

## Curriculum Vitae

### Education

- Ph.D., University of Washington, Seattle, WA, Department of Communication 2014  
Dissertation Co-Chairs: Professors Gina Neff & Kirsten Foot  
**Dissertation: The Frictions and Flows of Data-Intensive Transformations: A Comparative Study of Discourses, Practices, and Structures of Digital Health in the U.S. and India**
- M.A., Columbia University, New York City, NY, Department of Anthropology 2008  
Advisor: Professor Brian Larkin  
**Thesis: War 2.0: Investigating the sounds, images, and network links of YouTube's battlefield**
- B.A. University of Pennsylvania, Philadelphia, PA 2003  
Psychology & English, Italian study abroad program, Padova, Italy

### Academic Appointments

- Director of Data Science Ethnography** May 2016-present  
**Co-lead [Data Science Studies Working group](#)**  
eScience Institute  
**Senior Research Scientist**  
Department of Human Centered Design & Engineering  
**Affiliate Faculty**  
Department of Communication  
University of Washington
- User Research and Human-Centered Design Consultant** May 2016-present  
pScanner project, Patient-Centered Scalable National Network for Effectiveness Research  
Institute of Translational Health Sciences  
University of Washington
- Moore/Sloan Data Science Postdoctoral Fellow** August 2014-May 2016  
**Washington Research Foundation Innovation Postdoctoral Fellow**  
**Data Science Ethnographer**  
eScience Institute  
Department of Human Centered Design & Engineering  
University of Washington
- User Research and Human-Centered Design Consultant** May 2014-Fall 2015  
**FindIT Tool design, Data QUEST project**  
Institute of Translational Health Sciences, University of Washington
- Ph.D. Research Intern, Microsoft Research New England (MSRNE)** Fall 2013  
Cambridge, MA

Social Media Collective and Computer Science  
Mentors: Dr. Adam Kalai & Dr. Mary Gray

### **Research Assistant, University of Washington, Seattle, WA**

Dr. Gina Neff (Department of Communication)

Spring 2011-Fall 2013

**Intel grant: Organizational Adoption and Adaptation of Patient Biosensor Data**

Dr. Gina Neff (Department of Communication) in collaboration with Dr. Carrie Dossick (Department of Construction Management)

Winter 2009-Summer 2010

**National Science Foundation Grant: Assessing Collaboration Across Organizational Boundaries in U.S. Green Construction: Does Working Together With New Information Technology Result In Better Buildings?**

Conducted ethnographic research: participant-observation across multiple sites, workplace observations, developed interview tools, conducted interviews, and developed qualitative coding scheme using Atlas Ti

Dr. Kirsten Foot (Department of Communication)

Summer 2007-Summer2008

Web sphere analysis at web memorializing after the Virginia Tech shootings shootings

Dr. Ralina Joseph (Department of Communication)

Summer 2009

### **Publications & Presentations**

#### **Peer-reviewed Articles:**

Neff, G., Tanweer, A., **Fiore-Gartland, B.**, Osburn, L. (2017) Critique and Contribute: A Practice-based Framework for Improving Critical Data Studies and Data Science. *Big Data*, Special issue on social and technical trade offs 5(2): 85-97. <https://doi.org/10.1089/big.2016.0050> (OA)

**Fiore-Gartland B.** (2017) [Technological Residues](#). *Continent* 6.1, 24-29.

Tanweer, A., **Fiore-Gartland, B.**, & C. Aragon (2016) [Impediment to Insight to Innovation: understanding data assemblages through the breakdown-repair process](#). *Information Communication & Society*, 19(6), 736-752. DOI: 10.1080/1369118X.2016.1153125

**Fiore-Gartland, B.** & Neff, G. (2015) [Communication, Mediation, and the Expectations of Data: Data Valences across Health and Wellness Communities](#). *International Journal of Communication*, 9, 1466-1484.

**Fiore-Gartland, B.** & Neff, G. (2016) Disruption and the Political Economy of Biosensor Data. In Nafus, D. (Ed.) *Biosensors in Everyday Life*. MIT Press, Cambridge, MA.

**Fiore-Silfvast, B.** (2012). [User-Generated Warfare: A Case of Converging Wartime Information Networks and Coproductive Regulation on YouTube](#). *International Journal of Communication* 6, 1965-1988.

Neff, G, **Fiore-Silfvast, B.** & Sturts Dossick, C. (2010). A Case Study of the Failure of

Digital Communication to Cross Knowledge Boundaries in Virtual Construction. *Information Communication & Society*, 13(4), 556-573.

Neff, G. **Fiore-Silfvast B.**, Dossick, C. (2014) Material Challenges to Communication Research: Rethinking the Dynamic Roles of Materiality in Communication. In International Communication Association (ICA) 2013 Theme book.

Neff, G., **Fiore-Silfvast, B.**, & Sturts Dossick, C. From Documents to Structures: The Material Social Life of Documents in Organizing. (In preparation for review at *Organization Science*).

Stephens, K. Hyunggu Jung, Hossein Estiri, **Brittany Fiore-Gartland**, Sally Lee, Ya-Fen Chan, Patrick Heagerty, Alison Kosel, Gina Keppel, Sean Munson, Laura-Mae Baldwin. Design Considerations for Developing Data Profiling Tools for Distributed Electronic Health Data Networks (In preparation for review at *JAMIA*).

#### **Peer-reviewed Conference Papers & Presentations:**

Tanweer, A., Drouhard, M., Fiore-Gartland, B. Hamilton, J., Caspi, A., , Bolten, N., Tan, Kaicheng (2017) "[Mapping for accessibility: A case study of ethics in data science for social good.](#)" Bloomberg Data for Good Exchange.

Geiger, S., **Fiore-Gartland, B.**, & Cabasse Mazel, C. (2017) "Jupyter and the changing rituals around computation", JupyterCon, August 22-25, 2017, New York, NY <http://jupytercon.com>

Norén, L. and **Fiore-Gartland, B.** "Data science interdisciplinarity: Radical, adjacent, and distant disciplines" *Society for the Social Studies of Science*, (45) Aug 30-Sept 2, 2017, Boston, MA.

Tanweer, A. & **Fiore-Gartland, B.** (2017) "'Data for Good': Harbinger of social sector change?" Society for the Social Studies of Science, August 30-September 2, 2017, Boston, MA.

Drouhard, M., Tanweer, A., **Fiore-Gartland, B.** (2017) "[A Typology of Hackathon Events](#)" Hackathon Workshop, CSCW '17, February 25, 2017, Portland, OR

**Fiore-Gartland, B.** & Tanweer, A. (2016) "'It's the context stupid': Reproducibility as a scientific communication problem" Society for the Social Studies of Science, August 31-September 3, 2016, Barcelona, Spain.

**Fiore-Gartland, B.** (2016) "Towards a sociotechnical and ethical urban data science" Convening on Urban Data Science, University of Chicago, April 27-29, Chicago, IL.

**Fiore-Gartland, B.** & Geiger, S. (2016) "What the hack? Hacking culture and discourse in data science pedagogy. Theorizing the Web Conference, April 15-16, Astoria, NY

Tanweer, A., **Fiore-Gartland, B.**, Neff, G., & Aragon, C. (2016) [Data empathy: a call for human subjectivity in data science.](#) Human-centered Data Science workshop,

CSCW '16, February 27 - March 02, 2016, San Francisco, CA, USA.

Rokem, A., Aragon, C., Arendt, A., **Fiore-Gartland, B.** Hazelton, B., Hellerstein, J., Herman, B., Howe, B., Lazowska, E., Parker, M., Staneva, V., Stone, S. (2015) Building an urban data science summer program at the University of Washington eScience Institute, Bloomberg Data for Good Exchange Conference, September 28, New York City, NY. [https://github.com/arokem/2015-Bloomberg-DS4GX/blob/gh-pages/Edu\\_Rokem\\_47.pdf](https://github.com/arokem/2015-Bloomberg-DS4GX/blob/gh-pages/Edu_Rokem_47.pdf)

Tanweer, A., **Fiore-Gartland, B.**, & C. Aragon (2015) The Role of Breakdown in Imagining Big Data: Impediment to Insight to Innovation. Association of Internet Researchers Conference (IR16), October 21-24, Phoenix, AZ. *Selected as one of the best conference papers to submit for Information, Communication, Society journal article.*

Cabasse-Mazel, C., **Fiore-Gartland, B.**, & L. Noren (2015) Building Data Science: Translating Imagined Collaborations Into Place. Society for Social Studies of Science (4S), November 11-14, Denver, CO.

**Fiore-Silfvast, B.**, Kalai, A., Gray, M., Monroy-Hernandez, A. & B. Barak (Under Review) Managing Email, Managing Expectations: Batching, Action Folders, “Inbox Zero”, and Beyond...

**Fiore-Silfvast, B.** (2014) What We Talk About When We Talk About Data: Valences and the Social Performance of Digital Health Metrics. Panel: Mobile Media: Data, Habits, Screens, Society for Cinema and Media Studies (SCMS), March 19-23, 2014, Seattle, WA

**Fiore-Silfvast, B.** & Neff, G. (2013) What We Talk About When We Talk Data: Metrics, Mobilization, and Materiality in Performing Health Online. Association of Internet Researchers Conference (IR14), October 23-26, Denver, CO.

**Fiore-Silfvast, B.** & Neff, G. (2013). What We Talk About When We Talk Data: Valences and the Social Performance of Multiple Metrics in Digital Health. Proceedings of Ethnographic Praxis in Industry Conference (EPIC), September 15-17, 2013 London, UK.

Neff, G., **Fiore-Silfvast B.**, Dossick, C. (2013). Material Challenges to Communication Research: Rethinking the Dynamic Roles of Materiality in Communication. **Top 4 Theme Paper: Challenging Communication Research**, International Communication Association, June 17-21, 2013, London, UK.

Neff, G., **Fiore-Silfvast B.** (2012). What We Talk About When We Talk Data: Metrics, Mobilization, and Materiality in Performing Health Online. Theorizing the Web Conference, March 1-2, 2012, New York City, NY.

**Fiore-Silfvast B.**, Perin N., Iyengar K., Iyengar S., Anderson R., Hartung C., K. Israel-Ballard (2013). Mobile video for patient education: The midwives' perspective. Proceedings of the 3<sup>rd</sup> ACM Symposium on Computing for Development, January 11-12, 2013, Bangalore, India.

**Fiore-Silfvast B.** (2012). Informationalizing healthcare: Knowledge production in a

mobile health project in rural India. Society for Social Studies of Science, October 17-20, 2012, Copenhagen, DK.

Gomez, R., Baron, L.F. & **B. Fiore-Silfvast** (2012). The Changing Field of ICTD: Content analysis of published research, 2000-2010. In Proceedings of the Fifth International Conference on Information and Communication Technologies and Development (ICTD 2012), March 12-15, Atlanta, GA.

**Fiore-Silfvast, B.**, Neff, G. & C.S. Dossick (2011). From Conversations to Structures: The Material Social Life of Documents in Organizational Communication. International Communication Association Virtual Conference, May 23-June 11, 2011.

**Fiore-Silfvast, B.**, Neff, G. & C.S. Dossick (2011). From Conversations to Structures: The Material Social Life of Documents in Organizational Communication [Poster], Construction Research in Industry Conference (CIRC '11), November 4, 2011, University of Washington, Seattle, WA.

**Fiore-Silfvast, B.** (2009). "User-Generated Warfare: Network Armies Battle on YouTube" AoIR Conference, October 2009, Milwaukee, WI, USA.

Neff, G, **Fiore-Silfvast, B.**, C.S. Dossick (2009). Model Failure: Assemblages, Performances, and Uneasy Collaborations in Commercial Construction. Communication and Information Technology Session, American Sociological Association, August 2009, San Francisco, CA, USA.

### Technical Reports & Industry papers

**Fiore-Silfvast, B.** (July 2012) Field Report: User Assessment of Noninvasive Anemia Screening Technologies. Udaipur, India, PATH, University of Washington, ARTH.

Neff, G. Sturts Dossick, C. & **Fiore-Silfvast, B.** (2011) Implications of new Construction Technology for Western Washington Contractors, Pacific Northwest Center for Construction Research and Education, University of Washington.  
<http://cm.be.washington.edu/Documents/Final%20BIM%20report%208.3.11.pdf>

### Blog posts

**Fiore-Gartland, B.** & Tanweer, A. (2016) "Community-level data science and its spheres of influence: beyond novelty squared" eScience Institute, April 4, 2016.

**Fiore-Silfvast, B.** (2014) "Undercurrents at the DSE Summit" eScience Institute, October 24. <http://escience.washington.edu/blog/undercurrents-dse-summit>

**Fiore-Silfvast, B.** (2014) "Hacked Ethnographic Fieldnotes" *AstroHackWeek Blog*, October 1. <http://astrohackweek.github.io/blog/ethnographic-notes.html>

**Fiore-Silfvast, B.** (2014) "Ethnography in Communities of Big Data: Contested Expectations for Data in the 23andMe and FDA Controversy" *Ethnography Matters*, February 17. <http://ethnographymatters.net/blog/2014/02/17/ethnography-in-communities-of-big-data-contested-expectations-for-data-in-the-23andme-and->

[fda-controversy/](#)

Neff, G. and **Fiore-Silfvast, B.** (2013) "Pictures of Health: Does the Future of Wellness Need Us?" *Cyborgology*, February 26.

<http://thesocietypages.org/cyborgology/2013/02/26/ttw13-preview-gina-neff-and-brittany-fiore-silfvast-pictures-of-health-does-the-future-of-wellness-need-us/>

## **Academic Awards & Grants**

**National Science Foundation, Doctoral Dissertation Research Improvement Grant** Winter 2012  
*Dissertation Research: The Informationalization of Healthcare: Shifting Subjectivities, Organizational Forms, and Ways of Knowing in the U.S. and India*

**TEDMED, TEDMED Frontline Scholar Award** Spring 2013

University of Washington, **Peter Clarke Graduate Research Award** Fall 2012

University of Washington, **Levy Loan Fund Award** Fall 2012

## **Teaching Experience**

### **Workshops**

**Data Walk for the City of Seattle Open Data Champions** December 7, 2017

**Data Walk for Social Good** Summer 2017  
Data Science for Social Good program, eScience Institute, UW

### **Collaboration and stakeholder analysis workshop**

**The Promise and Perils of Data Science: A Workshop on Ethical Thinking**

**The Hand off: Reproducibility for Project Sharing and Extensibility**

Data Science for Social Good program, eScience Institute, UW Summer 2017, Summer 2016  
Data Science for Social Good program, University of British Columbia Summer 2017  
(with Anissa Tanweer and Meg Drouhard)

Co-Leader (with Cecilia Aragon)  
**Data Science Studies Working Group** Winter 2016-present  
eScience Institute

Director (with Cecilia Aragon)  
**Data Science Ethnography Directed Research Group** 2014-2016  
Human-Centered Design and Engineering

Teaching Assistant, Dr. Kirsten Foot  
**Basic Concepts of New Media, COM 300** Winter 2011

Teaching Assistant, Dr. Bruce Kochis (Interdisciplinary Arts & Sciences, UW Bothell)  
**Human Rights Senior Seminar** Summer 2009  
Helped lead and develop a Human Rights senior seminar, bringing 25

undergraduate students to Washington DC for a week to research and experience the politics of human rights.

Teaching Assistant, Dr. David Domke Fall 2010  
***Introduction to Mass Communication, COM 201***

Teaching Assistant, Dr. Kathleen Fern-Banks Fall 2008  
***Public Relations and Society, COM 444***

## **Professional Experience**

**AstrumU**, Seattle, Washington Fall 2017-present  
*Consultant*  
Strategy, organizational culture, ethics, user research, and human-centered design

**PATH**, Seattle, Washington Fall 2012  
*Consultant*  
Evaluated multi-stakeholder partnerships and made recommendations to strengthen partnership effectiveness and communication through stakeholder interviews and project observation.

*Qualitative Researcher* Winter-Spring 2012  
Conducted interviews and focus groups with midwives in rural India around non-invasive anemia screening technologies. Prepared user assessment field report published by PATH.

**Microsoft**, Seattle, Washington 2008-2013  
*Leadership Development Coach*  
Coach Microsoft executives on core leadership and communication skills in three-day intensive training "*Doing Leadership at Microsoft*".

**Kaiser Family Foundation**, Menlo Park, CA 2004-2006  
*Program Associate*, International Health Journalism Fellowship Program  
Developed and implemented multi-sectored partnerships in India on global health issues, media landscapes, and health communication campaigns.

## **Mentoring/Service**

**Executive Committee**, eScience Institute 2017-present

**Nominee for the Graduate School Postdoc Mentoring Award** 2016

**Co-organizer**, "Critical Data Studies" Society for Social Studies of Science (4S), 2016  
August 31-September 3, 2016, Barcelona, Spain.

**Co-organizer**, "Developing a research agenda for Human-centered Data Science" 2016  
CSCW '16, February 28, San Francisco, CA

**Data Science Ethnography Directed Research Group** 2014-2016  
(PhD students, MA students, and undergrad students)

<b>Human Rights and Public Culture Research Cluster</b> , University of Washington Linked classroom-based learning to community engagement by arranging the speaker events for the community.	2009-2010
<b>CEO Women (Creating Economic Opportunity for Women)</b> , Oakland, CA <i>Development volunteer</i> Helped with fundraising, marketing, event planning, and business strategy	2005-2006
<b>BriBri Indigenous Community</b> , Yorkin, Costa Rica <i>Ethnographic Interviewer, Cultural translator, English/ Spanish Teacher</i> Conducted ethnographic research through interviews with community leaders Wrote a book (English and Spanish) recording oral accounts of the Bri Bri cultural beliefs, practices, histories and childrens' stories Taught English at the local school and in private lesson, Spanish tutor	2003-2004

### **Invited Talks**

“A Competing Values Approach to Reproducibility” Lightning talk, Moore Sloan Data Science Summit, November 6, 2017

National Academy of Sciences webinar “Envisioning Data Science Education” on “Data Science ethics”, October 17, 2017, [Webinar Recording](#), [Slides](#)

Guest Lecture: “Ethnography and the Human Contexts of Data Science” UW INFO 470 Research Methods, November 13, 2017

Guest lecture "Ethnography in Data Science" for UW "Data and Society" October 5, 2017 (with Anissa Tanweer)

“Data science in academia: Emerging identities, collaborations, and ethics” and panel participant for “Data Science as a Liberal Art” at Lafayette College, September 4-5, 2017

“How to ‘think like a data scientist’: An ethnographic perspective on data science in academia”, Center for Statistics and Social Science seminar, May 24, 2017.

“Culture, Context, and Communication: An Ethnographic Lens on the Challenges of Reproducibility in Data Science” Retractions, Retractions, Replications and Reproducibility: Changes in Scientific Knowledge Production and Communication, Newkirk Center for Science and Society, UC Irvine, April 28, 2017

“Ethical Thinking for the Future of Urban Data Science”, McKinley Futures Studio, College of Built Environments, UW, April 3, 2017

“The Promise and Perils of Data Science in the Wild” Community Data Science Seminar, Data and Society, February 16, 2017 (with Anissa Tanweer)

“Toward a sociotechnical and ethical data science” Community Data Science Seminar, eScience Institute, March 8, 2016.

Maintenance, repair, & beyond. Invited workshop, 4S Conference, November 10,



2015, Denver, CO.

“What are people managing when they manage their email? An interdisciplinary study of moments, systems, and strategies”, November 25, 2013, Microsoft Research New England, Cambridge, MA (with Adam Kalai).

“The Qualitative Dimensions of Making Data Flow in Digital Health in the U.S. and India” Change seminar, April 27, 2013, University of Washington, Seattle, Washington.

“User-Generated Warfare: A Case of Converging Information Networks and Coproductive Regulation on YouTube” April 27, 2013. Human Rights and Public Culture course lecture, University of Washington Bothell, Bothell, WA.

“Informationalizing healthcare: A case study of a mobile health project in India” October 10, 2012, Microsoft Research India, Bangalore, India.

“Accessing scientific research: How to make sense of personal data” (Panel) Quantified Self Conference, September 16, 2012, Palo Alto, CA.

“Health hacking” (Panel) Science Online, UW, March 28, 2013.

“Hacking Institutions: Data Contexts and the Remaking of Healthcare” (Presentation), May 29, 2012, Institute for Systems Biology, Seattle, WA, (with Prof. Gina Neff)

“User-Generated Warfare: A Case of Converging Information Networks and Coproductive Regulation on YouTube” iConference 2011, Seattle, Washington, USA, February 8-11, 2011.

Doctoral Colloquium, Ethnographic Praxis in Industry Conference, September 15, 2013, London, UK.

Doctoral Preconference, Organizational Communication Division, International Communication Association (ICA), May 26, 2011, Boston, MA.

## **Blog posts**

“[Data Walking for Social Good](#)” *Data Science Studies, Medium*, October 6, 2017, with Anissa Tanweer and Meg Drouhard

“[Community-level data science and its spheres of influence: beyond novelty squared](#)” eScience Institute, April 4, 2016, with Anissa Tanweer.

“[Undercurrents at the DSE Summit](#)” eScience Institute, October 24, 2014.

“[Hacked Ethnographic Fieldnotes](#)” *AstroHackWeek Blog*, October 1, 2014.

“[Ethnography in Communities of Big Data: Contested Expectations for Data in the 23andMe and FDA Controversy](#)” *Ethnography Matters*, February 17, 2014.

[“Pictures of Health: Does the Future of Wellness Need Us?”](#) *Cyborgology*, February 26, 2013, with Gina Neff.

## **Affiliations**

### ***Scholarly Associations***

Computer Supported Cooperative Work (CSCW), Member  
Ethnographic Praxis in Industry (EPIC), Member  
International Communication Association (ICA), Member  
Society for Social Studies of Science (4S), Member  
Association of Internet Researchers (AoIR), Member

### ***University of Washington Campus Groups***

**Human-centered Data Science Lab (HDS)**, A research group led by Cecilia Aragon focused on understanding and enabling humans to explore and gain insight from vast data sets.

### **Urban@UW**

**Reproducibility and Open Science Working Group**, eScience Institute

**Software and Tools working group**, eScience Institute

**Collaboration, Technology, & Organizational Practices (CTOP) Group**, Faculty and students focuses on questions of how teams of people work together with and through technology.

**Dub**, HCI and Design Community at UW

**Change seminar**, Faculty and students exploring the role of information and communication technologies (ICTs) in improving the lives of underserved populations in low-income regions

## **Software and Language Skills**

### ***Software***

Fully competent in Word, Excel, Atlas Ti, Dedoose, PowerPoint, SPSS statistical programs, conversational Python

### ***Languages***

Proficient in Spanish, Conversational Italian, Beginner Hindi