



Northeastern University
NULab for Texts, Maps, and Networks

NULab Annual Report

1. Executive Summary

Greetings from the NULab for Texts, Maps, and Networks at Northeastern University! As we look forward to our eighth year, we want to share some highlights from our community in 2020. In 2020, we have responded to the COVID-19 pandemic by supporting timely, innovative research projects and building community in a challenging time. Our focus on innovative work that addresses the most pressing social issues that we face today—ranging from racial inequality to misinformation to the quality of our democracy—will be at the forefront of our work in the coming year; this mission will be all the more relevant in the post-COVID world.

The **NULab's strategic goals** are to support interdisciplinary faculty research and teaching in digital humanities and computational social science, and to encourage cross-pollination among the range of disciplines represented by the NULab faculty. To this end, we seek to provide opportunities—through seedling grants, regular events, and internal meetings—for conversation and collaborative exploration that can spur potential funding initiatives and shared research projects. We also support the development of multigenerational research teams involving faculty, graduate, and undergraduate researchers.

In 2020, the **NULab's significant accomplishments** include:

- Over 20 events, including a robust calendar of remote events. We were able to virtually welcome speakers from a wide range of departments at Northeastern, other Boston-area universities, and internationally. We also co-sponsored five events on the theme of misinformation in partnership with the Shorenstein Center on Media, Politics and Public Policy at Harvard University. A full listing of events is included in the appendix to this report.
- We awarded 9 NULab seedling grants, totalling \$23,000 in funding. A full listing of grants is included in the appendix to this report.
- NULab faculty published over 75 works, including four books and six publications that study the ongoing COVID-19 pandemic. Notably, significant portions of this research were collaborative and cross disciplinary: many of these works are co-authored, including across disciplinary boundaries. A full listing of publications is included in the appendix to this report.
- Our faculty produced 52 external grant proposals in 2020. This year, faculty have held 20 grants and 30 are still pending.
- We expanded the Digital Integration Teaching Initiative (launched in 2018) to cover 59 courses taught by 44 faculty members, working with more than 1,350 students in 93 class visits. We also developed asynchronous modules and strengthened our partnerships with the University Library and the Boston Area Research Initiative (BARI).

Our focus on innovative work that addresses the most pressing social issues that we face today—ranging from racial inequality to misinformation to the quality of our democracy—will be at the forefront of our work in the coming year; this mission will be all the more relevant in the post-COVID world.

In the report that follows, we provide a fuller picture of the NULab’s activities for the year, including details of seedling and travel grants awarded, current collaborative research projects, information about the Digital Integration Teaching Initiative, and NULab events in 2020.

2. Seedling and Travel Grants

The NULab supported nine research projects with [NULab Seedling Grants](#). Due to the COVID-19 pandemic, no travel grants were awarded in 2020.

The NULab awarded four Seedling Grants in Spring 2020 and five in Fall 2020. Projects supported by NULab Seedling Grants include new research initiatives from faculty and graduate students in Africana Studies, English, History, Journalism, the Network Science Institute, and Public Policy and Urban Affairs.

Many of the projects supported by the NULab in 2020 focus on racial justice. For example, Moya Bailey is building a website for her new book, *Misogynoir Transformed*, which examines how Black women have used social media to confront the negative impact of stereotypes in their lives. Bailey’s website will serve as a hub for the book and an associated podcast. Ronald Robertson’s project, “The Impact of Race and Gender in Online Dating,” involves a series of experiments that examine how users’ racial biases interact with the algorithms that govern online dating platforms.

Two other projects, both supported by Fall 2020 grants, study the history of Black communities in Boston. Nicole Aljoe is curating material about the Black communities of Boston during the eighteenth and nineteenth centuries for the Early Black Boston Digital Almanac. The Almanac’s digital exhibits are created by scholars, students, and interested members of the public, and Seedling funds will support the public launch of the EBBDA site. Jessica Linker and Angel Nieves are creating immersive virtual reality museum spaces documenting the African American communities of Beacon Hill and the West End in nineteenth-century Boston. This project will also have the important effect of seeding interest in the forthcoming 3D/VR Lab and Social Justice Studio in the Library. The [Early Caribbean Digital Archive](#), an open access collection of pre-twentieth-century Caribbean texts, maps, and images, received funding to support the addition of new texts to the collection and mentoring for undergraduate students as a part of a CSSH Multi-generational Research Teams grant.

Other projects supported by the NULab respond to different pressing contemporary issues. For her project, *When I Learn the News is False*, Myojung Chung is investigating the effect that fact-checking information has on the proliferation of fake news in social media. Dietmar Offenhuber and Sara Wylie received funding for [Environmental Enforcement Watch](#), which makes data from the Environmental Protection Agency’s Enforcement and Compliance History Online (ECHO) database data more readily accessible. With the help of NULab funding from Fall 2020, Jacob Murel is analyzing datasets from sixteenth- and seventeenth-century

English drama and printed medical records to support his dissertation research about the human body in early modern London.

We are excited to add these seedlings to the growing set of [NULab projects](#) and we look forward to sharing the outcomes of these promising new initiatives in the year to come.

3. Collaborative Research

Innovative scholarship from the NULab community this year includes more than 30 faculty grants and 75 publications. NULab faculty were awarded grants from over 20 funding sources, including the National Science Foundation and the National Endowment for the Humanities. Of these, five grants and six publications involved study of the COVID-19 pandemic.

Several recently funded projects include:

- **Alicia Sasser Modestino (PI), National Science Foundation:** *RAPID: Accelerating the Future of Work? Understanding Future Shifts in Technology Adoption in the Seafood Industry in Response to the COVID19 Pandemic [COVID-19]*. Modestino and co-PIs are investigating the accelerated adoption of new technologies in the seafood industry in response to both worker and food safety concerns arising from the COVID-19 pandemic. Modestino's portion of the grant is \$66,563.
- **Brooke Foucault Welles (PI), University of Rochester:** "Identification of Human Mobility Modes using Socio-Spatio-Temporal Predictive Models." This project, awarded \$72,561, uses predictive algorithms to increase understanding of human mobility dynamics.
- **Dan O'Brien (PI), National Science Foundation:** *RAPID: Coronavirus and Urban Neighborhoods: Infection Transmission in an Inequitable, Networked Social Context [COVID-19]*. O'Brien's team uses data from Boston to examine the interplay between neighborhood contexts, the ability and tendency to practice social distancing, and the consequences for rates of infection, revealing how the COVID-19 pandemic has resulted in differential impacts across neighborhoods. O'Brien's portion of the grant totals \$133,811.

A number of new projects involve internally funded initiatives that bring together multiple faculty members from across colleges at Northeastern. NULab faculty contributed to interdisciplinary research through several internal grants, including:

- **Julia Flanders (co-PI), and Nicole Aljoe (co-PI), TIER 1:** *Representing Racial Identity in Early Women's Writing*. This initiative of the Women Writers Project is developing new text encoding protocols and prototype data visualizations anchored in critical race theory for the Women Writers Online collection of early women's texts.
- **Myojung Chung (PI), Mike Peacey (co-PI), John Wihbey (co-PI), and Sara Colombo (co-PI), TIER 1:** *Information Filtering in Social Media and Formation of Misbeliefs*. This project uses mathematical modeling, surveys, and experiments to investigate how information filtering systems in social media operate, and how they affect the formation of misbeliefs or misperception.

- **Olly Ayers (PI), Dan O'Brien (co-PI), and Patrick Yott (co-PI), TIER 1: *Digital Cities Research Network*.** The DCRN is a transdisciplinary collaboration that uses digital tools to understand key historic and contemporary global challenges facing urban spaces, especially in the areas of racial inequality and economic growth and decline. It is a collaboration between Northeastern colleagues at the Boston campus and Oliver Ayers, Senior Lecturer in History at the New College of the Humanities in London.

NULab faculty members also have several new book publications, including:

- **Ryan Cordell (primary author), David A. Smith (co-author), Abby Mullen (co-author), and Jonathan D. Fitzgerald (co-author), *Going the Rounds: Virality in Nineteenth-Century Newspapers*** (University of Minnesota Press), a literary, historical, and computational analysis of information exchange in nineteenth-century U.S. periodicals.
- **Brooke Foucault Welles (co-editor) and Sandra González-Bailón (co-editor), *The Oxford Handbook of Networked Communication*** (Oxford University Press), an edited volume featuring multidisciplinary analyses of social interaction through digital communication networks.
- **Meg Heckman (author), *Political Godmother: Nackey Scripps Loeb and the Newspaper that Shook the Republican Party*** (Rowman & Littlefield), a narrative of conservative newspaper publisher Nackey Scripps Loeb's influence on the Republican Party.
- **Sarah J. Jackson (co-author), Moya Bailey (co-author), and Brooke Foucault Welles (co-author), *#Hashtag Activism: Networks of Race and Gender Justice*,** (MIT Press), an analysis of how historically disenfranchised groups use Twitter as a tool for advocacy.

4. Digital Integration Teaching Initiative

This fall marked the third year of the [Digital Integration Teaching Initiative](#) (DITI), a collaboration with faculty across CSSH to introduce students to digital methods and skills. Rather than adding additional skills or assignments to courses, we work with faculty to integrate digital skills that enhance existing course learning goals.

In 2020, the DITI team completed 44 faculty partnerships in a total of 59 courses. In 93 class visits, we reached approximately 1,350 students. We partnered with faculty in 15 different departments and programs: Co-op education, Criminology and Criminal Justice, Economics, English, German, Italian, History, Africana Studies, Political Science, Academic Advising, Public Policy and Urban Affairs, Human Services, Philosophy and Religion, Sociology, and the Writing Program. The team has taught a broad range of topics; the most commonly taught modules are digital ethics, big data, and algorithmic bias; Knight Lab's StoryMap; Excel; WordPress; and text analysis tools. We have also developed several new modules covering important digital tools and methods: Knight Lab's Timeline, Knight Lab's StoryMap for images (Gigapixel), Google My Maps, and an introduction to CSV data development and analysis.

DITI class partnerships are focused on helping students to actively integrate the skills they are learning with course topics and discussions. For example:

- In Spring and Fall 2020, we worked with Professor Erika Boeckeler to develop an assignment and WordPress website for the *Cacodemon Shakespeare Project*, a student-edited digital edition of Shakespeare's plays, for her *Introduction to Shakespeare* course. Students edited side-by-side digital editions with facsimile reproductions of early quartos. They worked in groups to choose an editorial stance and edit pages from Shakespeare's plays accordingly, making decisions about annotation, contextualization, display, regularization, and so on.
- In Fall 2020, we worked with two classes as part of the N.U. in program, helping to support high-quality learning experiences for this cohort of students. We partnered with Professor Simon Rabinovitch to teach a module on Knight Lab's StoryMap in his *History of Boston* class. Students produced two maps as part of this project: introductory ones showcasing their own neighborhoods and more extensive maps from Boston history that students created in groups over the course of the semester for publication on a [class website](#). Additionally, we partnered with Professor Gordana Rabrenovic for her *Current Issues in Cities and Suburbs* class. In that class, students were divided into teams that covered various issues in selected Boston neighborhoods. During the partnership, the students learned the basics of data visualization in Tableau, as well as how to engage with digital storytelling using Knight Lab's StoryMap. They used these skills to create maps, charts and supplemental materials for their written and oral presentations.
- We completed two full-semester partnerships that involved collaboration with research groups in the library. Students in Professor Simon Rabinovitch's *Digital Histories of Ethnic Boston* course used skills in CSV data, Knight Lab's StoryMap, and Tableau (the latter taught by library staff), to produce content for a new website, [Digital History of the Jews of Boston](#). Students in Professor Nicole Aljoe's *Early African-American Literature* course learned digital editions (taught by library staff), website building in WordPress, and mapping in Google My Maps, to build exhibits for the Early Black Boston Digital Almanac.
- In Fall 2020, we partnered with Professor Linda Blum for her *Sociology of the Family* class. We taught a new module on Knight Lab's TimelineJS over multiple class visits. DITI members also adapted our data ethics module for use in Professor Blum's class; this module continues to be popular.
- In response to the COVID-19 pandemic, we have now created several template Canvas modules on topics that include: introduction to computational text analysis, data ethics, introduction to Knight Lab's StoryMap, and introductions to Wix and WordPress. These are published on Canvas Commons for reuse and adaptation.

5. Events

In 2020, the NULab hosted more than twenty events, including panels, workshops, conferences, and lectures that reached over 500 people.

In the spring, we held an exciting series of events with a strong focus on social justice. In January—partnering with the National Parks of Boston, the DH Hub, and the Digital Scholarship Group—we hosted the “Suffrage Papers Transcribe-a-thon” to commemorate the centennial of the ratification of the 19th Amendment. In March, the NULab, in partnership with the DSG, was proud to welcome visiting speaker Catherine D'Ignazio (MIT) to speak on her book *Data Feminism*, co-authored with Lauren Klein (Emory University).

In the summer, the NULab successfully pivoted to hosting online events. We partnered with the CSSH Dean's Office to host two well-attended remote events: a launch event for the [Mapping Black London in World War II](#) project featuring NCH Professor Olly Ayers, and a showcase of student work from the DITI.

In the fall term, we hosted three major remote panels, in addition to a robust series of workshops. The first panel, "Social Dimensions of the Pandemic," took place in October and featured speakers David Lazer (Northeastern University), Andrea Parker (Georgia Institute of Technology), Jacqueline Wernimont (Dartmouth College), and Alessandro Vespignani (Northeastern University) who shared their multidisciplinary research on COVID-19 and its impacts.

In November, the NULab hosted a second virtual panel: "Data, Activism, and Intersectionality." The three panelists, J. Khadijah Abdurahman (*We Be Imagining* public technology project), Faithe Day (Purdue University), and Sureshi Jayawardene (San Diego State University), engaged questions of process, power and representation within the field of digital humanities. Northeastern Professor Angel David Nieves moderated the panel.

Finally in December, the NULab hosted a virtual panel, "What do the data tell us about election 2020?" This panel consisted of four speakers with expertise in political advertising and communication, online disinformation, and election history. The speakers were Erika Franklin Fowler (Wesleyan University), Solomon Messing, (ACRONYM and Georgetown University), Kate Starbird (University of Washington), and Jill Lepore (Harvard University).

Looking forward to 2021, we are excited to continue with our interdisciplinary research, teaching, and community-building! We hope that you will engage with the NULab, through both our online upcoming events as well as with our online resources and projects. Our warmest wishes for a healthy and safe year!

Appendix

NULab Faculty Publications in 2020

Ahmed, Alex A., and Michelle A. Borkin. "[Data Visualization for Transgender Voice Training](#)." In *IEEE VIS 2020*, 2020.

Alkhairy, Maha, Afshan Jafri, and David A. Smith. "[Finite State Machine Pattern-Root Arabic Morphological Generator, Analyzer and Diacritizer](#)." In *Proceedings of the Language Resources and Evaluation Conference (LREC)*, 3834–3841, 2020.

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Aqeel, Waqar, Zachary Hanif, James Larisch, Olamide Omolola, Taejoong Chung, Dave Levin, Bruce Maggs, Alan Mislove, Bryan Parno, and Christo Wilson. "[Assertion-Carrying Certificates](#)." In *Proceedings of the Workshop on Foundations of Computer Security*, 2020.

Bailey, Moya. "[A Radical Reckoning: A Black woman's racial revenge in 'Black Mirror's' 'Black Museum'](#)." In *Feminist Media Studies*, 2020.

Balietti, Stefano, Brennan Klein, and Christoph Riedl. "[Optimal Design of Experiments to Identify Latent Behavioral Types](#)." In *Experimental Economics*, 2020.

Chung, Myojung, and Nuri Kim. "[When I Learn the News is False: How Fact-checking Information Stems Spread of Fake News via Third-person Perception](#)." In *Human Communication Research*, 2020.

Chung, Myojung, and Young-Shin Lim. "[When Health Organization Answers the Question: Differential Effects of Dialogic Messages in Website and Twitter through Social Presence and Psychological Distance](#)." In *Health Communication*, 1–11, 2020.

Cordell, Ryan. "[Machine Learning + Libraries: A Report on the State of the Field](#)." For Library of Congress LC Labs, 2020.

Cordell, Ryan. "[Speculative Bibliography](#)." In *Anglia*, Volume 138, 2020.

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Di Bartolomeo, Sara, Yixuan Zhang, Fangfang Sheng, and Cody Dunne. "[Sequence Braiding: Visual Overviews of Temporal Event Sequences and Attributes](#)." In *IEEE Transactions on Visualization and Computer Graphics*, 2020.

Eliassi-Rad, Tina, Henry Farrell, David Garcia, Stephan Lewandowsky, Patricia Palacios, Don Ross, Didier Sornette, Karim Thébault, and Karoline Wiesner. "[What Science Can Do for Democracy: A Complexity Science Approach](#)." In *Humanities & Social Sciences Communications*, Volume 7, 2020.

Foucault Welles, Brooke. "[On Writing, Surviving, and Thriving in Communication and Media Studies](#)." In *International Journal of Communication*, Volume 14, 430–431, 2020.

Foucault Welles, Brooke, and Sandra González-Bailón, eds. *The Oxford Handbook of Networked Communication*. Oxford University Press, 2020.

Fulker, Zachary, Patrick Forber, Rory Smead, and Christoph Ried. "Spite is Contagious in Dynamic Networks." In *Nature Communications*, 2020.

Gauthereau, Lorena, Jessica Linker, Emma Slayton, and Alex Wermer-Colan. "[Immersive Pedagogy: Developing a Decolonial and Collaborative Framework for Teaching and Learning in 3D/VR/AR.](#)" In *The Journal of Interactive Technology and Pedagogy*, Volume 17, 2020.

Haenschen, Katherine, and Jay Jennings. "Digital Contagion: Measuring Spillover in an Internet Mobilization Campaign." In *Journal of Information Technology & Politics*, 1–16, 2020.

Haenschen, Katherine, and John C. Tedesco. "Framing the Youth-Led Movement for Gun Violence Prevention: How News Coverage Impacts Efficacy in Generation Z, Millennials, and Gen X." In *The International Journal of Press/Politics*, Volume 25, 653–675, 2020.

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Heckman, Meg. "Conflicted: Student Media Advisors, Sexual Assault Coverage, and Mandatory Reporting Under Title IX." In [Testing Tolerance: Addressing Controversy in the Journalism and Mass Communication Classroom.](#) Rowman & Littlefield, 2020.

Heckman, Meg. [Political Godmother: Nackey Scripps Loeb and the Newspaper that Shook the Republican Party.](#) Rowman & Littlefield, 2020.

Jackson, Sarah J., Moya Bailey, and Brooke Foucault Welles. *#HashtagActivism: Networks of Race and Gender Justice.* MIT Press, 2020.

Jiang, Shan, Miriam Metzger, Andrew Flanagin, and Christo Wilson. "[Modeling and Measuring Expressed \(Dis\)belief in \(Mis\)information.](#)" In *Proceedings of the International AAAI Conference on Weblogs and Social Media*, 2020.

Jiang, Shan, Ronald E. Robertson, and Christo Wilson. "[Reasoning about Political Bias in Content Moderation.](#)" In *Proceedings of the 34th AAAI Conference on Artificial Intelligence*, 2020.

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McMillan, Cassie, and Diane Felmler. "Beyond Dyads and Triads: A Comparison of Tetrads in Twenty Social Networks." In *Social Psychology Quarterly*, Volume 83, 383–404, 2020.

McMillan, Cassie, Diane Felmler, and Dave Braines. "Dynamic Patterns of Terrorist Networks: Efficiency and Security in the Evolution of Eleven Islamic Extremist Attack Networks." In *Journal of Quantitative Criminology*, Volume 36, 559–581, 2020.

Modestino, Alicia Sasser, Jamie J. Ladge, Alisa Lincoln, and Julia Vasta. "COVID-19: Effects on Families – Making Families More Resilient: The Role of Employer Practices and Public Policy on Household Well-Being during the COVID19 Pandemic." In *Association for Public Policy Analysis and Management 42nd Annual Fall Research Conference*, 2020.

Modestino, Alicia Sasser, Daniel Shoag, and Joshua Ballance. "Upskilling: Do Employers Demand Greater Skill When Workers Are Plentiful?" In *The Review of Economics and Statistics*, Volume 104, 793–805, 2020.

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Venkatadri, Giridhari, and Alan Mislove. "[On the Potential for Discrimination via Composition.](#)" In *Proceedings of the ACM Internet Measurement Conference*, 2020.

Wihbey, John P., Pedro M. Cruz, Sarah J. Jackson, and Brooke Foucault Welles. "[Visualizing Diversity: Data Deficiencies and Semiotic Strategies.](#)" In *Data Visualization in Society*. Amsterdam University Press, 2020.

Young Landis, Ben, Aleszu Bajak, Jenny F. de la Hoz, José G. González, Robin Gose, Claudia Pineda Tibbs, and Becky Oskin. "[CómoSciWri: Resources to Help Science Writers Engage Bicultural and Bilingual Audiences in the United States. Frontiers in Communication.](#)" In *Frontiers in Communication*, 2020.

Zhang, Lingyu, Indrani Bhattacharya, Mallory Morgan, Michael Foley, Christoph Riedl, Brooke Welles, and Richard Radke. "[Multiparty Visual Co-Occurrences for Estimating Personality Traits in Group Meetings.](#)" In *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision*, 2085–209, 2020.

Zhang, Yixuan, Andrea Grimes Parker, and Cody Dunne. "[Information Visualization for Diabetes Management: A Literature Review.](#)" In *OSF Preprints*, 2020.

NULab Faculty Grants in 2020

External

Alicia Sasser Modestino. "2020 Greater Boston Housing Report Card." The Boston Foundation, \$75,543, 2020.

Alicia Sasser Modestino. "R3: Preserving Summer Employment Opportunities for Inner-City Youth during the COVID19 Pandemic [COVID-19]." Spencer Foundation, \$6,657.33 (PI share), 2020.

Alicia Sasser Modestino. "R3: Preserving Summer Employment Opportunities for Inner-City Youth during the COVID19 Pandemic [COVID-19]." William T. Grant Foundation, \$19,969, 2020.

Alicia Sasser Modestino. "R3: Preserving Summer Employment Opportunities for Inner-City Youth during the COVID19 Pandemic – Phase 2 [COVID-19]." William T. Grant Foundation, \$48,393, 2020-2021.

Alicia Sasser Modestino. "RAPID: Accelerating the Future of Work? Understanding Future Shifts in Technology Adoption in the Seafood Industry in Response to the COVID19 Pandemic [COVID-19]." National Science Foundation, \$66,563.64 (PI share), 2020-2021.

Brooke Foucault Welles. "Identification of Human Mobility Modes using Socio-Spatio-Temporal Predictive Models." University of Rochester, \$72,561, 2020.

Brooke Foucault Welles (co-PI). "Strengthening Teamwork for Robust Operations in Novel Groups (STRONG)." Army Research Laboratory, \$332,925.50 (PI share), 2020-2021.

Cameron Blevins, Serena Parekh, and Liza Weinstein. "Engaging Geography in the Humanities." National Endowment for the Humanities Summer Institute, 2020.

Chris Parsons (multi-PIs). "Towards a Digital Health Humanities Curriculum: Tools and Strategies." National Endowment For The Humanities, \$7,023 (PI share), 2020-2021.

Christo Wilson and Alan Mislove. "Auditing Pymetrics Models for Gender and Racial Bias." Pymetrics, \$104,465, 2020.

Dan O'Brien. "Continuing to Bridge Digital Divides in Urban Informatics: Working with Public Schools and across Municipalities." Herman and Frieda L. Miller Foundation, \$55,097, 2020-2021.

Dan O'Brien. "RAPID: Coronavirus and Urban Neighborhoods: Infection Transmission in an Inequitable, Networked Social Context [COVID-19]." National Science Foundation, \$133,811.07 (PI share), 2020-2021.

David Smith. "Automatic Collation for Diversifying Corpora (ACDC): Aligning the Way to Improved Handwritten Text Recognition (HTR) for the Persian and Arabic Manuscript." University of Maryland (direct funding source), National Endowment for the Humanities (subprime funding source), \$220,822, 2020-2022.

David Smith and Amiji Passas. "Collaborative Research: D-ISN: TRACK 2: Financial Network Disruptions (FND) in Illicit and Counterfeit Medicines Trade." National Science Foundation, \$169,999, 2020-2022.

John P. Wihbey (multi-PI). "The Future of Local TV News: Applying Experimental Video Storytelling Research inside a Local Television Newsroom." Stanton Foundation, \$42,600 (PI share), 2020-2021.

Laura K. Nelson, Kathrin Zippel, and Alexander Gates. "Innovation Networks: The Creation and Diffusion of Gender Equity Ideas in Universities." National Science Foundation, \$990,931, 2020-2023.

Pedro Cruz and John Wihbey. "Visualizing the Evolution of Household Diversity in America." National Geographic Headquarters, \$31820.58, 2020.

Tina Eliassi-Rad. "Courses of Action Over Incomplete Networks (COANET)." US Air Force / MIT Lincoln Laboratories, \$75,000, 2020-2021.

Tina Eliassi-Rad (co-PI). "Reclaiming Individual Autonomy and Democratic Discourse Online: How to Rebalance Human and Algorithmic Decision Making." Volkswagen Foundation, €1,440,300 (Northeastern portion is €369,800), 2020-2024.

Tina Eliassi-Rad (co-PI). "Scoping Out the Periodic Table of Food." Rockefeller Foundation, \$2,250,000, 2020-2022.

Tina Eliassi-Rad (co-PI). "Security Analytics, Internet of Things (IoT), and Data Discovery and Inventory Research." PriceWater House, \$100,000, 2020.

Tina Eliassi-Rad. "Courses of Action Over Incomplete Networks (COANET)." US Air Force / MIT Lincoln Laboratories, \$75,000, 2020-2021.

Internal

Daniel O'Brien, Oliver Ayers, and Patrick Yott. "Digital Cities Research Network." NEU Tier 1 Grant, 2020.

Julia Flanders and Nicole Aljoe. "Representing Racial Identity in Early Women's Writing." NEU Tier 1 Grant, 2020.

Myojung Chung, Mike Peacey, John Wihbey, and Sara Colombo. "Information Filtering in Social Media and Formation of Misbeliefs." NEU Tier 1 Grant, 2020.

Rebekah Moore, Laura Senier, Jessica Silbey, Shan Mohammed, Alisa Lincoln, Antonio Ocampo-Guzman, and Amanda Reeser Lawrence. "Advancing Racial and Health Equity through the Arts: A Community-engaged Research Study in the City of Boston." NEU Tier 1 Grant, 2020.

NULab Seedling Grants in 2020

Nicole Aljoe, Faculty, English—Early Black Boston Digital Almanac.

Nicole Aljoe, Faculty, English; Elizabeth Dillon, Faculty, English—Early Caribbean Digital Archive.

Moya Bailey, Faculty, Africana Studies and Women's, Gender, and Sexuality Studies—Misogynoir Transformed: Black Women's Digital Resistance.

Myojung Chung, Faculty, Journalism—When I Learn the News is False: Fact-checking Information as a Tool to Combat Spread of Fake News.

Jessica Linker, Faculty, History—Pilot 3D/VR Historical Reconstruction of Black Boston Heritage Sites.

Jim McGrath, Faculty, History—Photogrammetry and Public History: The View From Lower Allston.

Jacob Murel, Graduate Student, English—Word-Embedding Models and the Digital Dissection of Early Modern Anatomy.

Dietmar Offenhuber, Faculty, Art + Design and Public Policy and Urban Affairs; Sara Wylie, Faculty, Sociology/Anthropology and Health Sciences; Lourdes Vera, Graduate Student, Sociology—Environmental Enforcement Watch: Designing and Studying Networked Public Interest Research Events on Enforcement of US Environmental Regulations.

Ronald Robertson, Graduate Student, the Network Science Institute; Hanyu Chwe, Graduate Student, the Network Science Institute; Apryl A. Williams, Assistant Professor of Communication & Media, Harvard University—The Impact of Race and Gender in Online Dating.

NULab Spring 2020 Events

January 22, 12–1:00 pm, 215 Snell Library

NULab Grant Recipients Lightning Talks

Featuring: Abbie Levesque, Avery Blankenship, Molly Nebiolo, and Laura Johnson

Co-sponsored with the DSG

January 28, 12–2 pm, 422 Snell Library

Suffrage Papers Transcribe-a-thon

Co-sponsored with the National Parks of Boston, the DH Hub, and the DSG

February 5, 12–1 pm, 215 Snell Library

NULab Grant Recipients Lightning Talks

Featuring: Cara Marta Messina, Ryan Gallagher, and Sarah Shugars

Co-sponsored with the DSG

February 12, 12–1:30 pm, 215 Snell Library

Douglass Day 2020

Co-sponsored with the DSG and the Women Writers Project

February 19, 1–2:30 pm, 440 Curry Student Center

Visiting Speaker: Dariusz Jemielniak, Kozminski University

“Collaborative Society: How Technology Amplifies on Natural Cooperative Tendencies”

February 24, 12–2 pm, Renaissance Park, Room RP909

Dr. Gesche Joost, “The Impact of AI and Digitalization on Social Cohesion”

Co-sponsored with the Boston Eric M. Warburg Chapter of the American Council on Germany, the Center for Design, the College of Social Sciences and Humanities at Northeastern University, and the ZEIT-Stiftung Ebelin und Gerd Bucerius

February 24, 1:30–3 pm, 440 Curry Student Center

Speed Data-ing 2020

Featuring: Sarah Connell, Jeff Sternberg, Tim Fraser, Grace Poudrier, and Avery Blankenship

March 11, 12–1:30 pm, 90 Snell Library

Visiting Speaker: Catherine D’Ignazio, MIT

Co-sponsored with the DSG

NULab-Shorenstein Center Misinformation Series

February 5, 12–1:30 pm, Wexner 434, Harvard Kennedy School

Misinformation Speaker Series: David G. Rand, Sloan School, MIT

Co-sponsored with the Shorenstein Center

February 12, 12–1:30 pm, Wexner 434, Harvard Kennedy School

Misinformation Speaker Series: Andrew Guess, Princeton University

Co-sponsored with the Shorenstein Center

February 26, 12–1:30 pm, Wexner 434, Harvard Kennedy School

Misinformation Speaker Series: Yochai Benkler, Harvard Law School

Co-sponsored with the Shorenstein Center

NULab Summer 2020 Events

June 11, 11 am–12pm

Mapping Black London in World War II

Co-hosted with the CSSH Dean’s Office

June 17, 3–4:15pm

DITI Showcase

Co-hosted with the CSSH Dean’s Office

NULab Fall 2020 Events

September 16, 12:15-1pm

DH Fall Grad Student Welcome

Co-sponsored with the DSG

September 30, 12:15–1 pm

DH in the Dissertation

Featuring: Abbie Levesque, Molly Nebiolo, and Cara Marta Messina

Co-sponsored with the DSG

October 6, 2:30–4 pm

NULab/DSG Fall Scholarship Celebration

Co-sponsored with the DSG

October 15, 11 am–12:30 pm

Social Dimensions of the Pandemic Panel

Speakers: David Lazer, Northeastern University, Andrea Parker, Georgia Institute of Technology, Jacqueline Wernimont, Dartmouth College, and Alessandro Vespignani, Northeastern University

October 28, 12:15–1 pm

NULab Grant Recipients Lightning Talks

Featuring: Jay Cephas, Justin Haner, and Meg Heckman

November 18, 12–1 pm

Speed Data-ing, Fall 2020

Co-sponsored with the DSG

November 19, 2:30–4 pm

Data, Activism, and Intersectionality Panel

Speakers: Khadijah Abdurahman, *We Be Imagining* podcast, Faithe Day, Purdue University, Sureshi M. Jayawardene, San Diego State University, and Angel David Nieves, Northeastern University

November 30, 2:30–4:30 pm

Workshop: Python and Text Analysis for Absolute Beginners

Instructors: Jen Ferguson and Sarah Connell

Co-sponsored with Research Data Services in the Northeastern University Library

December 1, 1–2 pm

ArcGIS Online Workshop

Co-sponsored with Boston Area Research Initiative (BARI)

December 11, 1–2:30 pm

What do the data tell us about election 2020? Panel

Speakers: Erika Franklin Fowler, Wesleyan University, Jill Lepore, Harvard University, Solomon Messing, ACRONYM, and Kate Starbird, University of Washington

NULab-Shorenstein Center Misinformation Series

October 7, 11 am–12 pm

Misinformation Speaker Series: Young Mie Kim, University of Wisconsin-Madison

Co-sponsored with the Shorenstein Center

October 21, 11 am–12 pm

Misinformation Speaker Series: Natalie Jomini Stroud, University of Texas at Austin

Co-sponsored with the Shorenstein Center