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Research areas Computational social science; network science; computer-supported cooperative work; social computing; human-centered data science; cannabis informatics

Appointments

University of Colorado, Boulder	Boulder, Colorado, USA
Assistant Professor, Department of Information Science	2016 – present
By courtesy, Department of Computer Science	2016 – present
Affiliate, Research and Education Addressing Cannabis and Health	2017 – present
Affiliate, Population Center, Institute for Behavioral Research	2018 – present
Affiliate, American Politics Research Lab, Political Science	2018 – present
Affiliate, Natural Hazards Center, Institute for Behavioral Research	2019 – present
Faculty Fellow, ATLAS Institute	2019 – present

Harvard Business School Boston, Massachusetts, USA
Research Associate, HBS Online 2014 – 2016

Northeastern University Boston, Massachusetts, USA
Post-Doctoral Research Fellow, Lazer Lab 2012 – 2014

Education

Northwestern University	Evanston, Illinois, USA
Ph.D., Media, Technology, and Society	2012
M.A., Media, Technology, and Society	2010

Massachusetts Institute of Technology Cambridge, Massachusetts, USA
S.B., Science, Technology, and Society 2006
S.B., Mechanical Engineering 2006

Academic and professional honors


2019 Honorary Mention, Best Paper; ACM CSCW.
2017 Participant, Leadership in Science Policy Institute; Computing Community Consortium.
2015 Honorary Mention, Best Paper; ACM CSCW.
2011 Best Paper; ACM Conference on Web Science.
Best Paper; The Game Behind the Video Game.
Best Student Paper; Communication and Technology Division, ICA.
2010 Honorary Mention, Best Paper; ACM CSCW.
2005 John Burchard Scholar; MIT School of Humanities, Arts, and Social Sciences.

Awards and funding

G.7 **Keegan, B.** & Fiesler, C. (Dec. 2022–Sep. 2023). “RAPID: Documenting and understanding large-scale migrations between social media platforms.” NSF CISE Cyber-Human Systems (\$95,201). https://www.nsf.gov/awardsearch/showAward?AWD_ID=2309485

G.6 **Keegan, B.** (sub-contractor), Shenoy, N. & Baranowski, R. (Co-PIs). (Dec. 2020–May 2021). “TEACHR: Technical Explanation of Algorithmic Choice Hierarchy and Reasoning.” AFWERX (\$300,000, \$70,000 to CU Boulder).

- G.5 **Keegan, B.** & Tan, C. (Co-PIs). (Oct. 2019–Sep. 2023). “CHS: Small: A Genealogical Framework to Understand the Emergence of Online Groups.” NSF CISE Cyber–Human Systems (\$499,724). https://www.nsf.gov/awardsearch/showAward?AWD_ID=1910225
- G.4 **Keegan, B.** (PI). (Apr. 2019–May 2021). “Multiplayer Online Battle Arenas as Models of High-Tempo Virtual Teams.” Oracle for Research Cloud Credits (\$25,000).
- G.3 **Keegan, B.** (PI). (Apr. 2018–May 2021). “EAGER: Social Dynamics of Organizational Behavior in Temporary Virtual Teams.” NSF CISE Cyber–Human Systems (\$199,864). https://www.nsf.gov/awardsearch/showAward?AWD_ID=1841374
- G.2 **Keegan, B.** (PI), Lindquist, T., Adler, S. (Sep. 2017–May 2018). “Prosopographical data mining for analyzing multiple network among members of U.S. Congress since 1789.” CU Boulder RIO Innovative Seed Grant Program (\$49,603).
- G.1 **Keegan, B.** (PI). (Sep. 2017–May 2018). “Multiplayer Online Games as Models of Organizational Behavior.” Microsoft Azure Research Award (\$20,000).

Publications NOTE: Student authors marked with *. Awards marked with .

Journal articles

- J.12 Smith, C.J., Vergara, D., **Keegan, B.**, Jikomes, N. (2022). “The phytochemical diversity of commercial Cannabis in the United States.” *PLoS ONE*, 17(5). <https://doi.org/10.1371/journal.pone.0267498>
- J.11 Wirfs-Brock, J.,* Fam, A., Devendorf, L., & **Keegan, B.** (2021). “Examining Narrative Sonification: Using First-Person Retrospection Methods to Translate Radio Production to Interaction Design.” *ACM Transactions on Computer-Human Interaction (ToCHI)*, accepted.
- J.10 Vergara, D., Gaudino, R., Blank, T., & **Keegan, B.** (2020). “Modeling cannabinoids from a large-scale sample of Cannabis sativa chemotypes.” *PLoS ONE*, 1–17. <https://doi.org/10.1371/journal.pone.0236878>
- J.9 Porter, E.,* Krafft, P.M., & **Keegan, B.** (2020). “Visual Narratives and Collective Memory across Peer-Produced Accounts of Contested Sociopolitical Events.” *ACM Transactions on Social Computing*, 3(1), 1–20. <https://doi.org/10.1145/3373147>
- J.8 Anderson, A., Soden, R., **Keegan, B.**, Palen, L., & Anderson, K. (2018). “The Crowd is the Territory: Assessing Quality in Peer-Produced Spatial Data During Disasters.” *International Journal of Human-Computer Interaction*, 34(4), 295–310. <https://doi.org/10.1080/10447318.2018.1427828>
- J.7 Radford, J., Pilny, A., Reichelmann, A., **Keegan, B.**, Foucault-Welles, B., Hoye, J., Ognyanova, K., & Lazer, D. (2016). “Volunteer Science: An Online Laboratory for Experiments in Social Psychology.” *Social Psychology Quarterly*, 79(4), 376–396. <https://doi.org/10.1177/01461649160675866>
- J.6 Margolin, D., Goodman, S., **Keegan, B.**, Lin, Y.R., & Lazer, D. (2015). “Wiki-Worthy: Judging a Candidate’s Notability in the Community.” *Information, Communication and Society*, 19(8), 1029–1045. <https://doi.org/10.1080/1369118X.2015.1069871>
- J.5 Kennedy, R., Forbush, E., **Keegan, B.**, & Lazer, D. (2015). “Turning Introductory Comparative Politics and Elections Courses into Social Science Research Communities Using Wikipedia: Improving Both Teaching and Research.” *PS: Political Science and Politics*, 48(2), 378–384. doi:10.1017/S1049096514002157
- J.4 Lin, Y.R., **Keegan, B.**, Margolin, D., & Lazer, D. (2014). “Rising tides or rising stars? Dynamics of shared attention on Twitter during media events.” *PLoS ONE*, 1–12. <https://doi.org/10.1371/journal.pone.0094093>

- J.3 **Keegan, B.**,* Gergle, D., & Contractor, N. (2013). “Hot off the Wiki: Structures and Dynamics of Wikipedia’s Coverage of Breaking News Events.” *American Behavioral Scientist*, 57(5), 595–622. <https://doi.org/10.1177%2F0002764212469367>
- J.2 Contractor, N., DeChurch, L.A., Carson, J.,* Carter, D.R.,* & **Keegan, B.*** (2012). “The Topology of Collective Leadership.” *The Leadership Quarterly*, 23(6), 994–1011. <https://doi.org/10.1016/j.leaqua.2012.10.010>
- J.1 Williams, D., Castronova, E., Huang, Y., Shen, C.,* **Keegan, B.**,* Ratan, R.,* & Xiong, L.* (2009). “As real as real? Macroeconomic behavior in a large-scale virtual world.” *New Media & Society*, 11, 685–707. <https://doi.org/10.1177%2F1461444809105346>

**Top-tier
conference
proceedings**

- C.20 Smith, C.E., Alam, I.,* Tan, C., **Keegan, B.**, & Blanchard, A. (2022). “The Impact of Governance Bots on Sense of Virtual Community: Development and Validation of the GOV-BOTs Scale.” In *Proceedings of the ACM on Human-Computer Interaction (CSCW)*, 6, 1–30. ACM. <https://doi.org/10.1145/3555563>
- C.19 Zhang, J.S.,* **Keegan, B.**, Lv, Q., & Tan, C. (2021). “Understanding the Diverging User Trajectories in Highly-related Online Communities during the COVID-19 Pandemic.” In *Proceedings of the 2021 AAAI Conference on Web and Social Media (ICWSM)*, 15(1), 888–899. AAAI. <https://ojs.aaai.org/index.php/ICWSM/article/view/18112>
- C.18 Baumgartner, J., Zannettou, S., **Keegan, B.**, Squire, M., & Blackburn, J. (2020). “The Pushshift Reddit Dataset.” In *Proceedings of the 2020 AAAI Conference on Web and Social Media (ICWSM)*, 14(1), 830–839. AAAI. <https://ojs.aaai.org/index.php/ICWSM/article/view/7347>
- C.17 Fiesler, C., Beard, N.,* & **Keegan, B.** (2020). “No Robots, Spiders, or Scrapers: Legal and Ethical Regulation of Data Collection Methods in Social Media Terms of Service.” In *Proceedings of the 2020 AAAI Conference on Web and Social Media (ICWSM)*, 14(1), 187–196. AAAI. <https://ojs.aaai.org/index.php/ICWSM/article/view/7290>
- 🏆 C.16 Frey, S., Krafft, P.M.,* & **Keegan, B.** (2019). “‘This Place Does What It Was Built For’: Digital Institution Design as a Resource Management Challenge.” In *Proceedings of the 2019 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 3, 1–31. ACM. <https://dl.acm.org/doi/10.1145/3359134> *Honorable Mention, Best Paper.*
- C.15 **Keegan, B.** (2019). “The Dynamics of Peer-Produced Political Information During the 2016 U.S. Presidential Campaign.” In *Proceedings of the 2019 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 3, 1–20. ACM. <https://doi.org/10.1145/3359135>
- C.14 Flores-Saviaga, C.,* Savage, S., & **Keegan, B.** (2018). “Mobilizing the Trump Train: Understanding Collective Action in a Political Trolling Community.” In *Proceedings of the 2018 AAAI International Conference on Web and Social Media (ICWSM)*, 12(1), 82–91. AAAI. <https://ojs.aaai.org/index.php/ICWSM/article/view/15024>
- C.13 **Keegan, B.** & Fiesler, C. (2017). “The Evolution and Consequences of Peer Producing Wikipedia’s Rules.” In *Proceedings of the 2017 AAAI International Conference on Web and Social Media (ICWSM)*, 11(1), 112–121. AAAI. <https://ojs.aaai.org/index.php/ICWSM/article/view/14899>
- C.12 Twyman, M.,* **Keegan, B.**, & Shaw, A. (2017). “Black Lives Matter in Wikipedia: Collaboration and Collective Memory around Online Social Movements.” In *Proceedings of the 2017 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 1400–1412. ACM. <https://doi.org/10.1145/2998181.2998232>
- C.11 Leavitt, A.,* **Keegan, B.**, & Clark, J.* (2016). “Ping to Win? Non-Verbal Communication and Team Performance in Competitive Online Multiplayer Games.” In *Proceedings of the 2016 ACM Conference on Human-Computer Interaction (CHI)*, 4337–4350. ACM. <https://doi.org/10.1145/2858036.2858132>

- C.10 Kim, J.Y.,* **Keegan, B.**, Park, S.J.,* & Oh, A. (2016). “The Proficiency–Congruency Dilemma: Virtual Team Design and Performance in Multiplayer Online Games.” In *Proceedings of the 2016 ACM Conference on Human–Computer Interaction (CHI)*, 4351–4365. ACM. <https://doi.org/10.1145/2858036.2858464>
- C.9 **Keegan, B.**, Lev, S., & Arazy, O. (2016). “Analyzing Organizational Routines in Online Knowledge Collaborations: A Case for Sequence Analysis in CSCW.” In *Proceedings of the 2016 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 1065–1079. ACM. <https://doi.org/10.1145/2818048.2819962>
- C.8 Kim, J.W.,* Kim, D.,* **Keegan, B.**, Kim, J.H.,* Kim, S.,* & Oh, A. (2015). “Social Media Dynamics of Global Co-presence During the 2014 FIFA World Cup.” In *Proceedings of the 2015 ACM Conference on Human–Computer Interaction (CHI)*, 2623–2632. ACM. <https://doi.org/10.1145/2702123.2702317>
- 🏆 C.7 **Keegan, B.** & Brubaker, J.* (2015). “‘Is’ to ‘Was’: Coordination and Commemoration on Posthumous Wikipedia Biographies.” In *Proceedings of the 2015 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 533–546. ACM. <https://doi.org/10.1145/2675133.2675238> **Honorable Mention, Best Paper.**
- C.6 Hannak, A.,* Margolin, D., **Keegan, B.**, & Weber, I. (2014). “Get Back! You Don’t Know Me Like That: The Social Mediation of Fact Checking Interventions in Twitter Conversations.” In *Proceedings of the Eighth International AAAI Conference on Weblogs and Social Media (ICWSM)*, 187–196. AAAI. <https://ojs.aaai.org/index.php/ICWSM/article/view/14555>
- C.5 Lin, Y.R., Margolin, D., **Keegan, B.**, Baronchelli, A., & Lazer, D. (2013). “#Bigbirds Never Die: Understanding Social Dynamics of Emergent Hashtags.” In *Proceedings of the Seventh International AAAI Conference on Weblogs and Social Media (ICWSM)*, 7(1), 370–379. AAAI. <https://ojs.aaai.org/index.php/ICWSM/article/view/14407>
- C.4 Lin, Y.R., Margolin, D., **Keegan, B.**, & Lazer, D. (2013). “Voices of Victory: A Computational Focus Group Framework for Tracking Opinion Shift in Real Time.” In *Proceedings of the 22nd International World Wide Web Conference (WWW)*, 737–748. ACM. <https://doi.org/10.1145/2488388.2488453>
- C.3 **Keegan, B.**,* Gergle, D., & Contractor, N. (2012). “Do Editors or Articles Drive Collaboration? Multilevel Statistical Network Analysis of Wikipedia Coauthorship.” In *Proceedings of the 2012 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 427–436. ACM. <https://doi.org/10.1145/2145204.2145271>
- C.2 Ahmad, M.A.,* **Keegan, B.**,* Srivastava, J., Williams, D., & Contractor, N. (2011). “Trust Amongst Rogues? A Hypergraph Approach for Comparing Clandestine Trust Networks in MMOGs.” In *Proceedings of the Fifth International AAAI Conference on Weblogs and Social Media (ICWSM)*, 5(1), 10–17. AAAI. <https://ojs.aaai.org/index.php/ICWSM/article/view/14125>
- 🏆 C.1 **Keegan, B.*** & Gergle, D. (2010). “Egalitarians at the Gate: One-Sided Gatekeeping Practices in Participatory Social Media.” In *Proceedings of the 2010 ACM Conference on Computer-Supported Collaborative Work (CSCW)*, 131–134. ACM. <https://doi.org/10.1145/1718918.1718943> **Honorable Mention, Best Note.**

**Competitive
conference
proceedings**

- R.9 **Keegan, B.*** Ceni, A., & Smith, M. (2013). “Analyzing Multi-Dimensional Networks within MediaWikis.” In *Proceedings of the Ninth International Symposium on Wikis and Open Collaboration (WikiSym)*, 1–10. ACM. <https://doi.org/10.1145/2491055.2491056>
- R.8 **Keegan, B.*** (2013). “A History of Newsworld on Wikipedia.” In *Proceedings of the Ninth International Symposium on Wikis and Open Collaboration (WikiSym)*, 1–10. ACM. <https://doi.org/10.1145/2491055.2491062>

- R.7 **Keegan, B.**,* Gergle, D., & Contractor, N. (2012). “Staying in the Loop: Structure and Dynamics of Wikipedia’s Breaking News Collaborations.” In *Proceedings of the Eighth International Symposium on Wikis and Open Collaboration (WikiSym)*, 1–10. ACM. <https://doi.org/10.1145/2462932.2462934>
- R.6 Ahmad, M.A.,* **Keegan, B.**,* Sullivan, S.,* Williams, D., Srivastava, J., & Contractor, N. (2011). “Illicit Bits: Detecting and Analyzing Contraband Networks in Massively Multiplayer Online Games.” In *Proceedings of the Third IEEE Conference on Social Computing (SocialCom)*, 127–134. IEEE. <https://doi.org/10.1109/PASSAT/SocialCom.2011.183>
- R.5 **Keegan, B.**,* Gergle, D., & Contractor, N. (2011). “Hot off the Wiki: Dynamics, Practices, and Structures in Wikipedia’s Coverage of the Tōhoku Catastrophes.” In *Proceedings of the Seventh International Symposium on Wikis and Open Collaboration (WikiSym)*, 105–113. ACM. <https://doi.org/10.1145/2038558.2038577>
- 🏆 R.4 **Keegan, B.**,* Ahmad, M.A.,* Williams, D., Srivastava, J., & Contractor, N. (2011). “Sic Transit Gloria Mundi Virtuali? Promise and Peril at the Intersection of Computational Social Science and Online Clandestine Organizations.” In *Proceedings of the Third International ACM Conference on Web Science (WebSci)*, 1–8. ACM. <https://doi.org/10.1145/2527031.2527057> **Best Paper.**
- R.3 **Keegan, B.**,* Ahmad, M.A.,* Williams, D., Srivastava, J., & Contractor, N. (2010). “Dark Gold: Statistical Properties of Clandestine Networks in Massively Multiplayer Online Games.” In *Proceedings of the Second IEEE Conference on Social Computing (SocialCom)*, 201–208. IEEE. <https://doi.org/10.1109/SocialCom.2010.36>
- R.2 Ahmad, M.A.,* **Keegan, B.**,* Srivastava, J., Williams, D., Contractor, N. (2009). “Mining for Gold Farmers: Automatic Detection of Deviant Players in MMOGs.” In *Proceedings of the First IEEE Conference on Social Computing (SocialCom)*, 340–345. IEEE. <https://doi.org/10.1109/CSE.2009.307>
- R.1 Huang, Y., Zhu, M.,* Wang, J.,* Pathak, N.,* Shen, C.,* **Keegan, B.**,* Williams, D., Contractor, N. (2009). “The Formation of Task-oriented Groups: Exploring Combat Activities in Online Games.” In *Proceedings of the First IEEE Conference on Social Computing (SocialCom)*, 122–127. IEEE. <https://doi.org/10.1109/CSE.2009.465>

Book chapters

- B.2 **Keegan, B.** (2021) “An Encyclopedia with Breaking News.” In J. Reagle & J. Koerner (Eds.), *Wikipedia @ 20*, 55–70. MIT Press. <https://doi.org/10.7551/mitpress/12366.003.0007>
- B.1 **Keegan, B.** (2015). “Emergent Social Roles in Wikipedia’s Breaking News Collaborations.” In E. Bertino & S.A. Matei (Eds.), *Roles, Trust, and Reputation in Social Media Knowledge Markets*, 57–79. Springer. https://doi.org/10.1007/978-3-319-05467-4_4

Conference presentations

- NOTE:** The presentations listed below are distinct and separate from the presentation of papers published in archival conference proceedings referenced above.
- P.31 **Keegan, B.** (2018). “The Dynamics of Peer-Produced Information During the 2016 U.S. Presidential Campaign.” In *Proceedings of the 2018 AAAI International Conference on Web and Social Media (ICWSM)*. Stanford, CA, USA.
- P.30 Fiesler, C., Beard, N.,* **Keegan, B.** (2018) “No Robots, Spiders, or Scrapers: Regulation of Data Collection Methods in Social Media Terms of Service.” In *Proceedings of the 2018 AAAI International Conference on Web and Social Media (ICWSM)*. Stanford, CA, USA.
- P.29 Porter, E.* & **Keegan, B.** (2018). “Visual Rhetoric and Collective Memory across Peer-Produced Accounts of Political Crises.” 2018 International Conference on Computational Social Science (IC2S2). Evanston, IL, USA.

- P.28 **Keegan, B.** (2018). “The Dynamics of Peer-Produced Political Information During the 2016 U.S. Presidential Campaign.” 2018 International Conference on Computational Social Science (IC2S2). Evanston, IL, USA.
- P.27 **Keegan, B.** (2018). “A Research Agenda for Cannabis Informatics.” 2018 Institute for Cannabis Research (ICR) Conference. Pueblo, CO, USA.
- P.26 **Keegan, B.** (2017). “The Evolution and Consequences of Peer Producing Wikipedia’s Rules.” 2017 International Conference on Computational Social Science (IC2S2). Köln, Germany.
- P.25 Twyman, M.,* **Keegan, B.**, Shaw, A. (2017). “Black Lives Matter in Wikipedia: Collaboration and Collective Memory around Online Social Movements.” 2017 International Conference on Computational Social Science (IC2S2). Köln, Germany.
- P.24 **Keegan, B.** (2017). “The Structure of Sequences: Mining and Interpreting Networks from Event Log Data.” Sunbelt XXXVII. International Network for Social Network Analysis. Beijing, China.
- P.23 Zhang, A.* & **Keegan, B.** (2017) “Exploration and Exploitation of Team Assembly Strategies in a MOBA.” Sunbelt XXXVII. International Network for Social Network Analysis. Beijing, China.
- P.22 **Keegan, B.** (2016). “The Structure of Sequences: Mining and Interpreting Networks from Event Log Data.” 2016 International Conference on Computational Social Science (IC2S2). Evanston, IL, USA.
- P.21 Radford, J.,* **Keegan, B.**, Hoyer, J., Karbeyaz, C.,* Ognyanova, K., Foucault-Welles, B., Meleis, W., & Lazer, D. (2015). “Conducting Massively Open Online Social Experiments with Volunteer Science.” 2015 International Conference on Web and Social Media (ICWSM), Social Science non-archival track. Oxford, UK.
- P.20 Lin, Y.R., **Keegan, B.**, Margolin, D., & Lazer, D. (2014). “Did You See That? Shared Attention to Media Events on Twitter.” 2014 International Communication Association Annual Conference (ICA). Seattle, WA, USA.
- P.19 **Keegan, B.** (2014) “Sociotechnical Trajectories: A Structural Framework for Analyzing Event Log Data.” 2014 International Communication Association Annual Conference (ICA). Seattle, WA, USA.
- P.18 **Keegan, B.**, Tsur, O., Kennedy, R., & Lazer, D. (2013). “Mining Complex Networks from Official Congressional Biographies.” Fifth Workshop on Information in Networks (WIN). New York City, NY, USA.
- P.17 **Keegan, B.**, Riedl, C., Lazer, D., & Contractor, N. (2013). “Multidimensional Networks in Crowdsourced Creative Collaboration.” Fifth Workshop on Information in Networks (WIN). New York City, NY, USA.
- P.16 **Keegan, B.**, Goodman, S., Kennedy, R., & Lazer, D. (2013). “Building the Iron Cage: The Evolution of Multidimensional Networks in the U.S. Congress (1776–2013) and Catholic Hierarchy (1774–2013).” 2013 International Workshop and Conference on Network Science (NetSci). Copenhagen, Denmark.
- P.15 Goodman, S., Margolin, D., **Keegan, B.**, Lin, Y.R., & Lazer, D. (2013). “Open Source Predictors of Electoral Success.” 2013 American Political Science Association Annual Meeting (APSA). Chicago, IL, USA.
- P.14 Goodman, S., Margolin, D., **Keegan, B.**, Lin, Y.R., & Lazer, D. (2013). “Big Data as Big Canaries: Comparison of Open Source Indicators of Electoral Success.” 71st Annual Conference of the Midwest Political Science Association (MPSA). Chicago, IL, USA.
- P.13 **Keegan, B.**, Lin, Y.R., & Lazer, D. (2013). “Ripples on the Web: Diffusion of Activity Bursts Across Hyperlink Networks in Wikipedia.” Sunbelt XXXIII, International Network for Social Network Analysis. Hamburg, Germany.

- P.12 Lin, Y.R., Margolin, D., **Keegan, B.**, & Lazer, D. (2013). “#Bigbirds Never Die: The Formation of Consensus in Response to Novel Information.” Sunbelt XXXIII, International Network for Social Network Analysis. Hamburg, Germany.
- P.11 Margolin, D., **Keegan, B.**, & Lazer, D. (2013). “Wisdom of the Network: Reducing Correlated Errors through Inferred Diffusion.” Sunbelt XXXIII, International Network for Social Network Analysis. Hamburg, Germany.
- P.10 **Keegan, B.**, Karbeyaz, C.,* Meleis, W., & Lazer, D. (2013). “Volunteer Science: Online Behavioral Experiments Using Facebook as a Subject Pool.” Sunbelt XXXIII, International Network for Social Network Analysis. Hamburg, Germany.
- P.9 **Keegan, B.** (2012). “Comparative Analysis of Coauthorship Networks on Wikipedia Breaking News Articles.” Sunbelt XXXII, International Network for Social Network Analysis. Redondo Beach, CA, USA.
- P.8 Chang, C.,* **Keegan, B.**, Bennett, N., Lungeanu, A., Gilborne, J., & Contractor, N. (2012). “Multidimensional Networks in Crowdsourced Collaboration.” Sunbelt XXXII, International Network for Social Network Analysis. Redondo Beach, CA, USA.
- 🏆 P.7 **Keegan, B.*** (2011). “Breaking News, Breaking Planes, and Breaking Hearts: Psycholinguistic Dynamics and Sensemaking in Collaborative Accounts of Catastrophe.” 2011 International Communication Association Annual Conference (ICA). Boston, MA, USA. *Best Student Paper, Communication and Technology division.*
- 🏆 P.6 **Keegan, B.*** Ahmad, M.A.,* Williams, D., Srivastava, J., & Contractor, N. (2011). “Mapping Gold Farming Back to Offline Clandestine Organizations: Methodological, Theoretical, and Ethical Challenges.” *The Game Behind the Video Game: Business, Regulation, and Society in the Gaming Industry.* Rutgers University, New Brunswick, NJ, USA. **Best Paper.**
- P.5 **Keegan, B.*** Gergle, D., & Contractor, N. (2011). “A Multi-theoretical, Multi-level Model of High Tempo Collaboration in an Online Community.” Sunbelt XXXI, International Network for Social Network Analysis. St. Petersburg, FL, USA
- P.4 **Keegan, B.*** Ahmad, M.A.,* Williams, D., Srivastava, J., & Contractor, N. (2011). “Using ERGMs to Map Online Clandestine Behavior to Offline Criminal Activity.” Sunbelt XXXI, International Network for Social Network Analysis. St. Petersburg, FL, USA.
- P.3 Williams, D., Castronova, E., Huang, Y., Shen, C.,* **Keegan, B.*** Ratan, R.,* Xiong, L.,* & Contractor, N. (2009). “As real as real? Macroeconomic behavior in a large-scale virtual world.” 2009 International Communication Association Annual Conference (ICA). Chicago, IL, USA.
- P.2 **Keegan, B.*** (2009). “Are Wikipedians Really Gamers? A ludological perspective on the motivational literature and implications for designing participatory environments.” Internet Research 10.0, Association of Internet Researchers (AoIR). Milwaukee, WI, USA.
- P.1 Fullerton, L.,* **Keegan, B.*** & Menchen-Trevino, E.* (2009). “Institutionalizing notability on Wikipedia: process, policy and change.” Internet Research 10.0, Association of Internet Researchers (AoIR). Milwaukee, WI, USA.

**Workshops,
panels,
posters,
consortia**

- W.26 Wirfs-Brock, J., Graze, M., Devendorf, L., Desjardins, A., Goudarzi, V., Friske, M., & **Keegan, B.** (2022). “Sketching Across the Senses: Exploring Sensory Translation as a Generative Practice for Designing Data Representations.” In *Extended Abstracts of 2022 ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*. New Orleans, LA, USA. <https://doi.org/10.1145/3491101.3503712>
- W.25 Hill, B.M., Siddarth, D., **Keegan, B.**, & Foote, J. (2021). J. Fan & S. Frey (Mod.), “Investigating Self-Governing Online Commons.” International Association for the Study of the Commons (IASC). Virtual.

- W.24 Dalal, S.* & **Keegan, B.** (2020). “Governing the Commons of Platform Labor Data Assets.” CSCW 2020 Workshop on Civic Technologies. Virtual.
- W.23 Boyd, A.* & **Keegan, B.** (2020). “Intersectional human-centered data science: Raising consciousness among the data-driven.” CSCW 2020 Workshop on Interrogating Data Science. Virtual.
- W.22 **Keegan, B.** (2020). “Building a data science mindset.” CSCW 2020 Workshop on Interrogating Data Science. Virtual.
- W.21 Dioun, C., Fata, E., Lewandowski, B., Seaborn, P. (2019). **B. Keegan** (Mod.), “Data Analytics in the Cannabis Industry.” Institute for Cannabis Research 2019. Pueblo, CO, USA.
- W.20 **Keegan, B.** (2018). Quantitative Research Methods seminar. Interdisciplinary Training in the Social Sciences, Colleges of Arts and Sciences, University of Colorado Boulder, Boulder, CO, USA.
- W.19 **Keegan, B** & Morgan, A.* (2018). Summer Institute for Computational Social Science. Boulder, CO, USA.
- W.18 **Keegan, B.** & Vergara, D. (2018). Colloquium on Cannabis Research. Center for Research and Education Addressing Cannabis and Health. Boulder, CO, USA.
- W.17 **Keegan, B.**, Kaye, J., Cavazos-Rehg, P., de Choudhury, M., Nguyen, A.N., Paul, M.J., Savage, S. (2017). “CHI-nnabis: Implications of Marijuana Legalization for and from Human-Computer Interaction.” In *Extended Abstracts of 2017 ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, 1312–1317. Denver, CO, USA. <https://doi.org/10.1145/3027063.3051139>
- W.16 **Keegan, B.** & Matias, J.N.* (2016). “Actually, It’s About Ethics in Computational Social Science: A Multi-party Risk-Benefit Framework for Online Community Research.” AAAI Spring Symposium on Observational Studies through Social Media and Other Human-Generated Content. Stanford, CA, USA.
- W.15 Schillebeeckx, S.J.D., Grosman, A., Parmar, R., Miller, S., Haesler, J., Chow, G., & **Keegan, B.**, Koutroumpis, P., & Wattal, S. (2015). “Big Data in Universities: Building New Capabilities for Education, Research, and Practice.” Professional Development Workshop, 2015 Academy of Management Annual Meeting. Vancouver, BC, Canada.
- W.14 Hughes, A., **Keegan, B.**, Leavitt, A., Semaan, B., Starbird, K. (2015). “Cross-Platform Research Agenda for Crisis Informatics.” 2015 Consortium for the Science of Sociotechnical Systems (CSST) Summer Research Institute. Colorado Springs, CO, USA.
- W.13 **Keegan, B.** (2015). “Research in the Time of Technopanics.” Workshop on Ethics for Studying Sociotechnical Systems in a Big Data World. In *Proceedings of the 2015 ACM Conference on Computer-Supported Cooperative Work (CSCW)*. Vancouver, BC, Canada.
- W.12 Counts, S., de Choudhury, M., Diesner, J., Gilbert, E., **Keegan, B.**, Naaman, M., & Wallach, H. (2014). “Computational Social Science: CSCW in the Social Media Era.” In *Proceedings of the 2014 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 105–108. <https://doi.org/10.1145/2556420.2556849>
- W.11 **Keegan, B.** (2013). Digital Societies and Social Technologies Summer Institute, University of Maryland. College Park, MD, USA.
- W.10 Halfaker, A., Geiger, R.S., Terveen, L., Lampe, C., Bruckman, A., **Keegan, B.**, Fitzpatrick, G., & Kittur, A., (2013). “Community, Impact, and Credit: Where Should I Submit My Papers?” In *Proceedings of 2013 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 89–94. <https://doi.org/10.1145/2441955.2441980>

- W.9 Lin, Y.R., Margolin, D., **Keegan, B.**, Martino, M., Goodman, S., & Lazer, D. (2013). “Catching Fish in the Stream: Real Time Analysis of Audience Behavior in Social Media.” In *Proceedings of 2013 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 187–190. ACM. <https://doi.org/10.1145/2441955.2442002>
- W.8 Halfaker, A., * **Keegan, B.**, Forte, A., Geiger, R.S.,* Taraborelli, D., Pinchuk, M., Masli, M. (2012). “What Aren’t We Measuring?: Methoding for Quantifying Wiki-Work.” In *Proceedings of Eighth International Symposium on Wikis and Open Collaboration (WikiSym)*, 1–6. ACM. <https://doi.org/10.1145/2462932.2462983>
- W.7 Bernstein, M.,* Conover, M.,* Geiger, R.S.,* Hill, B.M.,* **Keegan, B.**,* Monroy-Hernandez, A.,* Shaw, A.,* Yardi, S.,* & Bruckman, A. (2012). “Fail Whaling: Designing from Deviance and Failures in Social Computing.” In *Proceedings of 2012 ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, 1127–1130. ACM. <https://doi.org/10.1145/2212776.2212403>
- W.6 **Keegan, B.*** (2012). “Breaking News on Wikipedia: Dynamics, Structures, and Roles in High-Tempo Collaboration.” Doctoral Consortium, In *Proceedings of 2012 ACM Conference on Computer-Supported Cooperative Work (CSCW)*, 315–318. ACM. <https://doi.org/10.1145/2141512.2141609>
- W.5 **Keegan, B.*** (2012). “Breaking News on Wikipedia: Dynamics, Structures, and Roles in High-Tempo Collaboration.” Doctoral Consortium, In *Proceedings of the 2012 iConference*. Toronto, Canada.
- W.4 **Keegan, B.**,* Ahmad, M.A.,* Sullivan, S.,* Williams, D., Srivastava, J., & Contractor, N. (2011). “Untangling Dark Webs: Theories, Methods, and Models for a Computational Social Science of Clandestine Networks.” In *Proceedings of Third IEEE International Conference on Social Computing*. Boston, MA, USA.
- W.3 **Keegan, B.*** (2011). “Breaking News on Wikipedia: Dynamics, Structures, and Practices of High-Tempo Collaboration.” Doctoral Symposium, In *Proceedings of the Seventh International Symposium on Wikis and Open Collaboration*. Mountain View, CA, USA.
- W.2 **Keegan, B.*** (2011). “Breaking News on Wikipedia: Dynamics, Structures, and Practices of High-Tempo Self-Organized Collaboration.” 2011 Social Computational Systems Workshop. Minneapolis, MN, USA.
- W.1 Ettema, J., Fullerton, L.,* **Keegan, B.**,* Menchen-Trevino, E.,* & Sandvig, C. (2009). “Listening for the Wisdom of Crowds: New Media and New Forms of Knowledge.” 2009 International Communication Association. Chicago, IL, USA.

Invited talks and lectures

- T.22 Citizen and Elite Activity on Wikipedia, Hertie School of Governance. Berlin, Germany. 14–15 December 2017.
- T.21 Peer Production Engagement Patterns, Tandon School of Engineering, New York University. Brooklyn, New York. 8–9 September 2017.
- T.20 Gendered Creative Teams Workshop, Central European University. Budapest, Hungary. 25–26 May 2017.
- T.19 Department of Computer Science, KAIST. Daejeon, South Korea. 29–30 April 2017.
- T.18 Neukom Institute, Dartmouth College, Hanover, New Hampshire. 13–14 May 2017.
- T.17 ISAT/DARPA Symbiotic Architecture for Social Simulation, University of Southern California. Los Angeles, California. 28–29 October 2016.
- T.16 Symposium on Technology-based Cooperation, Leibniz-Institute für Wissensmedien, Tübingen, Germany. 2–3 June 2016.
- T.15 Department of Communication, University of California, Davis. 12 May 2016.
- T.14 Neukom Institute, Dartmouth College. Hanover, New Hampshire. 7–8 April 2016.

- T.13 AI Seminar, Information Sciences Institute, University of Southern California. Marina del Rey, California. 25 March 2016.
- T.12 Department of Data Science and Operations, USC Marshall School of Business. Los Angeles, California. 4 December 2015.
- T.11 Department of Human-Centered Design and Engineering, University of Washington. Seattle, Washington. 18 November 2015.
- T.10 Workshop on Wikipedia Research, AAAI International Conference on Web and Social Media. Oxford, United Kingdom. 26 May 2015.
- T.9 Computational Social Science Summit, Northwestern University. Evanston, Illinois. 16–17 May 2015.
- T.8 Microsoft Research. Redmond, Washington. 2–3 April 2015.
- T.7 Human-Computer Interaction Institute Colloquium, Carnegie Mellon University. Pittsburgh, Pennsylvania. 3 December 2014.
- T.6 Informatics Institute, University of Missouri. Columbia, Missouri. 7 October 2014.
- T.5 Interdisciplinary Committee on Organizational Studies, University of Michigan. Ann Arbor, Michigan. 12 September 2014.
- T.4 Computational Approaches to Social Modeling, ACM Web Science Conference. Bloomington, Indiana. 24–26 April 2014.
- T.3 Northeast Political Methodology Workshop, New York University. New York, New York. 2 May 2014.
- T.2 Center for Research on Computation and Society, Harvard University. Cambridge, Massachusetts. 10 February 2014.
- T.1 Symposium on User Behavior and Content Generation, Zentrum für Europäische Wirtschaftsforschung. Mannheim, Germany. 8–9 November 2013.

Teaching

- 2022 INFO 3402: Information Exposition (Spring, Fall)
INFO 4613/5613: Network Science (Fall)
- 2021 INFO 3402: Information Exposition (Spring, Redesign)
ARSC 5040: Web Data Scraping (Spring, Mini-course)
INFO 4613/5613: Network Science (Fall, New Course)
- 2020 INFO 3401: Information Exploration (Fall, Redesign)
(Parental leave in Spring)
- 2019 INFO 3402: Information Exposition (Fall and Spring)
ARSC 5040: Web Data Scraping (Spring, New Course, Mini-course)
- 2018 INFO 2201: Computational Reasoning 2 (Spring)
INFO 3402: Information Exposition (Spring, New Course)
INFO 3501/5501: Peer Production and Crowdsourcing (Fall)
- 2017 INFO 2201: Computational Reasoning 2 (Spring, New Course)
- 2016 INFO 3501/5501: Peer Production and Crowdsourcing (Fall, New Course)

Press
coverage

- 2022 Cleveland, C. “10 years of recreational cannabis research: What we’ve learned and what’s still unknown.” *Colorado Matters*. 30 November 2022. <https://www.cpr.org/2022/11/30/colorado-recreational-cannabis-research/>
- Keegan, B. “What is Mastodon? A social media expert explains how the ‘federated’ network works and why it won’t be a new Twitter.” *The Conversation*. 11 November 2022. <https://theconversation.com/what-is-mastodon-a-social-media-expert-explains-how-the-federated-network-works-and-why-it-wont-be-a-new-twitter-194329>
- Keegan, B. “Opposition to even-year elections is grounded in vibes, not evidence.” *Daily Camera*. 14 October 2022. <https://www.dailycamera.com/2022/10/14/guest-opinion-brian-keegan-opposition-to-even-year-elections-is-grounded-in-vibes-not-evidence/>
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- 2021 Pasternack, A. “How 9/11 turned a new site called Wikipedia into history’s crowdsourced front page.” *Fast Company*. 11 September 2021. <https://www.fastcompany.com/90674998/how-9-11-turned-a-new-site-called-wikipedia-into-historys-crowdsourced-front-page>
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- 2020 Geoghegan, C. “As Colorado Jumps Into New Marijuana Businesses, Boulder Stays Still.” *Westword*. 28 December 2020. <https://www.westword.com/marijuana/boulder-stays-still-colorado-jumps-into-new-marijuana-businesses-11855744>
- Keegan, B. “Opinion: Colorado’s cannabis businesses may regret opting for delivery.” *The Colorado Sun*. 18 December 2020. <https://coloradosun.com/2020/12/18/cannabis-delivery-opinion/>

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- 2015 Rogers, A. “Google’s Search Algorithm Could Steal the Presidency.” *WIRED*. August 6, 2015. <http://www.wired.com/2015/08/googles-search-algorithm-steal-presidency/>
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Service to university	SU.13 Faculty affairs committee, Information Science.	2021 – present
	SU.12 Faculty search committee, Information Science.	2020 – 2021
	SU.11 Undergraduate curriculum committee, Information Science.	2019 – 2021
	SU.10 <i>Ad hoc</i> committees on data analytics curricula.	2016 – 2018
	SU.9 Graduate student liasion, Information Science.	2018 – 2019
	SU.8 Faculty search committee, Information Science.	2017 – 2018
	SU.7 Reviewer, Research & Innovation Office Seed Grants.	2018
	SU.6 Exploratory committee for game studies, CMCI.	2017 – 2018
	SU.5 "One College" committee, CMCI.	2017 – 2018
	SU.4 Computational & quantitative curriculum design, Information Science.	2017 – 2021
	SU.3 <i>Ad hoc</i> budget modeling & office design, Information Science.	2016 – 2017
	SU.2 Faculty search committee, Journalism.	2016 – 2017
SU.1 CHI 2017 reception co-organizer, CMCI.	2016 – 2017	

Service to profession	SP.20 Associate Chair, Program Committee, ACM CSCW.	2016 – present
	SP.19 Program Committee, Int'l. Conf. on Comp. Social Science (IC2S2).	2016 – present
	SP.18 Senior Program Committee, AAI ICWSM.	2014 – present
	SP.17 Panelist, NSF CISE.	2021
	SP.16 Reviewer, Swiss NSF.	2020
	SP.15 Associate Chair, Program Committee, ACM CHI.	2016 – 2018
	SP.14 Program Committee, Int'l Conf. on the World Wide Web (WWW).	2015 – 2018
	SP.13 Panelist, NSF CISE.	2018
	SP.12 Workshops Co-Chair, ACM CSCW.	2018
	SP.11 Program Co-Chair, Int'l. Conf. on Comp. Social Science (IC2S2).	2017
	SP.10 Workshops Co-Chair, AAI ICWSM.	2017
	SP.9 Program Committee, Int'l. Conf. on Network Science (NetSci).	2017
	SP.8 Panelist, NSF CISE.	2017
	SP.7 Publicity Co-Chair, Int'l. Conf. on Social Informatics (SocInfo).	2016
	SP.6 Program Committee, Int'l. Conf. on Social Informatics (SocInfo).	2014 – 2016
	SP.5 Program Committee, Int'l. Symp. on Open Collaboration (OpenSym).	2013 – 2016
	SP.4 Publicity Co-Chair, ACM CSCW.	2015
	SP.3 Publicity Co-Chair, AAI ICWSM.	2014
	SP.2 Steering Committee, ACM CSCW.	2012 – 2013
SP.1 Student Volunteer Co-Chair, ACM CSCW.	2013	
Service to public	SC.4 Board member, Cannabis Licensing & Advisory Board, City of Boulder.	2020 – present
	SC.3 Board member, Industrial Hemp Research Foundation.	2019 – present
	SC.2 Mentor, CanopyBoulder.	2017 – 2019
	SC.1 Panelist, Cannabis Science and Policy Workgroup, CDPHE & MED.	2018 – 2019
Research supervision	Post-doctoral researchers	
	• C. Estelle Smith	2021 – 2022
	Ph.D students, primary or co-advisor	
	• Leo Orozco, Ecology and Evolutionary Biology (with N. Kane)	2021 – present
	• H. Laurie Jones, Information Science (with A. Siegel)	2021 – present
	• Samantha Dalal, Information Science	2020 – present
	• Katy Weathington, Information Science (with J. Brubaker)	2020 – 2021
	• Jordan Wirfs-Brock, Information Science (with L. Devendorf)	2017 – 2022
	• Alicia Boyd, Computer Science, DePaul University (with J. Furst)	2017 – 2021
	• Xiaozhe 'Arcadia' Zhang, Computer Science	2016 – 2021
	Ph.D students, dissertation committee member	
	• Mikhaila Friske, Information Science	2023
	• Anthony Pinter, Information Science	2022
	• Ang Li, University of Pittsburgh	2021
	• Patrick Gildersleve, Oxford Internet Institute	2021

- Aaron Jiang, Information Science 2020
- Wendy Norris, Information Science 2020
- Martina Balestra, NYU Tandon 2019
- Angelica Kalika, Journalism 2019
- Joseph Zamadics, Political Science 2019
- Melissa Bica, Computer Science 2019
- T. Jennings Anderson, Computer Science 2019
- Nora Connor, Computer Science 2017
- Abigail Jacobs, Computer Science 2017
- Sam F. Way, Computer Science 2017

Masters students, supervisor

- Emily Porter, ATLAS M.S. 2018
- Jacob Mink, Applied Math M.S. 2017

Undergraduate students

- Gale Prinster, Sociology 2021 – 2022
- Vikki Wong, Marketing 2021
- William Egesdal, Computer Science 2021
- Tamer Shahwan, Computer Science 2021
- Zachary Girard, Evolutionary Biology 2021
- Andrew Gelfman, Computer Science 2018 – 2019
- Zack Salama, Computer Science 2018 – 2019
- Jack Sandberg, Information Science 2019
- Alejandro Camarago, Political Science 2018
- Joshua Edelmann, Political Science 2018
- Simon Furney, Political Science 2018
- Emma Lynch, Political Science 2018
- Sphia Tupper, Political Science 2018
- Suzannah Ranzo, Political Science 2017 – 2018
- Chelsea Campana, Political Science 2017 – 2018
- Henry Bowditch, Political Science 2017 – 2018
- Robert Reedy, Political Science 2017 – 2018

Consulting

Colvin Run Networks

Consultant

Arlington, Virginia

2019 – 2022

Center for Media, Data and Society

External consultant

Budapest, Hungary

2015 – 2016

Ninja Metrics

Affiliated researcher

Los Angeles, CA

2011 – 2014

Science and Technology Policy Institute

External consultant

Washington, D.C.

2011

Skills	Programming	Python, R
	Data analysis	statsmodels, pandas, scikit-learn, Stata
	Databases	MySQL, PostgreSQL, sqlite, Neo4j, MongoDB
	Network analysis	networkx, Gephi, statnet, PNET, NodeXL
	Data visualization	matplotlib, seaborn, ggplot2, Gephi, vega-lite, altair
	Web development	HTML, CSS, Bootstrap, WordPress, Jekyll, Flask, Django