

Shion Guha

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INTERESTS	human-centred data science, public interest technology, human-ai interaction, responsible ai	
APPOINTMENTS	University of Toronto , Toronto, ON, Canada <i>Assistant Professor, Faculty of Information</i> <i>Assistant Professor, Department of Computer Science (cross-appointment)</i> <i>Faculty Fellow, Schwartz Reisman Institute for Technology and Society</i> <i>Coordinator, Human Centred Data Science Concentration</i> <i>Faculty Affiliate, Data Sciences Institute</i>	2021 - present
	Parkview Health , Fort Wayne, IN, USA <i>Visiting Research Scientist, Mirro Center for Research and Innovation</i>	2021 - present
	Marquette University , Milwaukee, WI, USA <i>Assistant Professor, Department of Computer Science</i> <i>Director, Data Science Graduate Program</i> <i>Faculty Affiliate, Northwestern Mutual Data Science Institute</i>	2016 - 2021
	IBM Research , Cambridge, MA, USA <i>Research Intern, Data Science User Experience Group</i>	2015 - 2016
DISTINCTIONS	Schwartz Reisman Institute Faculty Fellow 2023-25 ACM CHI Best Paper (top 1%) Award: 2023 Connaught New Researcher Award 2022 ACM CSCW Best Paper Honorable Mention (top 5%) Award: 2021 ACM CSCW Impact Recognition: 2021 ACM CHI Best Paper Honorable Mention (top 5%) Award: 2020 US Catholic Magazine: Featured Profile on AI and Ethics, Vol. 85 No. 2, February 2020. Way-Klingler Early Career Award 2019 Recognition for exceptional reviewing: CHI (2016, 2017, 2019, 2020, 2022), CSCW (2016, 2017) ACM ICTD Best Paper (top 5%) Award: 2017 ACM SIGMOD: Student Travel Award 2012. 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. Research recognition by UN World Bank Water and Sanitation Program, 2009. Indian Statistical Institute: ranked first in All India entrance examination, 2008. Jadavpur University: graduated with " First Class " honors, 2008.	

FUNDING

CIFAR AI For Health Solutions Network grant, \$900,000 (Co-PI)
Data Sciences Institute Emerging Research grant, \$100,000 (Co-PI)
Connaught Community Partnership Research Program, \$100,000 (Co-PI)
Schwartz Reisman Institute Faculty Fellowship, \$25,000 (PI)
Data Sciences Institute Catalyst Grant, \$100,000 (Co-PI)
Connaught New Researcher Award 2022, \$18,500 (PI)
NSERC Discovery Early Career Researcher Award, #04570, \$157,500, (2022-2027), (PI)
Parkview Foundation. Data-driven Explorations of COVID Long-Haul, \$100,000. (2021-22) (Co-PI)
National Science Foundation Future of Work #2026607, \$150,000 (2021-2022) (PI)
Parkview Health Research Award, \$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 Research Experiences for UG #1950826, \$404,683 (2020-2023) (SP)
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 Research Award, \$10,356, (2017) (PI)

EDUCATION

Cornell University, Ithaca, New York USA

Ph.D, Information Science, Statistics, 2016

M.S, Information Science, 2014

Committee: Steve Wicker (chair), Lee Humphreys, John Bunge

Indian Statistical Institute, Bangalore, Karnataka India

M.S, Information Science, 2010

Thesis Advisor: BS Daya Sagar

First Class with Distinction Award, Ranked first in Class, Best MS Thesis

Jadavpur University, Kolkata, West Bengal India

B.B.A, Economics, Finance, 2008

First Class Award

BOOKS

Cecilia Aragon, **Shion Guha**, Marina Kogan, Michael Muller and Gina Neff. 2022. Human-Centered Data Science: An Introduction. (**MIT Press**; Publication Date: March 1, 2022) (Amazon Best Seller in Data Mining Books)

JOURNALS

J23. Brandon T. McDaniel, Victor Cornet, Jeanne Carroll, Lambros Chrones, Joseph Chudzik, Jeanette Cochran, **Shion Guha**, Debra F. Lawrence, Maggie McCue, Sara Sarkey, Betty Lorenz & Jay Fawver. BMC Psychiatry 23, 938 (2023). <https://doi.org/10.1186/s12888-023-05439-8> (Impact Factor: 4.9)

J22. Mohammad Hossein Jarrahi, Ali Memariani, and **Shion Guha**. 2023. The Principles of Data-Centric AI. Commun. ACM 66, 8 (August 2023), 8492. <https://doi.org/10.1145/3571724> (**Impact**

Factor: 22.7)

J21. Devansh Saxena and **Shion Guha**. 2023. Algorithmic Harms in Child Welfare: Uncertainties in Practice, Organization, and Street-level Decision-Making. In ACM Journal of Responsible Computing. ACM, New York, NY, USA, 30 pages.

J20. Jessica A Pater, Amanda Coupe, Fayika Farhat Nova, Rachel Pfafman, Jeanne Carroll, Abigail Brouwer, Camden Bohn, Jason Li, Noah Todd, Fen Lei Chang, and **Shion Guha**. 2023. Social Media is not a Health Proxy: Differences Between Social Media and Electronic Health Record Reports of Post-COVID Symptoms. Proc. ACM Hum.-Comput. Interact. 7, CSCW1, Article 148 (April 2023), 25 pages. <https://doi.org/10.1145/3579624>

J19. Md Kamrul Hasan, Devansh Saxena, Yakin Rubaiat, Sheikh Iqbal Ahamed & **Shion Guha** (2023) Design Recommendations towards Developing a Smartphone-Based Point-of-Care Tool for Rural Bangladeshi Users, International Journal of Human-Computer Interaction, DOI: 10.1080/10447318.2023.21 (Impact Factor: 4.92)

J18. Fayika Farhat Nova, Rachel Pfafman, Kelley Kardys, Connie Kerrigan, **Shion Guha**, and Jessica Pater. 2022. Uncovering Adverse Childhood Experiences (ACEs) from Clinical Narratives within the Electronic Health Record. Proc. ACM Hum.-Comput. Interact. 6, CSCW2, Article 547 (November 2022), 29 pages. <https://doi.org/10.1145/3555605>

J17. Kevin Clancy, Joseph Chudzik, Aleksandra J. Snowden, **Shion Guha**, Reconciling data-driven crime analysis with human-centered algorithms, Cities, Volume 124, 2022, 103604, ISSN 0264-2751, <https://doi.org/10.1016/j.cities.2022.103604>. (Impact Factor: 5.8)

J16. Fayika Farhat Nova, Amanda Coupe, Elizabeth Mynatt, **Shion Guha**, and Jessica Pater, (2022, January). Cultivating the Community: Inferring influence within Eating Disorder Networks on Twitter. Proceedings of the ACM on Human-Computer Interaction, Volume 6, Issue GROUP, January 2022 Article No.: 7, pp 133, <https://doi.org/10.1145/3492826>.

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. Proc. ACM Hum.-Comput. Interact. 5, CSCW2, Article 348 (October 2021), 42 pages. <https://doi.org/10.1145/3476089> (**Best Paper Honorable Mention, top 5% and Impact Recognition**)

J14. Patrick Skeba, Devansh Saxena, **Shion Guha** and Eric P. S. Baumer. 2021. Who has a Choice?: Survey-Based Predictors of Volitionality in Facebook Use and Non-use. Proc. ACM Hum.-Comput. Interact. 5, GROUP, Article 223 (July 2021), 25 pages. DOI:<https://doi.org/10.1145/3463935>

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 JMIR Mhealth Uhealth 2021;9(4):e16806 doi: 10.2196/16806

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**)

^{1 2} **C30.** Dipto Das, **Shion Guha**, and Bryan Semaan. 2023. Toward Cultural Bias Evaluation

¹Like many other branches of Computer Science, conferences are usually more prestigious and competitive venues than the journals in HCI and related subfields. These conferences are double-blinded peer-reviewed, archived, and well-referenced. Top conferences in HCI are widely known for being extremely selective.

²Students and junior researchers are usually put as the first author of a publication.

Datasets: The Case of Bengali Gender, Religious, and National Identity. In Proceedings of the First Workshop on Cross-Cultural Considerations in NLP (C3NLP), pages 6883, Dubrovnik, Croatia. Association for Computational Linguistics.

C29. Devansh Saxena, Erina Seh-Young Moon, Aryan Chaurasia, Yixin Guan, and **Shion Guha**. 2023. Rethinking "Risk" in Algorithmic Systems Through A Computational Narrative Analysis of Casenotes in Child-Welfare. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23). Association for Computing Machinery, New York, NY, USA, Article 873, 119. <https://doi.org/10.1145/3544548.3581308> (**Best Paper Award, top 1%**)

C28. Kelly McConvey, **Shion Guha**, and Anastasia Kuzminykh. 2023. A Human-Centered Review of Algorithms in Decision-Making in Higher Education. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23). Association for Computing Machinery, New York, NY, USA, Article 223, 115. <https://doi.org/10.1145/3544548.3580658>

C27. Pater, J.A., **Guha, S.**, Pfafman, R., Kerrigan, C., Toscos, T. (2023). Spatio-Temporal Predictive Modeling for Placement of Substance Use Disorder Treatment Facilities in the Midwestern U.S. In: Tsanas, A., Triantafyllidis, A. (eds) Pervasive Computing Technologies for Healthcare. PH 2022. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 488. Springer, Cham. https://doi.org/10.1007/978-3-031-34586-9_28

C25. Fayika Farhat Nova, Pratyasha Saha, **Shion Guha**. Understanding Online Harassment and Safety Concerns of Marginalized LGBTQ+ Populations on Social Media in Bangladesh. In Proceedings of the 2022 International Conference on Information and Communication Technologies and Development (accepted)

C24. Devansh Saxena, Erina Moon, Dahlia Shehata, **Shion Guha**. Unpacking Invisible Work Practices, Constraints, and Latent Power Relationships in Child Welfare through Casenote Analysis. In CHI Conference on Human Factors in Computing Systems (CHI '22). Association for Computing Machinery, New York, NY, USA, Article 120, 122. <https://doi.org/10.1145/3491102.3517742>

C23. Lillian Campbell, Amrita George and **Shion Guha**, "Practitioner Attitudes towards an Early Warning System : From Professional Distraction to Relational Support," 2021 IEEE International Professional Communication Conference (ProComm), 2021, pp. 123-124, doi: 10.1109/ProComm52174.2021.00028.

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).

MEDIA ARTICLES
(EDITOR
REVIEWED)

M2. Devansh Saxena and Shion Guha. Failing Investments in AI: Algorithmic Harms to Social Work Practice and Child-Welfare Agencies. Data & Society. Social Life of Algorithmic Harms. (Upcoming)

M1. Devansh Saxena and Shion Guha. Unpacking Invisible Work Practices, Constraints, and Latent Power Relationships in Child Welfare through Casenote Analysis Montreal AI Ethics Institute. AI Ethics Brief 109 (October 2022). Link: <https://bit.ly/3hoH6UW>

EXTENDED
ABSTRACTS
(LIGHTLY
REVIEWED)

P12. Victoria Chui, Jessica Pater, Tammy Toscos, and **Shion Guha**. 2023. Applying Human-Centered Data Science to Healthcare: Hyperlocal Modeling of COVID-19 Hospitalizations. In Companion Proceedings of the 2023 ACM International Conference on Supporting Group Work (GROUP '23). Association for Computing Machinery, New York, NY, USA, 2426. DOI: 10.1145/3565967.3570979

P11. Devansh Saxena, Charles Repaci, Melanie D Sage, **Shion Guha**. 2022. How to Train

a (Bad) Algorithmic Caseworker: A Quantitative Deconstruction of Risk Assessments in Child Welfare. In CHI Conference on Human Factors in Computing Systems Extended Abstracts (CHI EA '22). Association for Computing Machinery, New York, NY, USA, Article 407, 17. DOI: 10.1145/3491101.3519771

P10. Lillian Campbell, Amrita George, and **Shion Guha**. 2021. Communication and Algorithmic Decision Making in a Virtual Healthcare Context: Extended Abstract. In The 39th ACM International Conference on Design of Communication (SIGDOC '21). Association for Computing Machinery, New York, NY, USA, 367369. <https://doi.org/10.1145/3472714.3473669>

P9. 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>

P8. 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>

P7. 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>

P6. 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>

P5. 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>

P4. Fayika Farhat Nova, Pratyasha Saha, Md. Shafiur 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>

P3. 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**)

P2. 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.

P1. 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**)

WORKSHOPS

W9. Logan Stapleton, Devansh Saxena, Anna Kawakami, Tonya Nguyen, Asbjørn Ammitzbløt, Motahhare Eslami, Naja Holten Møller, Min Kyung Lee, **Shion Guha**, Kenneth Holstein, and Haiyi Zhu. 2022. Who Has an Interest in Public Interest Technology?: Critical Questions for Working with Local Governments & Impacted Communities. In Companion Publication of the 2022 Conference on Computer Supported Cooperative Work and Social Computing (CSCW'22 Companion). Association for Computing Machinery, New York, NY, USA, 282286. <https://doi.org/10.1145/3500868.3560484>

W8. Michael Muller, Plamen Agelov, **Shion Guha**, Marina Kogan, Gina Neff, Nuria Oliver, Manuel Gomez Rodriguez, and Adrian Weller. "NeurIPS 2022 Workshop: Human Centered AI."

W7. Anissa Tanweer, Cecilia R Aragon, Michael Muller, **Shion Guha**, Samir Passi, Gina Neff, and Marina Kogan. 2022. Interrogating Human-centered Data Science: Taking Stock of Opportunities and Limitations. In Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22). Association for Computing Machinery, New York, NY, USA, Article 99, 16. <https://doi.org/10.1145/3491101.3503740>

W6. Michael Muller, Plamen Agelov, **Shion Guha**, Marina Kogan, Gina Neff, Nuria Oliver, Manuel Gomez Rodriguez, and Adrian Weller. "NeurIPS 2021 Workshop: Human Centered AI."

W5. 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>

W4. 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>

W3. 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.

W2. 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>

W1. Matthew Kay, Steve Haroz, **Shion Guha**, Pierre Dragicevic, and Chat Wacharamanotham. 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.

PANELS

PA3. Michael Muller, Lora Aroyo, Melanie Feinberg, Helena Mentis, Samir Passi, **Shion Guha**, and Heloisa Candello. Designing Data in Data Science. FAccT Craft Panel 2022.

PA2. Douglas Zytco, Pamela J. Wisniewski, **Shion Guha**, Eric P. S. Baumer, and Min Kyung

Lee. 2022. Participatory Design of AI Systems: Opportunities and Challenges Across Diverse Users, Relationships, and Application Domains. In Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22). Association for Computing Machinery, New York, NY, USA, Article 154, 14. <https://doi.org/10.1145/3491101.3516506>

PA1. 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>

MEETINGS

M2. 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.

M1. 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.

PRESS

- Human Centred Data Science:
 - Radical AI Podcast, July 2022
 - Newsweek, March 2022
 - University of Toronto News, February 2022
 - 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

- November 2023: University of Toronto, Causal Inference and Data Science for Improved Policy
- October 2023: University of Washington, Responsibility in AI Ethics and Experiences Seminar
- August 2023: Joint Statistical Meetings, Ethics and Trust in Statistical Learning
- February 2023: Pomona College, Computer Science Colloquium
- November 2022: Univ.of Cambridge, Minderoo Centre, Responsible Data Science Seminar
- June 2022: Nokia Bell Labs Responsible AI Seminar
- March 2022: Univ.of Toronto, DLSPH, Framework for Responsible Machine Learning Panel
- March 2022: University of Colorado Boulder, Information Science Seminar
- February 2022: University of Cambridge, Minderoo Centre for Technology and Democracy.
- November 2021: National Center for State Courts Research Talk
- Sep 2021: Massachusetts Department of Children, Youth and Families, Technical Expertise
- 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

- INF3103H: Methods for Algorithmic FATE Research **F: 2023**
- INF2178H: Experimental Design for Data Science **W: 2021, 2022, 2023**
- INF1340H: Programming for Data Science **F: 2021, 2022**
- INF2209H: Human-Centred Topic Models **F: 2021, 2022**

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**

ADVISING

- University of Toronto
 - PhD Dissertations
 - Erina Moon
 - Priyanka Verma
 - Ramaravind Mothilal (co-supervised with Ishtiaque Ahmed)
 - Kelly McConvey
 - Victoria Chui
 - Masters Thesis

- Erina Moon (Next: PhD, University of Toronto)
- Cynthia Yip
- Victoria Chui (Next: PhD, University of Toronto)
- Juliette Zaccour (Next: PhD, University of Oxford)
- Christelle Tessono
- Masters Committee
 - Carolyn Quinlan (AI specialization in Health Services Research)
- Marquette University
 - Postdoc
 - Md. Kamrul Hasan (Next: Assistant Professor of Practice, CS, Vanderbilt University)
 - PhD Dissertations
 - Devansh Saxena (Spring 2023, Next: Presidential Postdoc at Carnegie Mellon and Assistant Professor at University of Wisconsin, Madison)
 - Fayika Farhat Nova (Fall 2022, Next: Research Scientist at Parkview Research)
 - Masters Thesis
 - Katy Weathington (Next: PhD, University of Colorado Boulder)
 - Undergraduate Research
 - Joe Chudzik (Next: MS, University of Chicago)
 - Dominique Green (Next: MS, Depaul University)
 - Marielle Billig (Next: Data Scientist, Blue Cross Blue Shield)
 - Griffin Berstein (Next: PhD, CS, Cornell University)

SERVICE

- Service to the Profession
 - Conference Organization and Program Committee
 - Papers Chair
 - * ACM CSCW 2023
 - Organizing Committee Roles
 - * ACM GROUP Poster Chair 2020-23
 - * ACM CSCW Awards Chair 2021-22
 - * ACM CSCW Sponsorship Chair 2020
 - * ACM CSCW Meta Chair 2019
 - Associate Chair
 - * ACM CHI Papers 2019-present
 - * ACM CSCW Papers 2017-present
 - * ACM FAccT Papers 2020-21
 - * ACM COMPASS Papers 2021
 - * ACM GROUP Papers 2019-20
 - * ICTD Papers 2017-20
 - * ACM CHI Late Breaking Work 2017-18
 - NSERC Grant Review: 2023
 - NSF Grant Review Panel: 2018-2022
 - Journal Reviewing: JASIST, New Media & Society, PlosOne, ToCHI, HCI Journal