JONATHAN ZONG

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EDUCATION

Massachusetts Institute of Technology

2018–   Ph.D. Electrical Engineering & Computer Science

Minor in Science, Technology, and Society

`Advisor: Arvind Satyanarayan`

2018–2020 S.M. Computer Science

Princeton University

2014–2018 B.S.E. Computer Science

`Advisor: J. Nathan Matias`

Certificate in Visual Arts

`Advisor: David Reinfurt`

University of Oxford

Spring 2017 Visiting Student

RESEARCH EXPERIENCE

Visualization Group, MIT Computer Science and Artificial Intelligence Lab

2018–   Graduate Research Assistant

`Advisor: Arvind Satyanarayan`

Citizens and Technology Lab, Cornell University

Jun–Aug 2020 Graduate Research Fellow

`Mentor: J. Nathan Matias`

Center for Information Technology Policy, Princeton University

2017–2018 Undergraduate Researcher

`Advisor: J. Nathan Matias`

Oxford Internet Institute, University of Oxford

Feb–Jun 2017 Undergraduate Researcher

`Mentor: Scott Hale`

Fluid Interfaces Group, MIT Media Lab

Jan 2016   Undergraduate Researcher

`Mentor: Tal Achituv`

WORK EXPERIENCE

Google Research, AI UX Team

Jun–Sep 2018 UX Engineering Intern

Google Design, Material UX Team

Jun–Sep 2017 UX Engineering Intern

Linked by Air

Jun–Aug 2016 Software and Design Intern

Square

Jun–Sep 2015 Software Engineering Intern

Coursera

Jun–Aug 2014 Software Engineering Intern (KPCB Engineering Fellow)

AWARDS & HONORS

2020   **Schnitzer Prize in the Visual Arts, MIT**

2019   **Paul and Daisy Soros Fellowship for New Americans**

NSF Graduate Research Fellowship

Hertz Foundation Fellowship Finalist

2018   **Lucas Award in Visual Arts, Princeton University**

NSF Graduate Research Fellowship Honorable Mention

2017	**Santos-Dumont Prize for Innovation, Princeton University**
	Tau Beta Pi Scholarship
	Students All to Chaumont 3rd Place, Centre National du Graphisme
	Peter B. Lewis Summer Fund for the Arts
2016	**Facebook Global Hackathon Finals Honorable Mention**
2015	**Greylock Partners Hackfest, 1st Place**
2014	**HackRice, 1st Place, Rice University**
	KPCB Engineering Fellowship
	MIT THINK Scholars
2012	**Eagle Scout**

PUBLICATIONS

PEER-REVIEWED PUBLICATIONS

2020. **Representing Real-Time Multi-User Collaboration in Visualizations**. Rupayan Neogy, Jonathan Zong, Arvind Satyanarayan. *IEEE Visualization Conference (VIS)*.

2020. **Lyra 2: Designing Interactive Visualizations by Demonstration**. Jonathan Zong, Dhiraj Barnwal, Rupayan Neogy, Arvind Satyanarayan. *IEEE Transactions on Visualization and Computer Graphics (IEEE VIS)*.

2019. **Unruly Cyborgs: The Relational Set Designs of Isamu Noguchi**. Jonathan Zong. *Liminalities: A Journal of Performance Studies*.

MAGAZINE ARTICLES

2020. **From Individual Consent to Collective Refusal**. Jonathan Zong. *ACM XRDS (Crossroads)*.

WORKSHOPS, CONFERENCES, POSTERS, AND DEMOS

2021. **Design Spaces of Domain-Specific Languages: Comparing and Contrasting Approaches in PL and HCI**. Jonathan Zong*, Josh Pollock*, Dylan Wootton, Arvind Satyanarayan. *PLATEAU Workshop on the Intersection of HCI and PL*.

2021. **Pointing, Mutual Intelligibility, and the Seeing Subject in HCI**. Jonathan Zong. *Computer Mouse Conference*.

2020. **The (Minimal) Persuasive Advantage of Political Video over Text**. Chloe Wittenberg, Adam Berinsky, Jonathan Zong, David Rand. *International Conference on Computational Social Science*.

2020. **Lyra: An Interface for Designing Interactive Visualizations**. Jonathan Zong, Dhiraj Barnwal, Rupayan Neogy, Arvind Satyanarayan. *Computation + Journalism Symposium*.

2020. **Collective Refusal and the Limits of Informed Consent for Data Protection**. Jonathan Zong, J. Nathan Matias. *Data & Society Contested Data Workshop*.

2018. **Automated Debriefing: Interface for Large-Scale Research Ethics**. Jonathan Zong, J. Nathan Matias. *Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing. (Best Demo Award)*.

THESES

2018. **Empirically Studying Research Ethics with Interface Designs for Debriefing Online Field Experiments**. *B.S.E. Thesis, Princeton University*.

TALKS & PRESENTATIONS

INVITED TALKS

2020. **Designing Systems to Theorize Collective Power**. *Digital Theory Lab, NYU Media, Culture, and Communication*.

2020. **Layered Abstractions for Interactive Visualization Design**. *Digital Structures Group, MIT Department of Architecture*.

2019. **"The Most Liberal of Arts"**. *Lewis Center for the Arts, Princeton University*.

2018. **Public Accountability in Research Ethics**. *CivilServant Research Summit, MIT Media Lab*.

CONFERENCE TALKS

2020. **Public Display and Biometric Sans: Embodied Writing in the Age of Data**. *Before and Beyond Typography, Stanford University Department of History*.

2019. **In Our Own Image: The Autonomy of Artificial Bodies in Synthetic Porn**. *Panel: Internet Connection · Theorizing the Web*.

PUBLIC SCHOLARSHIP

OP-EDS

2019. **The Struggle to Democratize MIT**. Rodrigo Ochigame, Alan Lundgard, Alonso Espinosa Dominguez, Jonathan Zong, Gabrielle Ballard, Sally Haslanger, Edmund Bertschinger, Mani Mengiste, Ruth Perry. *The Tech (MIT)*.

2019. **Consent Is Not an Ethical Rubber Stamp**. Crystal Lee*, Jonathan Zong*. *Slate*.

2018. **Researching the Researchers: Ethics and Privacy in Institutional Research**. Jonathan Zong. *Nassau Weekly*.

CONVERSATIONS

2021. **Form, Content, Data, Bodies: Jonathan Zong and Beth Semel on Biometric Sans**. Jonathan Zong, Beth Semel. *Somatosphere*.

2021. **Holly Herndon in conversation with Tabea Nixdorff and Jonathan Zong**. *Version Space*.

2018. **w-t-f: a conversation with Eric Li and Jonathan Zong**. *Lewis Center for the Arts, Princeton University*.

DATA JOURNALISM

2021. **The Data Visualizations Behind COVID-19 Skepticism**. Crystal Lee, Jonathan Zong, Anna Arpaci-Dusseau, Katherine Huang, Mateo Monterde, Ethan Nevidomsky, Tanya Yang, Anna Meurer, Soomin Chun, Arvind Satyanarayan. *MIT Visualization Group*.

TEACHING

2020	**AI, Justice, Imagination: Technology and Speculative Fiction**	
	Tufts University Experimental College	
	`Adjunct Lecturer (co-instructor with Janet Zong York)`	

EXHIBITIONS

2020	**WRECKED ALPHABET**. *Marcel Broodthaers Society of America*.
	BODY TEXT. *Wiesner Gallery, MIT*.
2018	**w-t-f**. *Lucas Gallery, Princeton University*.
	Internet Yami-Ichi. *Rhizome, New Art Dealers Alliance*.
2017	***a graphic design exhibition***. *Princeton University and IN-FO.CO, Los Angeles*.
	Faire Signe. *Biennale de design graphique, Chaumont, France*.

COLLECTIONS

2018	**Van Alan Clark, Jr. Library, School of the Museum of Fine Arts, Tufts University**
2016	**Graphic Arts Collection, Firestone Library, Princeton University**

ART BOOK FAIRS

2019	**Tiny Tech Zines, Navel LA**
	`with Free Radicals`
2019	**Press Play, Pioneer Works**
	`with Tech Zine Fair`
2018	**Odds and Ends, Yale University**
	Zine Soup 3.0: Makers Market, Chinatown Soup
	NY Tech Zine Fair, School for Poetic Computation
	Boston Art Book Fair, Boston Center for the Arts

STUDENT MENTORSHIP

M.ENG. STUDENTS

2020–21   EJ Sefah, Katie Bacher

2019–20   Rupayan Neogy

UNDERGRADUATE STUDENTS

Summer 2021   Joon Jang

Fall 2020   Anna Arpaci-Dusseau, Katherine Huang, Mateo Monterde, Ethan Nevidomsky, Tanya Yang, Anna Meurer, Soomin Chun

SERVICE

PEER REVIEWING

2021   IEEE VIS, ACM CHI

SELECTED PRESS

QUOTED

2021. **Digital exclusions: mental health and digital life**. *Our Sick Society Podcast*.

2020. **Facial Recognition Software: Masks, Ethics & The Future**. *Forbes*.

2019. **The Dark Implications of Facial Swap Filter Technology**. *Paper Magazine*.

FEATURED

2021. **Helping data journalists create interactive graphics**. *MIT CSAIL News*.

2020. **Students Plumb Barriers of Sound, Space, and Sight at MIT**. *Arts at MIT*.

2020. **Bezos, Bodies, and Backprop**. *The Tech (MIT)*.

2018. **PolitEcho: A Mirror for the "Daily Me"**. *Frontier Magazine*.

2017. **How to Escape Your Political Bubble for a Clearer View**. *The New York Times*.

2016. **This browser extension shows how biased your social media feed is**. *A.V. Club*.

2016. **Find out just how biased your Facebook feed is with this Chrome extension**. *Mashable*.

2016. **A Browser Extension That Shows You Your Filter Bubble**. *New York Magazine*.