

## Joshua Becker

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### APPOINTMENTS

- UCL School of Management, University College London** Since 2020  
Assistant Professor, Organizations & Innovation Group
- Northwestern University, Kellogg School of Management** 2018–2020  
Postdoctoral Fellow, Management and Organizations Department  
Researcher in Residence, Northwestern Institute on Complex Systems

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### EDUCATION

- PhD, Annenberg School for Communication, University of Pennsylvania** 2018  
*Dissertation:* The Network Dynamics of Social Influence in the Wisdom of Crowds  
*Committee:* Damon Centola (chair), Sandra Gonzalez-Bailon, Michael Delli-Carpini
- MA, Annenberg School for Communication, University of Pennsylvania** 2015  
*Thesis:* Network Structure and the Quality of Collective Decisions
- BA Liberal Arts, St. Johns College, Annapolis** 2008

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### PUBLICATIONS

- Becker, J.,** Smith, E.B. (2019). For crowdsourcing to work, everyone needs an equal voice. Harvard Business Review. Published online July 30<sup>th</sup>, 2019.
- Becker, J.,** Porter, E., & Centola, D. (2019). The wisdom of partisan crowds. Proceedings of the National Academy of Sciences, 116(22), 10717-10722.
- Centola, D., **Becker, J.,** Brackbill, D., & Baronchelli, A. (2018). Experimental evidence for tipping points in social convention. Science, 360(6393).
- Guilbeault, D., **Becker, J.,** & Centola, D. (2018). Social learning and partisan bias in the interpretation of climate trends. Proceedings of the National Academy of Sciences, 115(39).
- Guilbeault, D., **Becker, J.** & Centola, D. (2018). Complex contagions: a decade in review. In Yong Yeol Ahn & Sune Lehmann (Eds.) *Spreading Dynamics in Social Systems*. Springer Nature.

**Becker, J.**, Brackbill, D., & Centola, D. (2017). The network dynamics of social influence in the wisdom of crowds. Proceedings of the National Academy of Sciences, *14* (26).

Zhang, J., Brackbill, D., Yang, S., **Becker, J.**, Herbert, N., & Centola, D. (2016). Support or competition? How online social networks increase physical activity: A randomized controlled trial. Preventive Medicine Reports, *4*, 453-458.

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#### PAPERS UNDER REVIEW

**Becker, J.**, Guilbeault, D., & Smith, E.B. The crowd classification problem. *Revise and Resubmit at Management Science*. (Available on website.)

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#### PAPERS IN PREPARATION

**Becker, J.** Network Structures of Collective Intelligence: The Contingent Benefits of Group Discussion. *Target: Academy of Management Journal*. (Available on website.)

**Becker, J.** The network dynamics of social and technological conventions. *Target: Social Networks*. (Available at <https://arxiv.org/abs/2003.12112> )

Guilbeault, D. **Becker, J.** & Woolley, S. Nuance matters: collective intelligence dynamics in the spread of misinformation.

Centola, D., **Becker, J.**, Zhang, J., Guilbeault, D. Social learning improves clinical diagnostic accuracy.

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#### HONORS AND AWARDS

Best Paper, *Computational Methods Section of the International Communication Association*, 2019. (For: The network dynamics of social and technological conventions.)

Best Paper (Honorable Mention), *Mathematical Sociology Section of the American Sociological Association*, 2019. (For: Experimental evidence for tipping points in social convention.)

Best Paper (Honorable Mention), *Mathematical Sociology Section of the American Sociological Association*, 2018. (For: The network dynamics of social influence in the wisdom of crowds.)

Best Paper, *International Conference on Computational Social Science*, 2018. (For: Social learning and partisan bias in the interpretation of climate trends.)

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**FUNDING & FELLOWSHIPS**

*A Network Solution to Groupthink.* (\$2,500). Dispute Resolution Research Center, 2018.

*The Collective Intelligence Dynamics of Fake News.* (\$20,000). Institute for the Future, 2018.  
With D. Guilbeault.

*Can Social Influence Improve Financial Forecasting?* (\$2,500). Russell Ackoff Doctoral Fellowship, Wharton Risk Center, 2017.

*Harnessing the Wisdom of Crowds to Increase Political Knowledge.* (\$7,800) Russell Sage Foundation grant through Summer Institute for Computational Social Science, 2017. With E. Porter.

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**INVITED TALKS**

- 2019 Computational Social Science Seminar, University of Chicago  
Northwestern Institute on Complex Systems Seminar Series  
Summer Institute in Computational Social Science, Chicago Partner Site  
The Knowledge Lab, University of Chicago  
Computational Social Science Seminar, University of Pennsylvania  
Civic Capital and Democratic Institutions Group, Northwestern University  
Media, Technology, & Society Seminar, Northwestern University
- 2018 Duke Network Analysis Center, Duke University  
Computing and Digital Media Research Symposium, DePaul University  
ASA Preconference on Computational Sociology, Philadelphia  
Crowdsourcing and Collective Intelligence Workshop, Boston  
Human Cooperation Lab, Yale University  
Human Dynamics Group, MIT Media Lab
- 2016 Penn Network Visualization Program, University of Pennsylvania

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**CONFERENCE PRESENTATIONS**

- 2019 Academy of Management Annual Meeting (x2 Presentations)  
INFORMS Annual Meeting, Seattle, WA  
International Communication Association, Washington, DC (x3 Presentations)  
Collective Intelligence Conference, Pittsburgh, PA (x2 Presentations)  
Int'l Conference on Computational Social Science, Amsterdam (x2 Presentations)
- 2018 INFORMS Annual Meeting, Phoenix, AZ  
American Sociological Association, Philadelphia, PA (x3 presentations).  
International Conference on Computational Social Science, Chicago, IL  
CompleNet Conference, Boston, MA
- 2017 Wharton Innovation Doctoral Symposium, Wharton School, Philadelphia, PA

- American Sociological Association, Montreal, Canada  
International Conference on Computational Social Science, Cologne, Germany  
2016 International Conference on Computational Social Science, Chicago, IL  
Collective Intelligence Conference, New York, NY  
2015 Computational Social Science Summit, Chicago  
Workshop on Information and Networks, New York, NY  
NetSci Conference, Zaragoza, Spain

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**TEACHING EXPERIENCE**

- 2019–2020      Lecturer. Kellogg School of Management.  
Negotiations Fundamentals, Management and Organizations Dept.  
  
Teaching Assistant to Hyejin Youn, Kellogg School of Management  
*MBA Course: Social Dynamics and Network Analysis*
- 2018–2019      Curriculum design & lecturer  
Summer Institute in Computational Social Science Chicago Partner Site
- 2016–2017      Teaching assistant and curriculum designer for Damon Centola  
*Online course: The Network Dynamics of Social Behavior*
- 2015              Teaching Assistant for Sandra Gonzalez-Bailon, University of Pennsylvania  
*Undergraduate course: Big Data and Social Networks*
- 2008–2013      Skills Trainer, communication and conflict resolution strategies  
*Community Mediation Maryland, Kimmel Center Philadelphia*

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**ADDITIONAL TRAINING**

- 2008–2019      Negotiations Fundamentals (Northwestern University), Basic Mediation  
(Northwestern University), Mediation Mentorship Program (Chicago Center  
for Conflict Resolution), Advanced Mediation Training (Community  
Mediation Maryland)
- 2017              Summer Institute in Computational Social Science, Princeton University

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**PROFESSIONAL SERVICE**

- Awards Committee (2019), Mathematical Sociology Section, American Sociological Assn.  
  
Organizer (2018), Advisory Committee (2019), Summer Institute in Computational Social  
Science Chicago Partner Site.

Program committee for International Conference on Computational Social Science (2019), NetSciX Conference (2018).

Organizing Committee, Datathon Chair, International Conference on Computational Social Science, Northwestern University, July 2018.

Organizing Committee Member, Graduate Student Symposium, Annenberg School for Communication, University of Pennsylvania, April 2018.

Editorial team member (reviewer), Journal of Social Computing.

Guest editor, PNAS.

Ad-hoc reviewer for: Administrative Science Quarterly, Organization Science, American Journal of Sociology, Int. J. of Information Systems, Poetics, Academy of Management Annual Meeting, Science Advances, Nature Human Behavior, PNAS, PLoS One, Comm. Methods and Measures, Scientometrics, Intl. Conference on Computational Social Science, Intl. Comm. Association Annual Conference, International Journal of Environmental Research and Public Health.