery	Talking to the media	Structuring presentation
Abstracts	Theater techniques	Strategic frame analysis

## Presentations

<u>Faculty Media Training</u>	Carnegie Mellon University School of Computer Science
2D Story Analysis	Stanford University Human-Computer Interaction, San Francisco, CA
<u>Finding your Expert Blindspot</u>	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
<u>"Oh, I get it"</u>	Panelist, SXSW edu 2017, Austin, TX
<u>The Protein Hustle</u>	Director, Dance Your Ph.D.
<u>Understanding Music</u>	TEDxCMU, Pittsburgh, PA

## Writing in Science Communication

<u>Editorial Consultant</u>	Grant & Jay 2017. <i>Breaking Through Gridlock</i> . Berrett-Koehler Publishers
<u>Contributor</u>	<i>GradSciComm: Integrating Science Communication into STEM Graduate Education</i>
<u>Author</u>	<i>A 5-Year Plan to Build a Science Communication Center</i>
<u>Author</u>	Op-ed: <i>Grad School is Hard on Mental Health</i> . Chronicle of Higher Education
<u>Author</u>	Blog post: <i>A Biologist's Prayer</i> 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 translated into 9 languages, over 150,000 views

## Skills

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