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J. Nathan Matias, Ph.D.

I study the governance of human and machine behavior in democracies by combining ethnographic methods with large-scale, mass-replicated field experiments. My work grows knowledge at the boundaries of sociology, social psychology, and computer science by studying large-scale attempts at social change.

Recent Research Positions

Princeton University

2017–present. Postdoctoral Research Associate, Princeton Psychology Department, Sociology Department, and Center for Information Technology Policy

Massachusetts Institute of Technology

2011–2017. Research Assistant, *MIT Center for Civic Media, MIT Media Lab*

Harvard University

2016–2017. Affiliate, *Berkman Klein Center for Internet and Society*

2013–2016. Fellow, *Berkman Klein Center for Internet and Society*

Microsoft Research

2015. PhD Summer Intern. Social Media Collective, Cambridge, MA

2013. PhD Summer Intern. Fuse Labs, Redmond, WA

Education

Massachusetts Institute of Technology

2013–2017. PhD in *Media Arts and Sciences*. Committee: Ethan Zuckerman, Elizabeth Levy Paluck, and Tarleton Gillespie. [GPA: 5.0/5.0]

General examinations in: (1) civic values in social technologies; (2) quantitative analysis of online behavior; (3) digital labor. General examination committee: Ethan Zuckerman, Mary Gray, Benjamin Mako Hill.

2011–2013. Masters of Science in *Media Arts and Sciences* from MIT Media Lab

[GPA: 5.0/5.0] Committee: Ethan Zuckerman, Kate Crawford, Tom Steinberg.

University of Cambridge

2006–2008. Bachelor of Arts hon, Master of Arts, Cantab. *English Literature* [ii.1]

Elizabethtown College

2006–2008. Bachelor of Arts. *English Literature, Computer Science minor* [GPA: 3.94]

Notable Experience

Notable Employment Experience

2010–2011. *SwiftKey*, London, UK. Language Solutions Development. Extended predictive text coverage internationally, developing software and business processes from research systems. SwiftKey reached over a billion users before its acquisition by Microsoft in 2016.

2008–2010. *Texpts, Knowledge Generation Bureau*. Cambridge, UK. instrumentation, large-scale user modeling, and performance testing software for expansion into new markets and for our Super Bowl television ad in 2010. Designed systems to facilitate labor relations in microwork and human computation. Research liaison for partnerships with academic data scientists.

Publications **Refereed Articles and Conference Proceedings**

2017. Matias, J. N., Szalavitz, S., Zuckerman, E. FollowBias: Supporting Behavior Change Toward Gender Equality by Networked Gatekeepers on Social Media. *In Proceedings of the 20th ACM Conference on Computer Supported Cooperative Work & Social Computing*. ACM Press, 2017. [forthcoming]
2016. Matias, J. Nathan. The Civic Labor of Online Moderators. *Oxford Internet, Policy, and Politics Conference*. Oxford, UK. [forthcoming]
2016. Matias, J. Nathan. Going Dark: Social Factors In Collective Action Against Online Platforms in the Reddit Blackout. *Proceedings of the Conference on Computer Human Interaction (CHI)*. ACM Press. *Best Paper Honorable Mention*
2016. Matias, J. Nathan, Sayamindu Dasgupta, and Benjamin Mako Hill. Skill Progression in Scratch Revisited. *Proceedings of the Conference on Computer Human Interaction (CHI)*. ACM Press.
2016. Spiro, E. S., Matias, J. N., & Monroy-Hernández, A. Networks of Gratitude: Structures of Thanks and User Expectations in Workplace Appreciation Systems. *Proceedings of the Tenth International AAAI Conference on Weblogs and Social Media (ICWSM)*.
2015. Matias, J. Nathan and Hannah Wallach. Working Paper: Modeling Gender Discrimination by Online News Audiences. *Computation + Journalism Symposium*, Columbia University.
2015. Matias, J. N Nathan, Amy Johnson, Whitney Erin Boesel, Brian Keegan, Jaclyn Freedman, and Charles DeTar. (2015). Reporting, reviewing, and responding to harassment on Twitter. Double-blind peer review committee chaired by Zeynep Tufekci. Available at SSRN 2602018.
2015. Matias, J. Nathan, Sophie Diehl, and Ethan Zuckerman. Passing On: Reader-Sourcing Gender Diversity in Wikipedia. *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems*. ACM press, 2015.
2015. Bavitz, Christopher, Chelsea Barabas, J. Nathan Matias, Cecillia Xie, Jack Xu. Legal and Ethical Issues In the Use of Telepresent Robots. *WeRobot 2015 Conference on Legal and Policy Issues Relating to Robotics*, Seattle WA.
2015. Graeff, Erhardt. J. Nathan Matias. Making Drones Civic: Values and Design Principles for Civic Technology. *International Studies Association 2015*.
2014. Matias, J. Nathan, and Andrés Monroy-Hernandez. NewsPad: designing for collaborative storytelling in neighborhoods. *CHI'14 Extended Abstracts on Human Factors in Computing Systems*. ACM press, 2014.
2014. Rzeszotarski, Jeffrey M., Emma Spiro, J. Nathan Matias, Andrés Monroy Hernández. Is anyone out there?: unpacking Q&A hashtags on twitter. *Proceedings of the 32nd annual ACM conference on Human factors in computing systems*. ACM press, 2014. [short paper]
2010. Matias, J. Nathan, and Frederick Cheung. Emberlight: share and publish spatial hypertext to the web. *Proceedings of the 21st ACM conference on Hypertext and hypermedia*. ACM press, 2010. [short paper]
2009. Matias, J. Nathan, and David P. Williams. Comparing spatial hypertext collections. *Proceedings of the 20th ACM conference on Hypertext and hypermedia*. ACM press, 2009.
2005. Matias, J. Nathan. Philadelphia fullerine: a case study in three-dimensional hypermedia. *Proceedings of the sixteenth ACM conference on Hypertext and hypermedia*. ACM press, 2005. [ACM Nelson Award] [best paper runner-up]

Refereed Workshop Papers

- 2017. Matias, J. Nathan. Authoritarian and Democratic Theories of Social Experimentation in 20th Century US Industry and Policymaking. *Society for Social Studies of Science* annual conference, Boston MA.
- 2017. Matias, J. Nathan. Citizen Experiments in Moderation. *CCCCCCR Workshop*, 20th ACM Conference on Computer Supported Cooperative Work & Social Computing
- 2016. Matias, J. Nathan. The Cost of Solidarity: The Effect of Strike Participation on Community Participation in the reddit Blackout. *The Conference on Digital Experimentation @ MIT*.
- 2016. Evidence-Based Policy in Large-Scale Online Communities. *What Works Global Summit*. Campbell Collaboration, London, UK.
- 2016. Matias, J. Nathan. Work In Progress: Mass Replication of Policy Evaluation Through Citizen-Led Randomized Trials (Poster). *Data for Policy Conference*, Cambridge, UK.
- 2016. Participatory Field Experiments and Causal Inference For Monitoring and Advancing Social Justice. *CHI 2016 Workshop: Exploring Design, Social Justice, & HCI*.
- 2016. Keegan, Brian and J. Nathan Matias. Actually, It's About Ethics in Computational Social Science: The Ethics of Causal Research Design in Community Governance. *AAAI Spring Symp. on Observational Studies in Social Media 2016*
- 2016. Keegan, Brian and J. Nathan Matias. Actually, It's About Ethics in Computational Social Science: The Ethics of Causal Research Design in Community Governance. *Workshop on Human Centered Data Science, at The 19th ACM conference on Computer-Supported Cooperative Work and Social Computing*.
- 2014. Matias, J. Nathan, Elena Agapie, Catherine D'Ignazio, and Erhardt Graeff. Challenges for Personal Behavior Change Research on Information Diversity. *Workshop on Personalized Behavior Change, at The 32nd ACM Conference on Human Factors in Computing Systems (CHI'14)*.
- 2014. Matias, J. Nathan and Stuart Geiger. Defining, Designing, and Evaluating Civic Activity in Collective Action Systems. *Citizen-X workshop at The Second AAAI Conference on Human Computation and Crowdsourcing*.

Other Publications

- 2015. Matias, J. Nathan, Susan Benesch, Patrick Earley, Tarleton Gillespie, Brian Keegan, Nathaniel Levy, Erin Maher. Online Harassment Resource Guide. Wikimedia Meta-Wiki: Research. Coordinated over 20 scholars to create an open access resource of online harassment research.

Selected Talks

Peer Reviewed Lectures and Panels

- 2015-09-23. Private Platforms Under Public Pressure. Roundtable at the 16th Annual Association of Internet Researchers Annual Conference, with Mike Ananny, Kate Crawford, and Christian Sandvig.
- 2014-04-25. Project Stories are Not Enough: Why Hackathons are More than Hacks. *Theorizing the Web*, April 2014
- 2012-06-28. Through the mirror: real-time network analysis for real-life impact. UK Social Network Association Conference. With Gaia Marcus.
- 2010-06-16 Past visions of hypertext and their influence on us today. Panel with Darren Lunn, Mark Bernstein, Cathy Marshall, James M. Nyce, and Frank Tompa,

to commemorate *As We May Think* by Vannevar Bush. ACM Hypertext Conference 2010

Invited Lectures and Panels

I routinely give talks about my research and the work of my research group, roughly 3 to 5 per month. This is a shorter selection of invited lectures and panels.

- 2017-08-10. Authoritarian and Democratic Data Science For Governing Human and Machine Behavior. **Keynote speaker**, Latin American Conference on Human-Computer Interaction Conference, Antigua, Guatemala.
- 2017-03-02. The Experimenting Society: Authoritarian and Democratic Directions for Data Science. UC Santa Cruz Tech 4 Good Lecture Series
- 2016-09-08. Supporting Research Innovation Through Student Legal Services. Boston University Law School.
- 2016-07-29. Citizen Randomized Trials in the Experimenting Society. Machine Eatable lecture series, DataKind NYC & Civic Hall.
- 2016-07-21. Forbidden Research: Why We Can't Do That. Moderating a panel with Alexandra Elbakyan, Christian Sandvig, Karrie Karahalios. MIT Forbidden Research Conference
- 2016-07-12. reddit's Army of Science: How A Thousand Academics Coordinate the World's Largest Discussion of Science Research Online.
- 2016-04-12. Creating Change with Media and Data. MIT Media Lab Member Meeting.
- 2016-03-25. Explaining the reddit Blackout, The Civic Labor of Moderators, and Citizen Experimentation on reddit. Talk at reddit, inc.
- 2016-03-16. Civic Labor Online: Volunteer Governance and Collective Bargaining by reddit Moderators. Oxford Internet Institute.
- 2016-03-09. Freedom to Innovate: Addressing Student Legal Risks at MIT and Queen Mary's Entrepreneurship and Cyberlaw Clinics. Babbage Seminar, University of Cambridge Computer Lab. With Patrick Cahill.
- 2016-02-23. Developing Effective Citizen Responses to Discrimination and Harassment Online. Berkman Center Lunch Series.
- 2016-01-29. Understanding and Responding to Gender Discrimination and Harassment Online. Sawyer Seminar, Rice University.
- 2015-10-18. Gratitude. Sunday Assembly Boston.
- 2015-10-14. Holding Networks Accountable for Misuse of Power. Platform Cooperativism Conference, at the New School, New York City.
- 2015-10-10. Advocating for the MIT/BU law Clinics for Entrepreneurship and Cyberlaw. With Kate Darling.
- 2015-08-21. Between Platforms and Community: Moderators on reddit. Microsoft Research New England.
- 2015-05-16. Holding Crowds Accountable To the Public. Berkman Center Lunch Series.
- 2015-04-24. The Challenge of Digital Cosmopolitanism. Q Talks Weekend Workshop.
- 2014-09-10. Technologies in a Changing Media Landscape. Summit on the Intersection of new Documentary Forms and Digital Journalism. Panel, with Larry Birnbaum, Matt Carroll, Jake Shapiro, and Angela Morgenstern.
- 2014-10-22. Quantitative Evaluation of Civic Technologies. mySociety annual retreat.
- 2014-07-16. Using Open Data and Stories to Broaden Crowd Content. Wikimedia Research Showcase.
- 2014-06-22. Curiosity. MIT-Knight Civic Media Conference.

- 2014-06-23. Crowdsourcing Real-Time News with NewsPad and Eventful. MIT-Knight Civic Media Conference.
- 2014-06-11. Large Scale Analysis of Acknowledgment and Hidden Labor. Harvard / MIT / Yale / Columbia Cyberscholars Working Group, Yale Law School.
- 2014-03-10. Filters, Bias, and Collaboration. South by Southwest. With Sarah Szalavitz.
- 2014-02-22. Gender Binaries and the Ideological Affordances of Data Activism. MIT Symposium on Gender and Technology.
- 2014-10-20. Using Data to Crowdsourcing Gender Diversity Online. Gender Data for Change Workshop, New York City.
- 2013-11-23. Can Gender Metrics Make the News More Diverse? O'Reilly NewsFoo.
- 2013-10-29. Monitoring and regulating media plurality at scale. The UK Office of Communications (OFCOM).
- 2013-09-18. Technologies to Measure and Change Cooperation Across Diversity. University of Washington DUB Seminar
- 2013-08-17. Technologies for Cooperation Across Diversity. Passion Talks, Stanford University.
- 2013-06-19. Designing Women's Representation in the News. MIT-Knight Civic Media Conference.
- 2012-10-25. Networked Tactics of Gender Representation in the Media. Tow Center for Journalism, Columbia Journalism School.
- 2012-10-12: Data Science for Gender Equality in the News. Harvard / MIT / Yale / Columbia Cyberscholars Working Group, Harvard.
- 2012-07-23. Large Scale Analysis of Women's Representation in the News. St. John's College Samuel Butler Room Society, University of Cambridge.
- 2012-07-03. Networks of Diversity in Arab Spring Citizen Media. Global Voices Summit, Nairobi.
- 2012-06-19. Quantifying Media Diets. MIT-Knight Civic Media Conference. With Matt Stempeck.
- 2012-04-05. Open Brands, Funding, and Code as Social Responsibility. Carper Lecture and Panel Discussion, Elizabethtown College.
- 2010-11-06. Moral Choice in Interactive Fiction. Web Art Science Camp, London.
- 2010-08-03. Performance Testing and Instrumenting an SMS Service for the Super Bowl. Cambridge (UK) Geek Night.
- 2010-12-11. E-Lit Camp. Digital Narrative and Participatory Documentary. Boston.
- 2009-04-27. The Electronic Nature of Future Literatures. Literary Studies Now Symposium, University College, Oxford.
- 2009-02-16. Operational Media. Anglia Ruskin University Cultures of Digital Economy

Convening & Organizing

Event Organizing
 Convening networks and events towards collective decision-making and goals are a basic part of my approach toward creating impact.

- 2016-08. *Workshop on High Impact Research in Online Harassment and Moderation*, MIT. Lead convener. Fundraised and organized a meeting of researchers, advocates, and large online platforms to identify and coordinate high-impact research on online harassment. Funded by Jigsaw.
- 2015-07. *Collaborative Online Harassment Resource Guide*, International Workshop on Misogyny and the Internet, Harvard Law School. Coordinated literature review by roughly 20 scholars from multiple disciplines and published a resource guide.

- 2015-07. International Workshop on Misogyny and the Internet, Harvard Law School. Advisory Committee.
- 2014-10. *Gender Data For Change*. Convened news organizations, advocacy groups, and researchers to prototype research to understand and move towards women's equality in society. Fundraised and convened. Hosted by Microsoft NYC, funded by the Knight Foundation, with facilitation support from Willow Brugh and DataKind.
- 2014-09. *Youth Civic Tech Summit*, London. Convened UK youth organizations with technology and data practitioners and charitable foundations to plan strategic directions for youth civic tech in the UK. Co-organized with Erhardt Graeff.
- 2014-09. *Community Building* track at the Mozilla Festival. Supported Beatrice Martini and Heather Leson across sessions in this track. Led a session on ways to celebrate and party remotely, which was mentioned in the New York Times.
- 2013-10. *Measuring the News: Tracking Content and Engagement Online*. Mozilla Festival, London. With Erhardt Graeff, facilitated a workshop on analyzing news content and traffic data.
- 2013-2014. *Boston Data Swap*. Convened graduate students from across Boston for a year-long competition to work with public interest data. On the leadership team with Adrienne Debigare, Dan O'Brien, David Lazer, and Brian Keegan.
- 2012-10. *Curating and Repackaging Citizen Video for the Web*. Mozilla Festival, London. Facilitated a working group to compile shared resources on working with citizen video and publish the results.
- 2012-2014. *Festival of Learning*. Annual two-day event convening MIT 150 students for peer learning and creative play. Creator, fundraiser, and organizer of festival.
- 2010-11. *Web Art Science Camp*, London. Unconference for artists and academics connected to research on hypertext and electronic literature. Lead Organizer. Raised several hundred pounds for ACM student travel grants.

Teaching Courses

- 2015, fall. Unpacking Impact (MAS S61). MIT Media Lab. Graduate course on politics and ethics of design and data science. Co-instructors: Ricarose Roque and Sayamindu Dasgupta.
- 2014, spring. Guest lecturer and class facilitator, CMS.400 Media Systems & Texts, led by Edward Schiappa and Christopher Peterson.
2008. Tragedy in Electronic Literature. English Tripos, University of Cambridge. Sponsored by Adrian Poole.

Directed Readings & Independent Studies

I have formally and informally supervised many undergraduate independent studies, with an emphasis on supporting them to complete published work while developing practical experience in the field of their choice.

- 2016, Summer. Supervised Independent Study/Research on the politics and ethics of data science. (MIT).
- 2014, Fall. Supervised undergraduate research on quantitative analysis of gender in online media. (MIT).
- 2014, Fall. Supervised undergraduate research on Twitter and data science. (MIT).
- 2013, Spring. Supervised undergraduate senior project on journalistic livestreaming and mobile video. (MIT).

2012, Summer. Supervised undergraduate research and art projects on gender diversity and Wikipedia participation. (MIT).

Workshops & Seminars

2013–present. Cooperation Group Seminar. Berkman Center for Internet and Society, Harvard University. Co-convenor with Brian Keegan.

2012–2013. Harvard / MIT / Yale / Columbia Cyberscholars Working Group. Co-convenor with Molly Sauter

2016-01-30. Introduction to Statistics for Humanities Students. Rice University School of Humanities Research Center.

Grants, Awards & Service

Awards

2014. MIT Horton Fellowship Award, for contributions to MIT graduate life.

2006-2008. Davies Jackson Scholarship. U.S. scholarship to study for a second B.A., at St. John's College, University of Cambridge

2006. Rhodes Scholarship Finalist

2005. ACM Nelson Award. Best newcomer paper award for *Philadelphia Fullerine*, [nominee for best paper, ACM Hypertext 2005.]

2006. Hugh Cannon Memorial Scholar, American Institute of Parliamentarians

2005. Louise Baugher Black Nonfiction Writing Award, Elizabethtown College

2005. Wenger Award for Distinguished English Department Senior, Elizabethtown College

2005. Best of Show, Student Art Show, Elizabethtown College

2005. Riddick Scholar, American Institute of Parliamentarians

2004-2005. College Scholar, Elizabethtown College.

2003. Riddick Scholar, American Institute of Parliamentarians

2002-2005. Presidential Scholar, Elizabethtown College

2002-2005. Elizabethtown College Honors Program

Grants

2017. Aspen Institute Communications and Society Guest Scholar Program Scholarship, Roundtable on Artificial Intelligence Policy

2016. Jigsaw, for the Workshop on High Impact Research in Online Harassment and Moderation.

2016. Harvey Fellowship. Mustard Seed Foundation, for students pursuing graduate studies at premier universities in fields considered to be underrepresented by Christians (Total: \$12,000 - \$24,000)

2014. Knight Foundation grant for Gender Data for Change workshop. (Total: \$10,000).

2012. Knight Foundation Prototype Fund Grant for "Open Gender Tracker." Recipient: Bocoup. I developed the prototype system that Bocoup went on to develop and release with Knight funding and my guidance (Total: \$30,000).

2012. Nominet Seed Grant for "Social Mirror." Recipient: Royal Society for the encouragement of Arts, Manufactures and Commerce. I developed the prototype system that the RSA went on to further develop and deploy with Nominet funding (Total: £70,000).

Service to Profession

2017. Reviewer, CHI: The 34th ACM Conference on Human Factors in Computing Systems.

2016. Reviewer, CSCW: the 20th annual ACM Conference on Computer-Supported Cooperative Work and Social Computing

- 2016. Advisor, Pew Research Center report: *Seven-in-Ten Reddit Users Get News on the Site* published February 25, 2016.
- 2016. Reviewer, CHI: The 33rd ACM Conference on Human Factors in Computing Systems.
- 2015. Reviewer, CHI: The 33rd ACM Conference on Human Factors in Computing Systems. Works in Progress and Extended Abstracts.
- 2015. Reviewer, CSCW: the 19th annual ACM Conference on Computer-Supported Cooperative
- 2014. Organizer of The People's Bot, which offered free telepresent scholarships to Theorizing the Web and CHI 2014. This work inspired other HCI conferences, including CHI and CSCW to offer robotic telepresence as a basic form of access.
- 2008. Reviewer, Hypertext: The 19th annual ACM Conference on Hypertext and Hypermedia.
- 2008. Reviewer, Hypertext: The 19th annual ACM Conference on Hypertext and Hypermedia.
- 2008. Program Committee, International Symposium on Wikis and Open Collaboration (Now OpenSym), Porto, Portugal. With Mark Bernstein and Ademar Aguiar.
- 2007. Reviewer, Hypertext: The 18th annual ACM Conference on Hypertext and Hypermedia.
- 2007. Panel Organizer for panel on digital narrative. Hypertext: The 18th annual ACM Conference on Hypertext and Hypermedia.

Liveblogging

Liveblogging is a key part of my work as an academic to amplify the work and ideas of others. When I attend or speak at a conference or panel, I typically publish one or more blog posts with summaries of the other talks. I also offer liveblogging as a service to research and practitioner communities. I advise media strategy, train liveblogging teams, and direct those teams to cover large events. Since 2011, I have published over 40 blog posts per year. I have also created software to support liveblogging and have published peer reviewed research on that work.

- 2011-present. MIT Center for Civic Media Blog. I routinely post on the research of others at this blog, framing it for public understanding. I also publish my own research updates here civic.mit.edu/blog/natematias
- 2015-present. Microsoft Social Media Collective Blog. socialmediacollective.org/author/natematias/
- 2015-11. Platform Cooperativism, New School, New York City.
- 2015-12. Urbana 2015, St Louis. Trained a team of 8 livebloggers to publish 16 articles from sessions across this 5-day, 16,000 person international symposium.
- 2011-2014. *Mozilla Festival* media team. Contributor to media strategy and production with the Mozilla Festival team each of these years, designing workflows and producing hundreds of media outputs to create inclusive community-oriented event media.
- 2012-12. Urbana 2012, St Louis. Liveblogged a 5-day, 16,000 person international symposium, publishing 8 articles.
- 2012-07. Global Voices Summit on Citizen Media, Nairobi. Liveblogged a two-day summit, publishing 5 articles with Matt Stempeck.
- 2012-05. ROFLCON, Cambridge MA. With Matt Stempeck and Stephen Suen, liveblogged 30 sessions in this two-day event. Wrote liveblogging index to coordinate and pre-organize the work high-tempo liveblogging teams.

2012-03. Truthiness in Digital Media, Cambridge MA.

University & Departmental Service

2013-2015. Advocacy, planning for BU-MIT Entrepreneurship & Cyberlaw Law Clinics.

2011-2014. MIT Media Lab Student Committee.

2007-2008. Elected Graduate Student Representative, Samuel Butler Room Society, St. John's College, University of Cambridge.

2007-2009. Appointed Returning Officer, Cambridge Union Society.

2003-2005. Academic Integrity Committee, Elizabethtown College.

2003-2005. Elizabethtown College Honors Council

Theses

2017. (anticipated). Evidence-Based Policy in Citizen Governance of Online Communities. PhD dissertation, Massachusetts Institute of Technology

2013. Networked Tactics for Gender Representation in the Media. M.S. dissertation, MIT Media Lab

2008. Moral Choice in Interactive Fiction. B.A. Cantab dissertation, University of Cambridge

2008. Breakthrough African Novelists: Plaatje & Achebe. B.A. Cantab dissertation, University of Cambridge

2005. Philadelphia Fullerine. B.A. senior dissertation and interactive media installation, Elizabethtown College Honors Program

Other Activities

Selected Employment Experience

2010-2011. *SwiftKey*, London, UK. Language Solutions Development. Extended predictive text coverage internationally, developing software and business processes from research systems. SwiftKey reached over a billion users before its acquisition by Microsoft in 2016.

2010-2012. *Emberlight*, Cambridge, UK. Cofounder. Emberlight was a creative platform for teams to collaborate and publish visual, linked information to the web. It was also the subject of a peer reviewed paper and demo.

2008-2010. *Texperts, Knowledge Generation Bureau*. Cambridge, UK. instrumentation, large-scale user modeling, and performance testing software for expansion into new markets and for our Super Bowl television ad in 2010. Designed systems to facilitate labor relations in microwork and human computation. Research liaison for partnerships with academic data scientists.

Non-Profit Activity

I routinely advise nonprofits, advocacy organizations, foundations, and governments from several countries on research and strategy relating to online organizing, fairness, speech rights, and impact evaluation.

2010-2011. *Ministry of Stories*. Chief Technical Advisor. Helped launch a creative writing center in East London for marginalized young people. The Ministry now convenes a network of centers it inspired across Europe.

2007-2010. *World University Project*. Cofounder, Executive Director. Started an international charity to connect and amplify voices of student video journalists.

Journalism

I regularly write long-form journalism on topics related to the internet and society, often explaining the human angle of research findings in the context of 19th and 20th century intellectual history. I also contribute data journalism to a variety of outlets.

- 2017-06-26. Matias, J. Nathan, Rickman, Aimee, Steiner, Megan. Who Gets to Use Facebook's Rainbow 'Pride' Reaction?. *TheAtlantic.com*. Crowd-sourced algorithmic audit conducted with Facebook users.
- 2017-01-03. Matias, J. Nathan The Real Name Fallacy. *The Coral Project, A project of Mozilla, the New York Times, and the Washington Post*
- 2016-04-18. Matias, J. Nathan A Toxic web: What the Victorians Can Teach Us About Online Abuse. *The Guardian*
- 2016-02-17. LaFrance, Adrienne. I Analyzed a Year of My Reporting for Gender Bias (Again). *The Atlantic*. Contributed original data analysis and interviewed for article on gender representation in the news.
- 2015-11-24. Matias, J. Nathan. Which Boston Neighborhoods Are Worst at Holiday Cooking? *Boston Magazine*. Geostatistical modeling of holiday fires.
- 2015-06-28. Matias, J. Nathan. Were All Those Rainbow Profile Photos Another Facebook Study? *The Atlantic*. Article on the history of research on social movement mobilization. It has been translated and republished hundreds of times.
- 2015-06-08. Matias, J. Nathan. The Tragedy of the Digital Commons: Advocates for fairer, safer online spaces are turning to the conservation movement for inspiration. *The Atlantic*.
- 2013-03-8. Matias, J. Nathan, Irene Ros, Adam Hyland. Data on gender that will make you smile, not groan. *The Guardian Datablog*. Original analysis of women's representation in Global Voices.
- 2012-10-23. Matias, J. Nathan and Lisa Evans. Women's Representation in the Media: Readers Preferences for Online News Revealed. *The Guardian Datablog*. Original analysis of social media attention toward articles by women in UK news.
- 2012-09-7. Evans, Lisa., J. Nathan Matias, and Lynn Cherny. Womens Representation in the Media: The Best Data on the Subject To Date. *The Guardian Datablog*. Original data analysis of content in a year of 3 UK newspapers.
- 10-24-2016. Matias, J. Nathan. How to Ethically and Responsibly Identify Gender in Large Datasets. *PBS IdeaLab* (now MediaShift).

Participatory Journalism

Much of my journalistic writing engages directly with audiences to create ongoing conversations through articles and social media engagement.

- 2012-2014. For two years, I managed @1book140, a large-scale Twitter book club at *The Atlantic*, where I facilitated an ongoing conversation with over 100,000 book readers, conducted live online interviews with notable authors, and published the conversation regularly. The full archive of my writing with @1book140 is at theatlantic.com/author/j-nathan-matias/.
- 2013-11. Managed the social media launch for *Out of Eden Walk*, a 7 year expedition by Paul Salopek to walk the story of human migration. Our social media campaign coordinated with Salopek's National Geographic cover story announcing the expedition. With Ethan Zuckerman.

Selected Artistic Works

- 2014-04-26. The People's Bot. Art installation at *Theorizing the Web*, New York City.
2006. Read for the sky. With Susan Davitti Darling. Winner of sculpture competition, placed on the Pennsylvania State Capitol steps.
2005. Philadelphia Fullerine. Geodesic interactive documentary sphere. Winner of multiple awards. In the permanent collections of the Elizabethtown College Library.

Press Selected Coverage

My research is frequently covered in the media and I am often quoted as expert in international press. Some notable examples of press describing my research include:

- 2017-01-22. Young, Nora. Anonymity Isn't the Cause of Online Harassment. *Spark* on CBC Radio. Radio interview on my research.
- 2016-04-18. LaFrance, Adrienne. Should We Feed the Trolls? *The Atlantic*. Interviewed about online harassment research.
- 2016-02-22. Dingman, Shane. BuzzFeed writer's harassment just the latest example of why Twitter is broken for women. *The Globe and Mail*. Cited research I led on Twitter harassment.
- 2016-02-09. Zarya, Valentina. Twitter Is Bringing In Reinforcements to Help Fix its Harassment Problem. *Fortune* Cited research I led on Twitter's harassment reporting process.
- 2015-10-08. McMurtrie, Beth. Universities Set Up Legal Clinics to Help Student Innovators. *Chronicle of Higher Education*. Interviewed about my work advocating for legal support for student innovation and research.
- 2015-07-15. Alba, Davey. Reddit's Future is the Future of the Internet. *WIRED Magazine*. Quoted my research about collective organizing by online moderators.
- 2015-05-14. Dewey, Kaitlin. The conclusive, expert guide to saving Twitter from its trolls. *The Washington Post*. Cited research I led on Twitter harassment.
- 2015-05-13. Kessler, Sarah. A Snapshot Of How Twitter Deals With Online Harassment. *FastCompany*. Cited research I led on Twitter harassment.
- 2014-10-24. Shannon, Victoria. Your Friday Briefing. *The New York Times*. Describes my work on developing group celebration online.
- 2014-05-11. Neyfakh, Leon. My Day as a Robot. *The Boston Globe*. Long-form feature article about my work on The People's Bot.
- 2014-02-15. Siegel, Robert. Wherefore Art Thou Robo-Shakespeare? Or Better Yet, How? *NPR All Things Considered*. Interviewed about my machine-learning poetry and poetry writing interface.
- 2014-01-26. Lomas, Natasha. Read the Sonnet Co-Authored By Shakespeare, an MIT PhD Student, and a Machine-Learning Algorithm. *TechCrunch*.
- 2013-07-24. Darville, Sarah. 5 things you might like about NewsPad. *Nieman Lab*. About NewsPad research at Microsoft Research
- 2012-10-24. Codrea-Rado, Anna. A Data Dream Team: One example of how academic researchers and journalists can work together on data projects. *Columbia Journalism Review*. Profile and overview of my work with the Guardian Datablog.