

# JONATHAN ZONG

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## EDUCATION

### Princeton University

B.S.E. Computer Science & Visual Arts  
GPA: 3.85/4.00 · 2014–2018

### University of Oxford

Visiting Student · January–June 2017

## RESEARCH EXPERIENCE

### Princeton University, Electronic Music Instrument Design

Adviser: Prof. Jeff Snyder · October 2017–Present

- Prototyped electronic and mechanical designs for an Electric Pedal Steel Guitar, a string instrument with a novel interface

### Oxford Internet Institute

Adviser: Dr. Scott Hale · February–June 2017

- Developed data analysis for Transnet, traffic visualization and prediction tool for Oxford County Council using mobility data from Google

### Princeton University, Dynamics and Controls

Adviser: Prof. Naomi Leonard · September–December 2016

- Applied interactive machine learning to improve the decision-making of an agent in a contextual multi-armed bandit problem using human feedback

### MIT Media Lab, Fluid Interfaces

Adviser: Tal Achituv · January 2016

- Designed control software in Arduino and Node.js for Project Express, an assistive tool for people with physical disabilities to paint by robotic airbrush

## WORK EXPERIENCE

### Google, Material Design

UX Engineering Intern · June–September 2017

- Designed and implemented tools for motion designers to create interactive visualizations for the public-facing Material Design Guidelines

### Linked By Air

Design Intern · Peter B. Lewis Fund Award · June–August 2016

- Designed and built web interfaces with studio for clients including Printed Matter, Columbia University GSAPP, NYC Councilman Brad Lander

### Square

Software Engineering Intern · June–August 2015

- Improved user experience of Online Store checkout by integrating buyer logins and payment card linking using Ember, Backbone, Java

### Coursera · KPCB Engineering Fellow

Infrastructure Engineering Intern · June–August 2014

- Improved feature set of internal server provisioning tools, deployment processes, and error monitoring relied on by all teams using Scala

## EXHIBITIONS

### Faire Signe · Biennale de design graphique, Chaumont, France

You Have Agency · May–September 2017

- Interactive tool depicting the exchange relations that tie consumers to the Trump Administration (3rd place in juried international student competition)

### The VIS Junior Show · Butler Gallery, Princeton University

*i am jonathan zong by joe scanlan* · April–May 2017

- Installation exploring identity, authorship, and time; with Drew Wallace

### Graphic Arts Collection · Firestone Rare Books Library, Princeton University

*Nap Poems* · May 2016

- Letterpress edition of original poetry commissioned from Letterpress Club by poets Monica Youn, Rowan Ricardo Phillips, Michael Dickman, and Ben Lerner

## SELECTED PROJECTS

3rd Person Self VR · 2017

Controlling yourself in the third person with mounted camera streamed to VR

PolitEcho · Facebook Global Hackathon Honorable Mention · 20,000+ users · 2016

Personal visualization of political bias in Facebook news feed using friend data

Light Remote · 2016

Augmented reality interface for direct manipulation of theatrical lighting

3d-print-letterpress · 2015

Library to convert font files to 3d-printable models of usable letterpress type

Hermes Keyboard · Greylock Hackfest 1st Place · 2015

Assistive agent that links actions from apps using conversational context

GameCalc · HackRice 1st Place · 2014

Gamified calculator where players unlock the buttons by doing calculations

Smart Windows · MIT THINK Scholarship · 2014

Energy efficient windows that algorithmically change tint using sensor data

DeuterIDE · 10,000+ installs · 2012

Mobile-friendly editor interface to write and run code in many languages

## LEADERSHIP AND COMMUNITY

Council on Science and Technology, Princeton · Student Ambassador · 2016-Present

Lead electronics and fabrication workshops in the StudioLab makerspace

Design Summer · Founder, Lead Organizer · 2015–2016

Founded group of 800+ design interns, co-hosted events with companies like Facebook, Airbnb, IDEO; raised \$2000 sponsorship from Khosla Ventures

Princeton Letterpress Club · President · 2015–2017

Raised department funding from English, Visual Arts, Creative Writing

Princeton Entrepreneurship Club · Design Director · 2014–2016

Princeton University Sinfonia · Cellist, Graphic Designer · 2014–Present

## HONORS AND SCHOLARSHIPS

- Santos-Dumont Prize for Innovation, Princeton University · 2017
- Tau Beta Pi Scholarship · \$2000 · 2017
- Students All to Chaumont, le Signe · 3rd Place, €500 · 2017
- Facebook Global Hackathon Finals · Honorable Mention · 2017
- Peter B. Lewis Summer Fund for the Arts · \$2000 · 2016, 2017
- Andreesen Horowitz Generation Design Mentorship Program · 2016
- Greylock Hackfest, Greylock Partners · 1st Place, \$10,000 · 2015
- HackRice, Rice University · 1st Place, \$1000 · 2014
- KPCB Engineering Fellowship · 2014
- MIT THINK Scholars · \$2000 · 2014
- Eagle Scout · 2012

## SELECTED PRESS

PolitEcho

- Challenge everything you think – democracy depends on it  
*The Guardian* · April 27, 2017
- Social media's effect on democracy is "Alexander Hamilton's nightmare"  
*Quartz* · March 17, 2017
- Popping your political filter bubble  
*Al Jazeera* · March 7, 2017
- How to Escape Your Political Bubble for a Clearer View  
*New York Times* · March 3, 2017
- This browser extension shows how biased your social media feed is  
*A.V. Club* · December 2, 2016
- Find out just how biased your Facebook feed is with this Chrome extension  
*Mashable* · December 2, 2016
- A Browser Extension That Shows You Your Filter Bubble  
*New York Magazine* · November 30, 2016

Smart Windows

- A Window of Opportunity  
*Imagine Magazine, Johns Hopkins University* · Vol 22#5, May/June 2015