■ momin.malik@gmail.com

Education

- 2018 PHD in Societal Computing. School of Computer Science, Carnegie Mellon University.
 - Dissertation: Bias and beyond in digital trace data. Committee: Jürgen Pfeffer (Institute for Software Research and Technical University of Munich) and Anind K. Dey (Human-Computer Interaction Institute and University of Washington) [coadvisors], Cosma R. Shalizi (Department of Statistics & Data Science), and David Lazer (Northeastern University).
- 2018 MS in Machine Learning. School of Computer Science, Carnegie Mellon University.
 - Thesis: Detecting friendship with smartphone co-location data. Committee: Anind K. Dey (Human-Computer Interaction Institute and University of Washington), Afsaneh Doryah (Human-Computer Interaction Institute), and Nynke M. D. Niezink (Department of Statistics & Data Science).
- 2016 MS in Computation, Organizations and Society. School of Computer Science, Carnegie Mellon University.
- 2012 MSc with distinction in Social Science of the Internet. Oxford Internet Institute, University of Oxford.
 - Thesis: Networks of collaboration and field emergence in 'Internet Studies'. Advisor: Eric T. Meyer.
- 2009 AB cum laude in History and Science. Harvard University.
 - Thesis: Rediscovering Ramanujan. Advisor: Lukas Rieppel.

Positions

- 2021 Senior Data Scientist AI Ethics, Center for Digital Health, Mayo Clinic. Rochester, MN [remote].
- 2021 Part-Time Lecturer, School of Social Policy & Practice, University of Pennsylvania. Philadelphia, PA.
- 2021 Fellow, Institute in Critical Quantitative, Computational, & Mixed Methodologies. Baltimore, MD.
- 2021- Consultant, Avant-garde Health. Boston, MA.
- 2020-2021 Director of Data Science, Avant-garde Health. Boston, MA. November 2020-November 2021.
 - 2020 Data Analyst / Scientist, MoveOn [remote]. August-November.
 - 2021 Affiliate, Berkman Klein Center for Internet & Society at Harvard University. Cambridge, MA. February-August.
- 2018-2020 Data Science Postdoctoral Fellow, Berkman Klein Center for Internet & Society at Harvard University. Cambridge, MA.
 - 2017 Summer Fellow, Data Science for Social Good Europe. Lisbon, Portugal. June-August.
- 2016-2018 Graduate research assistant, Ubicomp Lab, Human-Computer Interaction Institute, Carnegie Mellon University. Pittsburgh, PA.
- 2013–2016 Graduate research assistant, Pfeffer Lab, Institute for Software Research, Carnegie Mellon University. Pittsburgh, PA.
- 2011-2012 Research assistant, Big Data: A Revolution That Will Transform How We Live, Work, and Think. Oxford, UK.
- 2009–2011 & Research assistant, Berkman Center for Internet & Society at Harvard University. Cambridge, MA. 2012–2013

Publications

- 2021 Maya Malik and Momin M. Malik. 2021. Critical technical awakenings. Journal of Social Computing 4 (4): 365–384. doi:10.23919/JSC.2021.0035
 - Nicole C. Nelson, Kelsey Ichikawa, Julie Chung, and **Momin M. Malik**. 2021. Psychology exceptionalism and the multiple discovery of the replication crisis. *Review of General Psychology*. doi:10.1177/10892680211046508
 - Nicole C. Nelson, Kelsey Ichikawa, Julie Chung, and **Momin M. Malik**. 2021. Mapping the discursive dimensions of the reproducibility crisis: A mixed methods analysis. *PLOS ONE* 16 (7): e0254090. doi:10.1371/journal.pone.0254090
 - Hal Roberts, Rahul Bhargava, Linas Valiukas, Dennis Jen, **Momin M. Malik**, Cindy Bishop, Emily Ndulue, Aashka Dave, Justin Clark, Bruce Etling, Rob Faris, Anushka Shah, Jasmin Rubinovitz, Alexis Hope, Catherine D'Ignazio, Fernando Bermejo, Yochai Benkler, and Ethan Zuckerman. 2021. Media Cloud: Massive open source collection of global news on the open web. In *Proceedings of the Fifteenth International AAAI Conference on Web and Social Media* (ICWSM-2021), 1046–1052. https://ojs.aaai.org/index.php/ICWSM/article/view/18127
 - Eugene T. Richardson*, **Momin M. Malik***, William A. Darity, Jr., A. Kirsten Mullen, Michelle E. Morse, Maya Malik, Aletha Maybank, Mary T. Bassett, Paul E. Farmer, Lee Worden, and James Holland Jones. 2021. Reparations for Black American descendants of persons enslaved in the U.S. and their potential impact on SARS-CoV-2 transmission. *Social Science & Medicine* 276: 113741. doi:10.1016/j.socscimed.2021.113741 *Co-first authors.

- Momin M. Malik, Afsaneh Doryab, Mike A. Merrill, Jürgen Pfeffer, and Anind K. Dey. 2021 (in submission). Can co-location data detect friendship? It depends how you model it. arXiv:2008.02919
- 2020 Momin M. Malik. 2020 (in submission). A hierarchy of limitations in machine learning. arXiv:2002.05193
- 2019 Kar-Hai Chu, Jason Colditz, Momin M. Malik, Tabitha Yates, and Brian Primack. 2019. Identifying key target audiences for public health campaigns: Leveraging machine learning in the case of hookah tobacco smoking. Journal of Medical Internet Research 21 (7): e12443. doi:10.2196/12443
- 2017 Jürgen Pfeffer and Momin M. Malik. 2017. Simulating the dynamics of socio-economic systems. In Networked governance: New research perspectives, edited by Betina Hollstein, Wenzel Matiaske, and Kai-Uwe Schnapp, 143–161. Cham, Switzerland: Springer. doi:10.1007/978-3-319-50386-8_9
- 2016 Momin M. Malik and Jürgen Pfeffer. 2016. Identifying platform effects in social media data. In Proceedings of the Tenth International AAAI Conference on Web and Social Media (ICWSM-2016), 241–249. https://www.aaai.org/ocs/index.php/ICWSM/ICWSM16/paper/view/13163
 - Momin M. Malik and Jürgen Pfeffer. 2016. A macroscopic analysis of news content on Twitter. *Digital Journalism* 4 (8): 955–979. doi:10.1080/21670811.2015.1133249
 - Gabriel Ferreira, **Momin Malik**, Christian Kästner, Jürgen Pfeffer, and Sven Apel. 2016. Do #ifdefs influence the occurrence of vulnerabilities? An empirical study of the Linux Kernel. In *Proceedings of the 20th International Systems and Software Product Line Conference* (SPLC '16), 65–73. **Nominated for Best Paper Award.** doi:10.1145/2808797.2808828
 - Kathleen M. Carley, **Momin Malik**, Peter M. Landwehr, Jürgen Pfeffer, and Michael Kowalchuck. 2016. Crowd sourcing disaster management: The complex nature of Twitter usage in Padang Indonesia. *Safety Science* 90: 48–61. doi:10.1145/2934466.2934467
- 2015 Hemank Lamba*, **Momin M. Malik***, and Jürgen Pfeffer. 2015. A tempest in a teacup? Analyzing firestorms on Twitter. In *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM 2015), 17–24. **Best Student Paper Award**. doi:10.1145/2808797.2808828 *Co-first authors.
 - Momin M. Malik, Hemank Lamba, Constantine Nakos, and Jürgen Pfeffer. 2015. Population bias in geotagged tweets. In *Papers from the 2015 ICWSM Workshop on Standards and Practices in Large-Scale Social Media Research* (ICWSM-2015 SPSM), 18–27. https://www.aaai.org/ocs/index.php/ICWSM/ICWSM15/paper/view/10662

Teaching and Advising

- 2022 Instructor, MSSP 897: Applied Linear Modeling, Spring 2022 (2 sections). Master of Science in Social Policy, School of Social Policy & Practice, University of Pennsylvania. Philadelphia, PA.
- 2021 Instructor, MSSP 897: Applied Linear Modeling, Fall 2021. Master of Science in Social Policy, School of Social Policy & Practice, University of Pennsylvania. Philadelphia, PA.
 - Instructor, MSSP 710: Democratizing data? Critical data studies in algorithmic governance, Fall 2021. Master of Science in Social Policy, School of Social Policy & Practice, University of Pennsylvania. Philadelphia, PA.
 - Mentor, Institute in Critical Quantitative, Computational, & Mixed Methodologies.
 - "Computational Approaches III: Applications." 1.5-hour tutorial and demo on machine learning for social science. Institute in Critical Quantitative, Computational, & Mixed Methodologies. https://mominmalik.com/icqcm2021b.pdf
- 2020 Mentor, Berkman Klein 2020 Summer Institute. Berkman Klein Center for Internet & Society at Harvard University.
- 2019 "A critical introduction to machine learning." 1-hour workshop at the 2019 ACM Richard Tapia Celebration of Diversity in Computing Conference (Tapia 2019). Marriott Marquis San Diego Marina, San Diego, CA, September 19, 2019. https://mominmalik.com/tapia2019.pdf
 - "Everything you ever wanted to know about network statistics but were afraid to ask." 3-hour tutorial at the XXXIX Sunbelt Social Networks Conference of the International Network for Social Network Analysis (Sunbelt 2019). Montreal, Quebec, June 18, 2019. https://mominmalik.com/sunbelt2019.pdf
- 2014–18 Future Faculty Program (completed). Eberly Center for Teaching Excellence and Educational Innovation, Carnegie Mellon University. Pittsburgh, PA.
 - 2016 Teaching Assistant, 08-200/08-630/19-211: Ethics and Policy Issues in Computing, Spring 2016 (Instructor: Dr. Jim Herbsleb).
 Institute for Software Research and Computer Science Department, School of Computer Science, Carnegie Mellon University.
 Pittsburgh, PA.
 - 2015 Teaching Assistant, 08-302/08-622: Introduction to Network Science, Fall 2015 (Instructor: Dr. Jürgen Pfeffer). Institute for Software Research, School of Computer Science, Carnegie Mellon University. Pittsburgh, PA.

Honors and Awards

- 2016 Best Paper Award Nomination for "Do #ifdefs influence the occurrence of vulnerabilities? An empirical study of the Linux Kernel" at the 20th International Systems and Software Product Line Conference (SPLC '16). Beijing, China, September 19–23, 2016.
- 2015 Best Student Paper Award for "A tempest in a teacup? Analyzing firestorms on Twitter" at the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2015). Paris, France, August 25–28, 2015.
- 2013 ARCS Foundation Award. Carnegie Mellon University.
- 2012 Distinction, MSc. University of Oxford.
- 2009 Cum laude, AB. Harvard University.

Presentations

- 2022 Panelist, "Incorporating ethical thinking into research & innovation through education, planning, conduct, and communication." Chaired by Michael Hawes, with session organizers Jing Cao and Stephanie Shipp, and co-panelists James Giordano, Jeri Mulrow, Katie Shay, and Nathan Colaner. Sponsored by Committee on Professional Ethics (primary), Statistics Without Borders, Committee on Scientific Freedom and Human Rights, and Committee on Funded Research. JSM 2022 Invited Session for ASA COPE, Joint Statistical Meeting 2022. August 6–11, 2022.
 - TBD (invited session). Max Planck Institute for Demographic Research Seminar Series, Rostock, Germany, April 26, 2022.
 - Panelist, "Predictive justice." With co-panelist Safiya Noble. AERA Presidential Session, "Expansive futures for disability intersectional learning research: Braiding culture, history, equity, and enabling technologies." 2022 American Educational Research Association Annual Meeting, San Diego, CA. Saturday, April 23, 2022.
 - "The technical perspective on ethics: An overview and critique" (invited talk). Center for Digital Ethics and Policy 2022 Annual International Symposium: Digital Ethics for a Sustainable Society. School of Communication, Loyola University Chicago. [held online], March 29, 2022. https://mominmalik.com/cdep2022.pdf
 - "Critical approaches to machine learning" (invited session). ICQCM Summit, Baltimore, MD, Sunday, March 21, 2022. https://mominmalik.com/icqcm2022.pdf
 - Panelist, "AI, race, and algorithmic justice in research." Moderated by Ezekiel Dixon-Román, with co-panelists Meredith Broussard and Kadija Ferryman. ICQCM Summit, Baltimore, MD, Saturday, March 22, 2022.
- Panelist, "Approaches to managing trustworthy AI." Moderated by Maggie Little, with co-panelists Ashley Casovan, Jacob Metcalf, Rayid Ghani, and Ram Kumar. Panel 5 at *Kicking off NIST AI Risk Management Framework* workshop. National Institutes of Standards and Technology, U.S. Department of Commerce. [held online], October 20, 2021.
 - "Machine learning in the hierarchy of methodological limitations." TILT Seminar Series 2021, Tilburg Institute for Law, Technology, and Society, Tilburg University. Tilburg, Netherlands [held online], September 21, 2021. https://mominmalik.com/tilt2021.pdf
 - "Network models and graphical models: A survey." Session S65: Machine Learning, Networks 2021. [held online], July 6, 2021. https://mominmalik.com/networks2021.pdf
 - "Media Cloud: Massive open source collection of global news on the open Web." Fifteenth International AAAI Conference on Web and Social Media (ICWSM-2021). [held online], June 10, 2021.
 - "Defining critical quantitative and computational methodologies" (invited session). Moderated by Ezekiel Dixon-Román. William T. Grant AQC SCHOLARS Virtual Seminar Series, Institute in Critical Quantitative, Computational, & Mixed Methodologies. Baltimore, MD [held online], May 27, 2021. https://mominmalik.com/icqcm2021.pdf
 - "Critical theory and quantification" (invited session). With Ezekiel Dixon-Román and Maya Malik. Seminar Virtual Event, Histories of Artificial Intelligence: A Genealogy of Power. Mellon Sawyer Seminar series, University of Cambridge. Cambridge, UK [held online], January 20, 2021. https://mominmalik.com/hoai2021.pdf
- 2020 "A hierarchy of limitations in machine learning" (invited talk). Math and Democracy Seminar Series. Center for Data Science, New York University. New York, NY, October 5, 2020. [delivered online]. https://mominmalik.com/nyucds2020.pdf
 - "A hierarchy of limitations in machine learning: Data biases and the social sciences" (invited webinar). Webinar Series: Data Cultures in Higher Education. Faculty of Psychology and Education, Universitat Oberta de Catalunya (Open University of Catalonia). Barcelona, Spain [delivered online], September 29, 2020. https://mominmalik.com/uoc2020.pdf With Spanish subtitles, "Una jerarquía de limitaciones en el Machine Learning. Sesgos en su uso en investigación social." https://youtu.be/SSeZIETRb04.
 - "Machine learning won't save us: Dependencies bias cross-validation estimates of model performance." 2020 Virtual Sunbelt Conference of the International Network for Social Network Analysis. July 17, 2020. https://mominmalik.com/sunbelt2020.pdf
 - "Anti-racism and COVID-19" (invited talk). With Eugene T. Richardson, William A. Darity, Jr., James Holland Jones, A. Kirsten Mullen, and Paul E. Farmer. Global Health and Social Medicine Seminar Series. Department of Global Health & Social Medicine, Harvard Medical School. Cambridge, MA [delivered online], June 3, 2020.

- "Media Cloud and media ecosystem research." Social Science One Researcher Onboarding Training Session lightning talk, May 27, 2020.
- "Antiracism and COVID-19" (invited talk). With Eugene T. Richardson. Antiracism & Technology Design Seminar. Space Enabled research group, MIT Media Lab. Cambridge, MA [delivered online], May 13, 2020.
- "Critical technical practice revisited: Towards `analytic actors' in data science" (invited talk). STS Circle. Program on Science, Technology & Society, Harvard Kennedy School. Cambridge, MA, March 5, 2020. https://mominmalik.com/stscircle2020.pdf
- "Revisiting 'all models are wrong': Addressing limitations in big data, machine learning, and computational social science" (invited talk). Wednesdays@NICO Seminar Speaker Series. Northwestern Institute for Complex Systems, Northwestern University. Evanston, IL, February 5, 2020. https://mominmalik.com/nico2020.pdf; Video at https://youtu.be/HAXFPw9Dj-g
- "How STS can improve data science" (invited talk). STS Lunch Seminar Series. Science, Technology, and Society, Tufts University. Medford, MA, January 27, 2020. https://mominmalik.com/tufts2020.pdf
- 2019 "A hierarchy of limitations in machine learning" (invited talk). Microsoft Research New England. Cambridge, MA, December 3, 2019. https://mominmalik.com/msrne2019.pdf
 - "Correlates of oppression: Machine learning and society." Guest lecture in CMS.701/CMS.901: Current Debates in Media, Fall 2019 (Instructor: Dr. Sasha Costanza-Chock). Comparative Media Studies, MIT. Cambridge, MA, October 30, 2019. https://mominmalik.com/cms2019.pdf
 - "Statistics and machine learning: Foundations, limitations, and ethics" (invited talk). Mathematics & Statistics Colloquium Fall 2019. Colby College Department of Mathematics and Statistics, Colby College. Waterville, ME, October 7, 2019. https://mominmalik.com/colby2019.pdf
 - "Three open problems for historians of AI." Towards a History of Artificial Intelligence. Columbia University. New York, NY, May 24, 2019. https://mominmalik.com/three_problems.pdf; Video at https://youtu.be/vfrjfVEoMl4
 - "Interpretability is a red herring: Grappling with 'prediction policy problems.' 17th Annual Information Ethics Roundtable: Justice and Fairness in Data Use and Machine Learning. Northeastern University. Boston, MA, April 5, 2019. https://mominmalik.com/ier2019.pdf
 - "What can AI do with copyrighted data?" (invited talk). Bracing for Impact—The Artificial Intelligence Challenge: A Roadmap for AI Governance in Canada. Part II: Data, Policy & Innovation. IP Osgoode, Osgoode Hall Law School, York University. Toronto Reference Library, Toronto, Canada, March 21, 2019.
 - "The ethical implications of technical limitations" (invited talk). Fairness, Accountability & Transparency/Asia. Digital Asia Hub and ACM/FAT*. Shun Hing College, University of Hong Kong, Hong Kong, January 12, 2019.
 - "Machine learning for social scientists." Fairness, Accountability & Transparency/Asia. Digital Asia Hub and ACM/FAT*. Shun Hing College, University of Hong Kong, Hong Kong, January 11, 2019. https://mominmalik.com/ml_socsci.pdf
- 2018 "AI' is a lie: Getting to the real issues." AGTech Forum. Berkman Klein Center for Internet & Society at Harvard University. Cambridge, MA, December 13, 2018. https://mominmalik.com/agtech2018.pdf
 - "Theorizing sensors for social network research" (invited talk). Computational Social Science Institute, UMass Amherst. Amherst, MA, December 7, 2018. https://mominmalik.com/cssi.pdf
 - "What everyone needs to know about 'prediction' in machine learning." Leverhulme Centre for the Future of Intelligence, University of Cambridge, Cambridge, UK, December 3, 2018. https://mominmalik.com/cfi.pdf
 - "Anxiety, crisis, and a computational future for journalism." Philip Merrill College of Journalism / College of Information Studies, University of Maryland. College Park, MD, November 27, 2018.
 - "Networks, yeah! The representation of relations." Data & Donuts. digital HKS, Harvard Kennedy School. Cambridge, MA, November 2, 2018.
 - "Demystifying AI: Terms of disservice." AI Working Group, Berkman Klein Center for Internet & Society. Cambridge, MA, October 28, 2018.
 - "Surprising aspects of 'prediction' in data science." 0213eight, Harvard Alumni Association. Cambridge, MA, October 13, 2018.
 - "From the forest to the swamp: Modeling vs. implementation in data science." Techtopia @ Harvard University. Cambridge, MA, October 2, 2018.
 - Thesis defense: "Bias and beyond in digital trace data." Institute for Software Research, School of Computer Science, Carnegie Mellon University. Pittsburgh, PA, August 9, 2018. https://mominmalik.com/defense.pdf
 - "Friendship and proximity in a fraternity cohort with mobile phone sensors." Modeling network dynamics (ses15.05), XXXVIII Sunbelt Conference of the International Network for Social Network Analysis. Utrecht, Netherlands, July 1, 2018. https://mominmalik.com/sunbelt2018.pdf
- "A critical introduction to statistics and machine learning." Cascais Data Science for Social Good Europe Fellowship, Nova School of Business and Economics, Universidade NOVA de Lisboa. Lisbon, Portugal, August 15, 2017.
 https://mominmalik.com/critical intro stats 1.pdf and https://mominmalik.com/critical intro stats 2.pdf

- 2016 "A social scientist's guide to network statistics." Guest lecture in 70/73-449: Social, Economic and Information Networks, Fall 2016 (Instructor: Dr. Katharine Anderson). Undergraduate Economics, Carnegie Mellon University. Pittsburgh, PA, November 10, 2016. https://mominmalik.com/network_stats_guide.pdf
 - "Bias busters @ university workshop: A Carnegie Mellon/Google collaboration to address unconscious bias." With Carol Frieze (Carnegie Mellon University, School of Computer Science), Gerry Katilius (Google Pittsburgh), and Diana Marculescu (Carnegie Mellon University, College of Engineering). 2016 ACM Richard Tapia Celebration of Diversity in Computing Conference (Tapia 2016). Austin, TX, September 15, 2016.
 - "Platform effects in social media networks." Social Networks 1, 2nd Annual International Conference on Computational Social Science (IC2S2). Northwestern University. Evanston, IL, June 24, 2016. https://mominmalik.com/iccss2016.pdf
 - "A social scientist's guide to network statistics (presented to statisticians)." stat-network seminar, Department of Statistics, Carnegie Mellon University. Pittsburgh, PA, March 25, 2016.
 - "Bias busting @ university workshop—A Carnegie Mellon/Google collaboration to address unconscious bias." With Carol Frieze (Carnegie Mellon University, School of Computer Science), Gerry Katilius (Google Pittsburgh), and Diana Marculescu (Carnegie Mellon University, College of Engineering). Women in Engineering ProActive Network Change Leader Forum (WEPAN 2016). Broomfield, CO, June 15, 2016.
 - "Identifying platform effects in social media data." Session I: Biases and Inequalities, Tenth International AAAI Conference on Web and Social Media (ICWSM-2016). Cologne, Germany, May 18, 2016. https://mominmalik.com/icwsm2016slides.pdf
 - "Social media data and computational models of mobility: A review for demography." 2016 ICWSM Workshop on Social Media and Demographic Research (ICWSM-16 SMDR). Cologne, Germany, May 17, 2016.https://mominmalik.com/smdr2016.pdf
 - "Platform effects in social media networks." Social Media Networks: Challenges and Solutions (Sunday AM2), XXXVI Sunbelt Conference of the International Network for Social Network Analysis. Newport Beach, CA, April 10, 2016. https://mominmalik.com/sunbelt2016.pdf
 - "Ethical and policy issues in predictive modeling." Guest lecture in 08-200/08-630/19-211: Ethics and Policy Issues in Computing, Spring 2016 (Instructor: Dr. James Herbsleb). Institute for Software Research, School of Computer Science, Carnegie Mellon University. Pittsburgh, PA, March 1, 2016. https://mominmalik.com/modeling_ethics.pdf
- 2015 "Population bias in geotagged tweets." 2015 ICWSM Workshop on Standards and Practices in Social Media Research (ICWSM-2015 SPSM), Ninth International AAAI Conference on Web and Social Media (ICWSM-15). University of Oxford, UK, May 26, 2015. https://mominmalik.com/malik_spsm2015slides.pdf
- 2014 "Quick R and igraph intro." Guest lecture in 08-302/08-622: Introduction to Network Science, Fall 2014 (Instructor: Dr. Jürgen Pfeffer). Institute for Software Research, School of Computer Science, Carnegie Mellon University. Pittsburgh, PA, March 1, 2016.
 - "Inferring social networks from sensor data." Network Data Collection (Saturday AM2), XXXIV Sunbelt Conference of the International Network for Social Network Analysis. St Pete Beach, FL, February 22, 2014. https://mominmalik.com/malik_sunbelt2014slides.pdf

Reports

- 2017 Io Flament, Cristina Lozano, and Momin M. Malik. 2017. Data-driven planning for sustainable tourism in Tuscany. Cascais, Portugal: Data Science for Social Good Europe. https://github.com/DSSG-EUROPE/florence/blob/master/docs/DSSG_Florence_report.pdf
- 2013 Urs Gasser, Momin Malik, Sandra Cortesi, and Meredith Beaton. 2013. Mapping approaches to news literacy curriculum development: A navigation aid. Berkman Center Research Publication No. 2013-25. https://ssrn.com/abstract=2354500
 - **Momin Malik**, Sandra Cortesi, and Urs Gasser. 2013. *The challenges of defining 'news literacy'*. Berkman Center Research Publication No. 2013-20. https://ssrn.com/abstract=2342313
- 2012 Urs Gasser, Sandra Cortesi, **Momin Malik**, and Ashley Lee. 2012. *Youth and digital media: From credibility to information quality.*Berkman Center Research Publication No. 2012-1. https://ssrn.com/abstract=2005272
- 2010 Urs Gasser, Sandra Cortesi, Momin Malik, and Ashley Lee. 2010. Information quality, youth, and media: A research update. Youth Media Reporter, August 30. http://www.youthmediareporter.org/2010/08/30/information-quality-youth-and-media-a-research-update/

Blogging

2019 Can algorithms themselves be biased? 2019. Medium, Berkman Klein Center Collection, April 24. https://link.medium.com/ULLHZJQL3Y

Professional Service

Event Organizing

- 2019 Momin M. Malik, Katja Mayer, Hemank Lamba, and Claudia Müller-Brin (co-organizers). Workshop on critical data science. The 13th International Conference on Web and Social Media (ICWSM-19). Munich, Germany, June 11, 2019. https://critical-data-science.github.io/
- 2016 Logistics, communication, materials, and tabling for "Train the Trainer workshop," by Bias Busters @ Carnegie Mellon University. Google Pittsburgh, November 1–2, 2016. Pittsburgh, PA.

Volunteering/Community

2015-18 Facilitator, Bias Busters @ CMU

Committee Service

- 2020 Senior program committee, International AAAI Conference on Web and Social Media (ICWSM).
- 2018-19 Program committee, International AAAI Conference on Web and Social Media (ICWSM).
 - 2020 Sponsorship chair, 14th International AAAI Conference on Web and Social Media (ICWSM-2020). Atlanta, GA, June 8–June 11, 2020.
- 2019–20 Steering committee, Annotation and Benchmarking on Understanding and Transparency of Machine learning Lifecycles (ABOUT ML). The Partnership on AI (PAI).
 - 2019 Posters co-chair, 11th International ACM Web Science Conference 2019 (WebSci '19). Boston, MA, June 30-July 3, 2019.
 - 2018- Program committee, International World Wide Web Conference (WWW/TheWebConf) Web and Society track.
 - 2017 Program committee, International Conference on Computational Social Science (IC2S2).

Other participation

- 2019 Leading thinker session on "Life in the Age of Algorithms." Project Information Literacy, Harvard Graduate School of Education. Cambridge, MA, November 7, 2019. Reported about in: Alison J. Head, Barbara Fister, and Margy MacMillan. 2020, January 15. Information literacy in the age of algorithms: Student experiences with news and information, and the need for change. Cambridge, MA: Project Information Research Institute. https://projectinfolit.org/publications/algorithm-study/
- 2019 International Expert Workshop on Automated Decision-Making. Center for Information Technology, Society, and Law (ITSL), University of Zurich. September 12–14, 2019, Lavin, Switzerland.

Peer Review

- 2021 Communications of the ACM (Association for Computing Machinery)
- 2020 Sociological Methods & Research (SAGE Journals).
 - Big Data & Society (SAGE Journals).
- 2018–20 EPJ Data Science (Springer)
- 2019–20 Frontiers in Big Data, Data Mining and Management (Frontiers Media S.A.).
 - 2019 Editorial Board member for special issue on "Critical Data and Algorithms Studies." Frontiers in Big Data, Data Mining and Management (Frontiers Media S.A.).
- 2016-19 Digital Journalism (Taylor & Francis).
- 2017–18 Journal of Medical Internet Research (JMIR Publications).

Mentions

Media

- 2021 Scottie Andrew. 2021. Reparations for slavery could have reduced Covid-19 transmission and deaths in the US, Harvard study says. CNN, February 16. https://www.cnn.com/2021/02/16/us/reparations-covid-black-americans-disparity-trnd/index.html
- 2015 Deborah M. Todd. 2015. Does Twitter outrage lead to tangible action? CMU study fails to find link. Pittsburgh Post-Gazette, August 11. https://www.post-gazette.com/business/tech-news/2015/07/17/CMU-studies-fails-to-find-like-between-Twitter-outrage-and-tangible-action/stories/201507170141

Commentaries/Editorials

- 2021 Susan Cassels and Sigrid Van Den Abbeele. 2021. A call for epidemic modeling to examine historical and structural drivers of racial disparities in infectious disease [Commentary on "Reparations for Black American descendants of persons enslaved in the U.S. and their potential impact on SARS-CoV-2 transmission"]. Social Science & Medicine 276: 113833. doi:10.1016/j.socscimed.2021.113833
- 2016 Bob Franklin. 2016. The future of journalism: Risks, threats, and opportunities [Mention of "A macroscopic analysis of news content on Twitter"]. Journalism Practice 10 (7): 805–807. doi:10.1080/17512786.2016.1197640

Acknowledged in

2021 Ben Green. 2021. Data science as political action: Grounding data science in a politics of justice. *Journal of Social Computing* 2 (3): 249–265. doi:10.23919/ISC.2021.0029

Jonnie Penn. 2021. Algorithmic silence: A call to decomputerize. *Journal of Social Computing* 2 (4): 337–356. doi:10.23919/JSC.2021.0023

2019 Dariusz Jemielniak. 2019. Socjologia Internetu [Polish]. Warszawa: Wydawnictwo Naukowe Scholar.

Keiki Hinami, Michael J. Ray, Kruti Doshi, Maria Torres, Steven Aks, John J. Shannon, and William E. Trick. 2019. Prescribing associated with high-risk opioid exposures among non-cancer chronic users of opioid analgesics: A social network analysis. *Journal of General Internal Medicine* 34: 2443–2450. doi:10.1007/s11606-019-05114-3

2013 Viktor Mayer-Schönberger and Kenneth Cukier. 2013. *Big Data: A revolution that will transform how we live, work, and think.*Boston and New York: Eamon Dolan/Houghton Mifflin Harcourt.

Mary Madden, Amanda Lenhart, Sandra Cortesi, Urs Gasser, Maeve Duggan, Aaron Smith, and Meredith Beaton. 2013. *Teens, social media, and privacy*. Pew Internet & American Life Project, May 21. https://www.pewresearch.org/internet/2013/05/21/teens-social-media-and-privacy/

Skills

12 years R (igraph, statnet, spdep)

11 years Python (pandas, scikitlearn, networkx)

11 years Network analysis graphical packages (Gephi, Pajek, Cytoscape)

9 years LATEX

7 years SQL (PostgreSQL, MySQL)

21 years Adobe (Illustrator, Photoshop, InDesign)

Hobbies

18 years Sitar and Hindustani music

21 years Graphic design

Profiles

- Ittps://scholar.google.com/citations?user=i5GIxY4AAAAJ
- https://publons.com/researcher/AAC-9404-2020/
- https://dblp.uni-trier.de/pid/171/2245.html
- https://dl.acm.org/profile/99658764564
- X https://arxiv.org/a/malik_m_2.html

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- https://github.com/momin-malik
- https://www.linkedin.com/in/momin-malik/