

Shion Guha

CONTACT INFORMATION

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RESEARCH INTERESTS

human-centered data science, ai and public policy, algorithms in public services, algorithmic bias

RESEARCH APPOINTMENTS

University of Toronto, Toronto, ON, Canada **Winter 2021 -**
Assistant Professor, Faculty of Information

Parkview Health, Fort Wayne, IN, USA **Summer 2020 -**
Visiting Research Scientist, Mirro Center for Research and Innovation

Marquette University, Milwaukee, WI, USA **Fall 2016 - Spring 2021**
Assistant Professor, Department of Computer Science

IBM Research, Cambridge, MA, USA **Summer 2015**
Graduate Research Intern, Data Science User Experience Group

GRANTS AND FUNDING

National Science Foundation Future of Work #2026607, \$150,000 (2021-2022) (PI)

Parkview Health Faculty Research Grant, \$79,522 (2020-2021) (PI)

Biocrossroads Datax Bioinnovation Research Challenge Award. \$15,000 (2020-2021) (Co-PI)

American Political Science Association, RPCI grant, \$20,000 (2020-2021) (Co-PI)

National Science Foundation CRII #1850517, \$175,000 (2019-2021) (PI)

Facebook Computational Social Science Methodology Research Award, \$50,000 (2019-2020) (PI)

Northwestern Mutual Data Science Institute Award: \$100,000 (2019-2021). (PI)

National Science Foundation REU Site #1950826, \$404,683 (2020-2023) (Senior Personnel)

Marquette University Way-Klingler Early Career Award, \$50,000, (2019-2020). (PI)

Marquette University Faculty Fellowship/Regular Research Grant, \$17,000 (2019-2020). (Co-PI)

Direct Supply Faculty Research Award, \$10,356, (2017) (PI)

HONORS AND AWARDS

CHI 2020: Best Paper Honorable Mention for paper **C22** (top 5%).
US Catholic Magazine: Featured Profile on AI and Ethics, Vol. 85 No. 2, February 2020.
CHI 2018: Significant external press attention (e.g. Gizmodo, ABC News etc.) for paper **C17**.
Recognition for exceptional reviewing: CHI (2016, 2017, 2019, 2020), CSCW (2016, 2017)
GROUP 2018: Best of GROUP'18 for paper **C15** (top 2%). Invited to ToSC special issue.
CSCW 2018: Student Travel Grant Award for **EA6**.
ICTD 2016: Best of ICTD'16 for paper **C9** (top 1%). Invited to ITID special issue.
SM+S 2015: Significant external press attention (e.g. Scientific American, Yahoo etc.) for **J4**.
SIGMOD 2012: Student Travel Grant Award for **EA1**.
Indian Statistical Institute: MS fellowship, 2008 - 2010.
Indian Statistical Institute: graduated with "**First Class with Distinction**" honors, 2010.
Indian Statistical Institute: ranked **first** in cohort and **best** MS thesis, 2010.
J1: Recognized as an important study by World Bank Water and Sanitation Program, March 2009.
Indian Statistical Institute: ranked **first** in All India entrance examination, 2008.
Jadavpur University: graduated with "**First Class**" honors, 2008.

EDUCATION

Cornell University, Ithaca, New York USA

Ph.D, Information Science, Statistics, 2016
M.S, Information Science, 2014

Indian Statistical Institute, Bangalore, Karnataka India

M.S, Information Science, 2010

Jadavpur University, Kolkata, West Bengal India

B.B.A, Information Systems, 2008

BOOKS

Cecilia Aragon, **Shion Guha**, Marina Kogan, Michael Muller and Gina Neff. 2022. *Human-Centered Data Science: An Introduction*. (MIT Press; Publication Date: Winter 2022)

JOURNAL ARTICLES

J15. Devansh Saxena, Karla Badillo-Urquiola*, Pamela J Wisniewski, Shion Guha. 2021. A Framework of High-Stakes Algorithmic Decision-Making for the Public Sector Developed Through a Case Study of Child Welfare. In Proceedings of the ACM on Human-Computer Interaction (CSCW). (accepted)

J14. Patrick Skeba, Devansh Saxena, **Shion Guha** and Eric P. S. Baumer. 2022. Who as a Choice?: Survey-Based Predictors of Volitionality in Facebook Use and Non-use. Proceedings of the ACM on Human Computer Interaction, GROUP (accepted)

J13. Fayika Farhat Nova, Michael Ann DeVito, Pratyasha Saha, Kazi Shohanur Rashid, Shashwata Roy Turzo, Sadia Afrin, and **Shion Guha**. 2021. Facebook Promotes More Harassment: Social Media Ecosystem, Skill and Marginalized Hijra Identity in Bangladesh. Proc. ACM Hum.-Comput. Interact. 5, CSCW1, Article 157 (April 2021), 35 pages. <https://doi.org/10.1145/3449231>

J12. Md Kamrul Hasan, Md Hasanul Aziz, Md Ishrak Islam Zarif, Mahmudul Hasan, M. M. A. Hashem, **Shion Guha**, Richard Love and Sheikh Iqbal Ahamed. 2020. Noninvasive Hemoglobin Level Prediction in a Mobile Phone Environment: State of the Art Review and Recommendations

J11. Devansh Saxena, Patrick Skeba, **Shion Guha** and Eric P. S. Baumer. 2020. Methods for Generating Typologies of Non/use. *Proc. ACM Hum.-Comput. Interact.* 4, CSCW, Article 27 (May 2020), 26 pages. <https://doi.org/10.1145/3392832>

J10. Eric P. S. Baumer, **Shion Guha**, Patrick Skeba, and Geraldine Gay. 2019. All Users are (Not) Created Equal: Predictors Vary for Different Forms of Facebook Non/use. *Proc. ACM Hum.-Comput. Interact.* 3, CSCW, Article 80 (November 2019), 28 pages. DOI: 10.1145/3359182

J9. Jess C Hohenstein, Eric PS Baumer, Lindsay Reynolds, Elizabeth Lindley Murnane, Dakota O'Dell, Seoho Lee, **Shion Guha**, Yu Qi, Erin Rieger, Geri Gay. 2018. Supporting Accurate Interpretation of Self-Administered Medical Test Results for Mobile Health: Assessment of Design, Demographics, and Health Condition. *Journal of Medical Internet Research, Human Factors* 2018;5(1):e9. doi: 10.2196/humanfactors.8620

J8. Syed Ishtiaque Ahmed, **Shion Guha**, Md. Rifat Raashidujjaman, Faysal Hossain and Nicola Dell. 2017. Privacy in Repair: An Analysis of the Privacy Challenges Surrounding Broken Digital Artifacts in Bangladesh. *Information Technologies & International Development*, vol 13, 186-199. url: <http://itidjournal.org/index.php/itid/article/view/1587>

J7. Mark Matthews, Elizabeth Murnane, Jaime Snyder, **Shion Guha**, Pamara Chang, Gavin Doherty, and Geri Gay. 2017. The Double-Edged Sword: A Mixed Methods Study Of The Interplay Between Bipolar Disorder and Technology use. *Computers in Human Behavior*, Vol 75, Pg. 288-300. doi: <https://doi.org/10.1016/j.chb.2017.05.009>

J6. Eric P.S. Baumer, David Mimno, **Shion Guha**, Emily Quan and Geri Gay. 2017. Comparing Grounded Theory and Topic Modeling: Extreme Divergence or Unlikely Convergence? *Journal of the Association of Information Science and Technology*. doi:10.1002/asi.23786

J5. Elizabeth Murnane, Dan Cosley, Pamara Chang, **Shion Guha**, Ellen Frank, Geri Gay and Mark Matthews. 2016. Self-Monitoring Practices, Attitudes, and Needs of Individuals with Bipolar Disorder: Implications for the Design of Technologies to Manage Mental Health. *Journal of the American Medical Informatics Association*. doi: 10.1093/jamia/ocv165

J4. Eric P.S. Baumer, **Shion Guha**, Emily Quan, David Mimno and Geri Gay. 2015. Missing Photos, Suffering Withdrawal, or Finding Freedom? How Experiences of Social Media Non-Use Influence the Likelihood of Reversion. *Social Media + Society*, Vol 1, No. 2. doi: 10.1177/2056305115614851 (**Significant national and international press coverage from Scientific American, NBC News, Huffington Post etc.**)

J3. Jeremy Birnholtz, **Shion Guha**, Geri Gay, Y. Connie Yuan, and Caren Heller. 2013. Cross-campus collaboration: A scientometric and network case study of publication activity across two campuses of a single institution. *Journal of the American Society of Information Science and Technology*. Vol. 64, No. 1, Pg. 162-172. doi: 10.1002/asi.22807

J2. **Shion Guha**, Biswajit Thakur and Shibnath Chakrabarty. 2010. Collaboration in a Web Enabled Design Management System - A Case Study in Kolkata, India. *Journal of Information Technology in Construction*, Vol. 15, Pg. 86 - 107.

J1. **Shion Guha**. 2007. Valuation of Clean Water Supply by Willingness to Pay Method in a Developing Nation: A Case Study in Calcutta, India. *Journal of Young Investigators*, (JYI) Vol. 17, No. 4. (**Recognized as an important study in the World Bank Water and Sanitation Program Annual Report, 2009**)

C22. Devansh Saxena, Karla Badillo-Urquiola, Pamela J. Wisniewski and **Shion Guha**. 2020. A Human-Centered Review of Algorithms used within the U.S. Child Welfare System. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI 20). Association for Computing Machinery, New York, NY, USA, 115. DOI:<https://doi.org/10.1145/3313831.3376229> (**Best Paper Honorable Mention, top 5%**)

C21. S. M. Taiabul Haque, Md Romael Haque, Swapnil Nandy, Priyank Chandra, Mahdi Nasrullah Al-Ameen, **Shion Guha**, and Syed Ishtiaque Ahmed. 2020. Privacy Vulnerabilities in Public Digital Service Centers in Dhaka, Bangladesh. In Proceedings of the 2020 International Conference on Information and Communication Technologies and Development (ICTD2020). Association for Computing Machinery, New York, NY, USA, Article 14, 112. DOI:<https://doi.org/10.1145/3392561.3394642>

C20. Riddhiman Adib, Eyad Aldawod, Nathan Lang, Nina Lasswell and **Shion Guha**. 2019. "Analyzing Happiness: Investigation on Happy Moments using a Bag-of-Words Approach and Related Ethical Discussions," 2019 IEEE 43rd Annual Computer Software and Applications Conference (COMPSAC), Milwaukee, WI, USA, 2019, pp. 653-662. doi: 10.1109/COMPSAC.2019.00099

C19. Turki Alelyani, Larry Moralez, Arup Kumar Ghosh, **Shion Guha**, and Pamela Wisniewski, P. 2019. Examining Parent versus Child Reviews of Parental Control Apps on Google Play. In: Meiselwitz G. (eds) Social Computing and Social Media. Communication and Social Communities. HCII 2019. Lecture Notes in Computer Science, vol 11579. Springer, Cham

C18. Fayika Farhat Nova, MD. Rashidujjaman Rifat, Pratyasha Saha, Syed Ishtiaque Ahmed, and **Shion Guha**. 2019. Online Sexual Harassment over Anonymous Social Media in Bangladesh. In The Tenth International Conference on Information and Communication Technologies and Development (ICTD 19), January 47, 2019, Ahmedabad, India. ACM, New York, NY, USA, 12 pages. <https://doi.org/10.1145/3287098.3287107>

C17. Arup Kumar Ghosh, Karla Badillo-Urquiola, **Shion Guha**, Joseph J. LaViola Jr, and Pamela J. Wisniewski. 2018. Safety vs. Surveillance: What Children Have to Say about Mobile Apps for Parental Control. In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI 18). ACM, New York, NY, USA, Paper 124, 14 pages. DOI: <https://doi.org/10.1145/3173574.3173698> (**Significant national and international press coverage from ABC News, Gizmodo, Science Daily etc.**)

C16. Heather Bort, **Shion Guha** and Dennis Brylow. The impact of exploring computer science in Wisconsin: where disadvantage is an advantage. In Proceedings of the 23rd Annual ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2018). ACM, New York, NY, USA, 57-62. DOI: <https://doi.org/10.1145/3197091.3197140>

C15. **Shion Guha**, Eric P.S. Baumer, and Geri K. Gay. 2018. Regrets, Ive Had a Few: When Regretful Experiences Do (and Dont) Compel Users to Leave Facebook. In Proceedings of the 2018 ACM Conference on Supporting Groupwork (GROUP 18). ACM, New York, NY, USA, 166-177. DOI: <https://doi.org/10.1145/3148330.3148338> (**Best of GROUP, top 2% of papers, invited to ToSC special issue**)

C14. Syed Ishtiaque Ahmed, Md. Romael Haque, **Shion Guha**, Md. Rashidujjaman Rifat, and Nicola Dell. 2017. Privacy, Security, and Surveillance in the Global South: A Study of Biometric Mobile SIM Registration in Bangladesh. In Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI 17). ACM, New York, NY, USA, 906-918. DOI: <https://doi.org/10.1145/3025453.3025961>

C13. Eric P.S. Baumer, Xiaotong Xu, Christine Chu, **Shion Guha**, and Geri K. Gay. 2017. When Subjects Interpret the Data: Social Media Non-use as a Case for Adapting the Delphi

Method to CSCW. In Proceedings of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 17). ACM, New York, NY, USA, 1527-1543. DOI: <https://doi.org/10.1145/2998181.2998182>

C12. Michael Muller, **Shion Guha**, Eric P.S. Baumer, David Mimno, and N. Sadat Shami. 2016. Machine Learning and Grounded Theory Method: Convergence, Divergence, and Combination. In Proceedings of the 19th International Conference on Supporting Group Work (GROUP '16). ACM, New York, NY, USA, 3-8. DOI: <https://doi.org/10.1145/2957276.2957280>

C11. Michael Muller, N. Sadat Shami, **Shion Guha**, Mikhil Masli, Werner Geyer, and Alan Wild. 2016. Influences of Peers, Friends, and Managers on Employee Engagement. In Proceedings of the 19th International Conference on Supporting Group Work (GROUP 16). ACM, New York, NY, USA, 131-136. DOI: <https://doi.org/10.1145/2957276.2957292> 131-136.

C10. **Shion Guha**, Michael Muller, N Sadat Shami, Mikhil Masli and Werner Geyer. 2016. Using Organizational Social Networks to Predict Employee Engagement. In Proceedings of the Tenth International AAAI Conference on Weblogs and Social Media (ICWSM'16). 571-574.

C9. Syed Ishtiaque Ahmed, **Shion Guha**, Md. Rifat Raashidujjaman, Faysal Hossain and Nicola Dell. 2016. Privacy in Repair: Challenges around the Broken Digital Objects in Bangladesh. In Proceedings of the Eighth ACM International Conference on Information and Communication Technologies and Development (ICTD'16). Article 11, 10 pages. (**Best of ICTD, top 1% of papers, invited to ITID special issue**)

C8. **Shion Guha** and Stephen B. Wicker. 2015. Spatial Subterfuge: An Experience Sampling Study To Predict Deceptive Location Disclosures. In Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp'15). 1131-1135.

C7. **Shion Guha** and Stephen B. Wicker. 2015. Do Birds Of The Same Feather Watch Each Other?: Homophily and Social Surveillance in Location Based Social Networks. In Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW'15). 1010-1020.

C6. **Shion Guha**, and Jeremy Birnholtz. 2013. Can You See Me Now? Location, Visibility, and the Management of Impressions on foursquare". In Proceedings of the 15th International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI'13). 183-192.

C5. **Shion Guha**, Stephanie Steinhardt, Syed Ishtiaque Ahmed and Carl Lagoze. 2013. Following Bibliometric Footprints: Computer Science and the ACM Digital Library". In Proceedings of the 13th ACM/IEEE-CS joint conference on Digital Libraries (JCDL'13). 139-142.

C4. **Shion Guha**. 2009. Collaborative Web Based Construction Informatics - A Learning Sciences Approach in an Indian context. In Proceedings of the International Conference on Software Technology and Engineering (ICSTE'09), World Scientific Press, ISBN 978-981-4289-97-9.

C3. **Shion Guha**. 2007. Planning with Uncertainties in a Heritage Building Restoration Project. In Proceedings of the IEEE International Conference on Industrial Engineering and Engineering Management (IEEM'07), ISBN 978-1-4244-1529-8.

C2. **Shion Guha**. 2007. Construction Management Through Web Services in Calcutta, India. In Proceedings of the International Conference on Business Informatics (IBIC'07), Logos Verlag Berlin, ISBN 978-3-8325-1869-1.

C1. **Shion Guha**. 2007. Time Estimate of a Heritage Building Restoration Project by Monte

Carlo Simulation. In Proceedings of the International Conference on Modeling and Simulation (CITICOMS'07).

JURIED EXTENDED
ABSTRACTS

EA17. Fayika Farhat Nova, Michael Ann DeVito, Pratyasha Saha, Kazi Shohanur Rashid, Shashwata Roy Turzo, Sadia Afrin, and **Shion Guha**. 2020. Understanding How Marginalized Hijra in Bangladesh Navigate Complex Social Media Ecosystem. Conference Companion Publication of the 2020 on Computer Supported Cooperative Work and Social Computing. Association for Computing Machinery, New York, NY, USA, 353358. DOI:<https://doi.org/10.1145/3406865.3418317>

EA16. MD Romael Haque, Katherine Weathington, Joseph Chudzik, and **Shion Guha**. 2020. Understanding Law Enforcement and Common Peoples' Perspectives on Designing Explainable Crime Mapping Algorithms. Conference Companion Publication of the 2020 on Computer Supported Cooperative Work and Social Computing. Association for Computing Machinery, New York, NY, USA, 269273. DOI:<https://doi.org/10.1145/3406865.3418330>

EA15. Devansh Saxena and **Shion Guha**. 2020. Conducting Participatory Design to Improve Algorithms in Public Services: Lessons and Challenges. Conference Companion Publication of the 2020 on Computer Supported Cooperative Work and Social Computing. Association for Computing Machinery, New York, NY, USA, 383388. DOI:<https://doi.org/10.1145/3406865.3418331>

EA14. Michael Muller, Cecilia Aragon, **Shion Guha**, Marina Kogan, Gina Neff, Cathrine Seidelin, Katie Shilton, and Anissa Tanweer. 2020. Interrogating Data Science. Conference Companion Publication of the 2020 on Computer Supported Cooperative Work and Social Computing. Association for Computing Machinery, New York, NY, USA, 467473. DOI:<https://doi.org/10.1145/3406865.3418584>

EA13. Devansh Saxena, Erhardt Graeff, **Shion Guha**, EunJeong Cheon, Pedro Reynolds-Cullar, Dawn Walker, Christoph Becker, and Kenneth R. Fleischmann. 2020. Collective Organizing and Social Responsibility at CSCW. Conference Companion Publication of the 2020 on Computer Supported Cooperative Work and Social Computing. Association for Computing Machinery, New York, NY, USA, 503509. DOI:<https://doi.org/10.1145/3406865.3418593>

EA12. Marina Kogan, Aaron Halfaker, **Shion Guha**, Cecilia Aragon, Michael Muller, and Stuart Geiger. 2020. Mapping Out Human-Centered Data Science: Methods, Approaches, and Best Practices. In Companion of the 2020 ACM International Conference on Supporting Group Work (GROUP 20). Association for Computing Machinery, New York, NY, USA, 151156.

EA11. Devansh Saxena, Karla Badillo-Urquiola, Pamela Wisniewski, and **Shion Guha**. 2020. Child Welfare System: Interaction of Policy, Practice and Algorithms. In Companion of the 2020 ACM International Conference on Supporting Group Work (GROUP 20). Association for Computing Machinery, New York, NY, USA, 119122. DOI:<https://doi.org/10.1145/3323994.3369888>

EA10. MD Romael Haque, Katherine Weathington, and **Shion Guha**. 2019. Exploring the Impact of (Not) Changing Default Settings in Algorithmic Crime Mapping - A Case Study of Milwaukee, Wisconsin. In Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing (CSCW '19). ACM, New York, NY, USA, 206-210. DOI:<https://doi.org/10.1145/3311957.3359500>

EA9. Stevie Chancellor, **Shion Guha**, Jofish Kaye, Jen King, Niloufar Salehi, Sarita Schoenebeck, and Elizabeth Stowell. 2019. The Relationships between Data, Power, and Justice in CSCW Research. In Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing (CSCW '19). ACM, New York, NY, USA, 102-105. DOI:<https://doi.org/10.1145/3311957.3358609>

EA8. Fayika Farhat Nova, Pratyasha Saha, Md. Shafur Raihan Shafi, and **Shion Guha**. 2019.

Sharing Of Public Harassment Experiences on Social Media in Bangladesh. In Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing (CSCW '19). ACM, New York, NY, USA, 324-329. DOI: <https://doi.org/10.1145/3311957.3359465>

EA7. Casey Fiesler, Jed R. Brubaker, Andrea Forte, **Shion Guha**, Nora McDonald, and Michael Muller. 2019. Qualitative Methods for CSCW: Challenges and Opportunities. In Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing (CSCW '19). ACM, New York, NY, USA, 455-460. DOI: <https://doi.org/10.1145/3311957.3359428>

EA6. Fayika Farhat Nova, Md. Rashidujjaman Rifat, Pratyasha Saha, Syed Ishtiaque Ahmed, and **Shion Guha**. 2018. Silenced Voices: Understanding Sexual Harassment on Anonymous Social Media Among Bangladeshi People. In Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '18). ACM, New York, NY, USA, 209-212. (**Student ACM Travel Grant Award**)

EA5. Chat Wacharamanatham, Matthew Kay, Steve Haroz, **Shion Guha**, and Pierre Dragicevic. 2018. Special Interest Group on Transparent Statistics Guidelines. In Extended Abstracts of the 2018 CHI Conference on Human Factors in Computing Systems (CHI EA '18). ACM, New York, NY, USA, Paper SIG08, 4 pages.

EA4. Matthew Kay, Steve Haroz, **Shion Guha**, Pierre Dragicevic, and Chat Wacharamanatham. 2017. Moving Transparent Statistics Forward at CHI. In Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '17), 534-541.

EA3. Matthew Kay, Steve Haroz, **Shion Guha** and Pierre Dragicevic. Special Interest Group on Transparent Statistics in HCI. In Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '16). 1081-1084.

EA2. Syed Ishtiaque Ahmed, Maruf Zaber, and **Shion Guha**. 2013. Usage of the memory of mobile phones by illiterate people. In Proceedings of the 3rd ACM Symposium on Computing for Development (ACM DEV '13), Article 42 , 2 pages.

EA1. Syed Ishtiaque Ahmed and **Shion Guha**. 2012. Distance Matters: An Exploratory Analysis of the Linguistic Features of Flickr Photo Tag Metadata in Relation to Impression Management. In Proceedings of the 2nd ACM SIGMOD Workshop on Databases and Social Networks (SIGMOD DBSocial'12). 7-12. (**Student Travel Grant Award**)

PRESS COVERAGE

- Algorithmic Ethics and Biases
 - US Catholic (Featured Profile), February 2020
 - National Catholic Reporter, May 2019
 - Rocket News, May 2019
 - International Christian Herald, May 2019
 - Christian News Post, May 2019
 - America Magazine, May 2019
 - CSBN News, May 2019
 - Religion News Service, May 2019
 - Wisconsin Public Radio, June 2018
 - TMJ4-NBC, November 2017
- Online Safety and Social Media (based on **C17**)
 - WISN12-ABC, May 2018

- Gizmodo, April 2018
- WFTV9-ABC, April 2018
- Science Daily, April 2018
- Daily Dot, April 2018
- Times Now, April 2018
- Wisconsin Child Welfare System (based on **C22**)
 - Milwaukee Independent, May 2020
 - BizTimes Milwaukee, December 2018
- COVID-19 Research
 - Covid Conversations Podcast, November 2020
 - Parkview Press Release, November 2020
- Northwestern Mutual Data Science Institute
 - WUWM 89.7, Lake Effect, June 2018
 - Milwaukee Journal Sentinel, June 2018
- Can't Quit Facebook? (based on **J4**)
 - Scientific American, December 2017
 - NY Daily News, December 2015
 - NBC News, December 2015
 - IT News, December 2015
 - DNA India, December 2015
 - ABC WHAM Rochester, December 2015
 - Huffington Post, December 2015
 - Daily Mail UK, December 2015
- General:
 - Marquette in Milwaukee Podcast, Future of Data episode, December 2019
 - Milwaukee Magazine, January 2019
 - Illuminating Intellect Podcast, April 2018
 - Marquette University Arts and Sciences Magazine, April 2018
 - Marquette Wire, August 2016

INVITED TALKS AND
MEETINGS

- April 2020: Colorado School of Mines, Computer Science Colloquium.
- March 2020: Biocrossroads DataX Bioinnovation Challenge Talk
- February 2020: Marquette University, Electrical and Computer Engineering Colloquium.
- October 2019: James Madison University, CS Speaker Series.
- July 2019: University of Illinois Urbana-Champaign, Humanities Without Walls.
- November 2018: University of Illinois Chicago, Department of Computer Science Colloquium.
- May 2018: University of Toronto, Department of Computer Science Colloquium.
- April 2018: Marquette University, James Holstein Research Colloquium.
- March 2018: IUPUI, School of Informatics and Computing Colloquium.
- February 2018 New York University, Center for Data Science.
- February 2018: Northwestern University, Media, Technology and Society, Monday Lunch Series.
- January 2018: University of Wisconsin, Milwaukee, Information Policy and Pizza Talk Series.
- December 2017: NSF Workshop on Trustworthy Algorithms
- October 2017: Colgate University, Department of Computer Science, NASC Colloquium.
- August 2017: Nielsen Marketing Analytics.

- July 2017: Direct Supply, Visiting Researcher Talk.
- February 2016: University of San Francisco, Analytics program.
- May 2015: Human Computer Interaction Consortium (HCIC) (joint with Michael Muller).
- December 2012: Spatial Informatics Research Group, Indian Statistical Institute Bangalore.

TEACHING

University of Toronto

- INF2178H: Experimental Design for Data Science **W: 2021**

Marquette University

- INDS 4997: Data Science Capstone Course **Sp: 2021**
- COSC 5610/4610: Data Mining **Fa: 2019, 2020**
- COSC/MATH 3570: Introduction to Data Science **Fa: 2018 2019 Sp: 2017, 2018**
- CORE 1929: Methods of Inquiry (w/ Brittany Pladek and Yoon Choi) **Sp: 2019**
- COSC 5500/4500: Visual Analytics **Sp: 2018, 2019**
- COSC 5820/4820: Social and Ethical Implications of Data **Fa: 2018**
- COSC 5600/4600: Fundamentals of Artificial Intelligence **Fa: 2017**
- COSC 1000: Introduction to Computer Science **Fa: 2016, 2017, Sp: 2017**

Cornell University

- INFO 6940: Honest Statistics (w/ Malte Jung) **Spring 2015, 2016**
- INFO 3300: Data Driven Web Pages (w/ David Mimno and Lucja Kot) **Spring 2012, 2014**
- INFO 3200: New Media and Society (w/ Tarleton Gillespie) **Spring 2013**
- INFO 4302: Web Information Systems (w/ Carl Lagoze) **Fall 2011**
- INFO 1305: Computation and Culture in the Digital Age (w/ Daisy Fan) **Summer 2011**

SERVICE

- **NSF Panel:** 2018, 2019, 2021
- **Conference Program Committee/Organizing Committee:**
 - **CSCW:** Awards Chair'21-22, Sponsorship Chair'20, Meta Chair'19, Papers '17-
 - **CHI:** Papers'19-present, Late Breaking Work'17,'18
 - **FAccT:** Papers'20-present
 - **GROUP:** Poster Chair'20-22, Papers'19
 - **ICTD:** Notes'17, Papers'18,
 - **COMPASS:** Papers'21
 - **IC2S2:** Technical Program'17

- **Workshop/Panel/SIG etc. Organizer:**
 - **CSCW 2020:** Interrogating Data Science Workshop, Collective Organizing and Social Responsibility Workshop
 - **GROUP 2020:** Mapping Out Human-Centered Data Science Workshop
 - **CSCW 2019:** Qualitative Research Methods for CSCW Workshop, Data, Power and Justice Panel, CSCW Meta Panel
 - **Ethics of Big Data Symposium:** 2017, 2018, 2019
 - **CHI 2018:** Special Interest Group on Transparent Statistics Guidelines
 - **CHI 2017:** Workshop on Moving Transparent Statistics Forward
 - **CHI 2016:** Special Interest Group on Transparent Statistics
- **Conference Session Chair:**
 - **CSCW:** Algorithms and Governance (2019), Online Harrassment (2018)
 - **CHI:** Theories and Methods (2017)
 - **GROUP:** Mobile Computing Practices (2016), Non-Use (2020)
- **Journal Reviewing:** JASIST, New Media & Society, PlosOne, ToCHI, HCI Journal
- **Advisees:**
 - **Postdoc (Marquette):** Md. Kamrul Hassan'20 (Assistant Professor of Practice, Computer Science, Vanderbilt University)
 - **PhD Committee (Marquette):** Fayika Farhat Nova, Md. Romael Haque, Devansh Saxena
 - **MS (Marquette):** Katy Weathington (PhD, Information Science, CU Boulder)