

JONATHAN ZONG

www.jonathanzong.com
(832) 769 1958
jonathan@jonathanzong.com

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

PAPERS

Experiment Debriefing with Generative Visualizations of Causal Data
Undergraduate thesis in Computer Science (Adviser: J. Nathan Matias)

Quantifying the benefits of real-time data for traffic prediction and management
Graham McNeill, Scott A. Hale, Jonathan Bright, and Jonathan Zong (*in-progress*)

SELECTED PROJECTS

Wave Fanfare · 2017

Gestural theatrical lighting interface for live music performance

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

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

3d-print-letterpress · 2015

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

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
- Andreessen 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