

# Eamon Duede

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## Education

Ph.D. Philosophy & Ph.D. History and Philosophy of Science, *University of Chicago*, 2017 - 2021 (expected)  
*Department of Philosophy & Committee on Conceptual and Historical Studies of Science*, (Joint Ph.D.)

M.A. Humanities (Philosophy), *University of Chicago*, 2008 - 2011

B.A. Philosophy (w/ honors), *Loyola University Chicago*, 2003 - 2007

## Research Fields

Philosophy of Science | Computational Social Science | Machine Learning & Artificial Intelligence

## Peer Reviewed Journal Articles

Feng Shi, Misha Teplitskiy, Eamon Duede, and James A. Evans. "The Wisdom of Polarized Crowds." *Nature Human Behavior*, 2019

**Media Coverage:** *Scientific American*, *Harvard Business Review*, *Nature*, *Nautilus*, *New Scientist*, *Daily Mail*

Eamon Duede and Victor Zhorin. "Convergence of Economic Growth and the Great Recession as Seen From a Celestial Observatory." *EPJ Data Science*, 2016

**Media Coverage:** *UChicago News*

Misha Teplitskiy, Grace Lu, and Eamon Duede. "Amplifying the Impact of Open Access: Wikipedia and the Diffusion of Science." *Journal of the Association for Information Science and Technology*, 2016

**Winner: Best Student Paper**, 2015, *Association for Information Science & Technology*, special interest group for *Measurement of Information Production & Use*

**Media Coverage:** *MIT Tech Review*, *LSE Impact Blog*

## Peer Reviewed Conference Proceedings

Yadu Babuji, Kyle Chard, Eamon Duede, and Ian Foster. "Safe Collections and Stewardship on Cloud Kotta." *Safe Data '17 workshop at IEEE eScience '17*, 2017

Yadu Babuji, Kyle Chard, and Eamon Duede. "Enabling Interactive Analytics of Secure Data using Cloud Kotta." *Science Cloud '17 workshop at ACM International Symposium on High-Performance Parallel and Distributed Computing*, 2017

Yadu Babuji, Kyle Chard, Aaron Gerow, and Eamon Duede. "Cloud Kotta: Secure and Scalable Data Analytics in the Cloud." *IEEE BigData '16*, 2016

Yadu Babuji, Kyle Chard, Aaron Gerow, and Eamon Duede. "A Secure Data Enclave and Analytics Platform for Social Scientists." *IEEE eScience '16*, 2016

Misha Teplitskiy, Grace Lu, and Eamon Duede. "The Transmission of Scientific Knowledge to Wikipedia." *International Association for the Advancement of Artificial Intelligence Conference on Weblogs and Social Media (ICWSM'15 Oxford, UK)*, 2015

Aaron Gerow, Bowen Lou, Eamon Duede, and James A. Evans. "Classification and Link Prediction in a Text-Mined Hypergraph of Academic Relationships." *SocInfo '15*, 2015

## Work in Progress

"Can an Algorithm Diagnose Cancer?" (*Working Paper*)

"Depths of Field in the System of Science" (*Working Paper*)

With Ashwin Aggarwal (Berkeley) and Misha Teplitskiy (Harvard) "Distance Matters in Science and Scholarship" (*Working Paper*)

With Misha Teplitskiy (Harvard) and Karim R. Lakhani (Harvard): "Do Citations Measure Influence?" (*Working Paper*)

**Media:** *Times Higher Education*

With James A. Evans (Chicago): "Social Syllogisms Drive the Logic of Scientific Advance" (*Working Paper*)

## Honours, Awards, Grants

(Co-PI) *Engineering Opportunity: Identifying optimal skill and relationship mixtures for individual, enterprise, and regional prosperity.* w/ James Evans, Lingfei Wu, Matt Gee, 2019 (\$50,000)

(Co-PI) *When Technology Transforms Society: Considering the Societal and Ethical Impacts of Quantum Computing and AI.* w/ Chihway Chang, Daniel Bowring, Brian Nord, 2019 (\$15,000)

LinkedIn Economic Graph Research Awardee 2017

Fishbein Fellowship 2017 - 2022

University of Chicago Social Sciences Fellowship 2017 - 2020

**Winner: Best Student Paper**, 2015, *Association for Information Science & Technology*, special interest group for *Measurement of Information Production & Use* for "Amplifying the Impact of Open Access: Wikipedia and the Diffusion of Science."

Amazon Research Award 2015 (\$50,000)

Departmental Honors B.A. in Philosophy, *Loyola University of Chicago*

## Refereed Conference & Workshop Presentations (Selected)

"Do Citations Measure Influence?", *17th International Conference on Scientometrics & Informetrics*, Rome, Italy, 2019

"What do Citations Measure?" *Innovation Growth Lab*, Berlin, Germany, 2019

"Why (almost) Everything We Know About Citations is Wrong: Evidence from Authors", *23rd International Conference on Science and Technology Indicators (STI 2018)*, Leiden, Netherlands, 2018

"Social Syllogisms Drive the Logic of Scientific Advance", *Workshop in the History and Philosophy of Science*, University of Chicago, Chicago, IL., 2018

"How We Cite, and What It Means for Measuring the Value of Science: Survey Evidence from 12,000 Authors", *Laboratory for Innovation Science*, Harvard University, Cambridge, MA., 2018

"Why Citations Don't Mean What We Think They Mean: Evidence from Citers", *4th Annual International Conference on Computational Social Science*, Northwestern University, Evanston, IL., 2018

"The Wisdom of Polarized Crowds", *4th Annual International Conference on Computational Social Science*, Northwestern University, Evanston, IL., 2018

"Do Citations Measure Influence?", *MIT Economic Sociology Working Group*, MIT, Cambridge MA., 2017

"Wisdom of Politically Polarized Crowds", *Meeting of the Society for the Social Studies of Science (4S)*, Boston, 2017

"Wisdom of Polarized Crowds", *Collective Intelligence Conference*, NYC, 2017 (Poster)

"Convergence of Economic Growth and the Great Recession as Seen From a Celestial Observatory", *Mind Bytes 2017*, Chicago, 2017 (Poster)

"Amplifying Open Access: Wikipedia and the Diffusion of Science", *Quantifying Science* a workshop at the *Conference on Complex Systems*, Tempe, 2015

"Proposing Links in a Mined Hypergraph of Academics", *110th Annual Meeting of the American Sociological Association*, Chicago, 2015

"The Transmission of Scientific Knowledge to 50 Wikipedias: Coverage and the Role of Accessibility", *9th International Conference on Web and Social Media*, Oxford University, Oxford, UK., 2015

## Invited Talks & Panels

"Word Embedding with Python" *Data Therapy*, University of Chicago, 2019

"Model Realism and Theory Detection" *Center for Data Science and Computing Research*, University of Chicago, 2019

"Roads of Influence" *Laboratory for Innovation Science*, Harvard University, 2019

"Model Realism and Theory Detection" *Environmental Data Science Seminar Series*, University of Chicago, 2019

"The Wisdom of Politically Polarized Crowds" *Center for Data Science and Computing Research*, University of Chicago, 2018

"Big Data, Innovation, and Insights into the Complexities of the Scientific Enterprise" at *Science Works: Measuring the Innovation Output of Science*, Netherlands, 2017

"Hacking the Web of Science" at *ALA 2017*, Chicago, 2017

"The Wisdom of Politically Polarized Crowds" at *WikiCite 2017*, Vienna, Austria, 2017

Panelist "Co/Eval" at *Converge: Disciplinarity and Digital Scholarship*, Los Angeles, 2017

Panel Moderator "Computation and analytics are driving innovation across disciplines in new and interesting ways" at *Mind Bytes 2017*, Chicago, 2017

"Computational Social Science" at *Research Computing Center*, University of Chicago, 2017

"Delphi: Leveraging Research Analytics to Understand and Navigate the Research Enterprise", *The John Templeton Foundation*, Philadelphia, 2016

"Toward a Theory of Peer Review", *PLOS*, San Francisco, 2016

"Science of Peer Review", *PLOSCast*, San Francisco, 2016

"Science of Science", *PLOSCast*, Berlin, Germany, 2016

"Data and Machine Enabled Science", *Globus World*, Argonne National Lab, 2015

"A Search for Knowledge About Knowledge", *Center for Robust Decision Making on Climate and Energy Policy*, University of Chicago, 2014

"Knowledge Lab", *Computation Institute Student Engagement Lightning Talk*, University of Chicago, 2013

## Other Writing

"Finding Wisdom in Politically Polarized Crowds", *Nature: Behind the Paper*, 2019

"Are Politically Diverse Teams More Effective?", w/ Feng (Bill) Shi, Misha Teplitskiy, and James A. Evans, *Harvard Business Review*, 2019

"Wikipedia is significantly amplifying the impact of Open Access publications", *The London School of Economics: Impact Blog*, 2015

## Teaching & Advising

Modern Logic and the Structure of Knowledge (TA), *University of Chicago*, (Winter 2020)

Elementary Logic (TA), *University of Chicago*, (Fall 2019)

Philosophy of Quantum Mechanics (TA), *University of Chicago* (Winter 2019)

Computer Science Graduate Practicum Advisor, *University of Chicago* (2014 - 2017)

Elementary Logic (Instructor), *Harold Washington College* (2011, 2012, 2013)

Introduction to Philosophy (Instructor), *Harold Washington College* (2011, 2012, 2013)

Introduction to Ethics (Instructor), *Harold Washington College* (2011, 2012, 2013)

## Media Coverage of Research

"Finding Wisdom in Politically Polarized Crowds", *Nature: Behind the Paper*, 2019

"Are Politically Diverse Teams More Effective?", *Harvard Business Review*, 2019

"Wikipedia and the Wisdom of Polarized Crowds: A lesson in how to break out of filter bubbles", *Nautilus*

"The Wisdom of Crowds Requires the Political Left and Right to Work Together", *Scientific American*

"Wikipedia encourages healthy debate among people with different political views", *Daily Mail*, 2019

- "Wikipedia's civil wars show how we can heal ideological divides online", *New Scientist*, 2019
- "Academics cite work they don't know particularly well", *Times Higher Education*, 2018
- "Testing Economics From the Celestial Observatory", *UChicago News*, 2016
- "Science of Peer Review", *PLOSCast*, 2016
- "Science of Science", *PLOSCast*, 2016
- "The Impact of Open Access Scientific Knowledge", *Brookings TechTank*, 2016
- "Why Wikipedia + Open Access = Revolution", *X<sub>b</sub> MIT Technology Review*, 2015
- "Wikipedia, open access and knowledge dissemination", *OpenScience.com*, 2015
- "Wikipedia is significantly amplifying the impact of Open Access publications", *The London School of Economics: Impact Blog*, 2015

## Professional Service

- Co-Organized with Chihway Chang, Daniel Bowring, Brian Nord: "When Technology Transforms Society: Considering the Societal and Ethical Impacts of Quantum Computing and AI" *Workshop*, Chicago, 2019
- Co-Director with Kyle Chard of the *Data and Computing Summer Lab*, 2019
- Coordinator, "Seminar on Important Things", *Committee on the Conceptual and Historical Studies of Science*, University of Chicago, 2018 - 2019
- Special Advisor, *University of Chicago Research Development Services*, 2017 - Present
- Special Advisor, *ARETE*, University of Chicago, 2014 - 2017
- Co-Director with Kyle Chard and Alison Brizius of the *Computation Institute Summer Internship Program*, 2014 - 2018
- Co-Organized with Ian Foster and Julia Lane: "Safe data: A workshop on paradigms and platforms for safe analysis of sensitive data", a one day workshop at *eScience2017*, Auckland, New Zealand, 2017
- Co-Organized with Feng Shi and Valentin Danchev: "Knowledge Networks in Science and Technology", a Satellite Symposium at *NetSci 2017*, Indianapolis, 2017
- Co-Organized with Rayid Ghani and Joe Walsh: "Computational Social Science & Public Policy Colloquium", a monthly speaker series co-organized with *Knowledge Lab the Center for Data Science & Public Policy*, Chicago, 2017
- Chicago Innovation Exchange Advisory Group, 2013 - 2016
- Co-Organized with Katy Börner and James Pringle: "Web of Science as Research Dataset", a two-day workshop organized with *Thomson Reuters*, Bloomington, 2016
- Co-Organized "B<sup>3</sup>: Big Questions, Big Data, Big Computation", a joint conference with *Microsoft Research*, Chicago, 2016
- Co-Organized with James A. Evans and Dashun Wang: "International Symposium on the Science of Science", a two-day conference held at the *Library of Congress*, Washington D.C., 2016

Organized "About Discovery Engines: Under the Hood", a monthly workshop series at the *University of Chicago's Computation Institute*, 2015 - 2016

Co-Organized, "Information, Interaction, and Influence", a two-day workshop co-organized with *Knowledge Lab* and *Digital Science* at the University of Chicago, 2014

Co-Organized with *hack@uchicago*, "Fall 2014 Hackathon", a two-day, data science focused, event featuring tools and techniques workshops. Chicago, 2014

Co-Organized "In the Loop: A City Data and Digital Manufacturing STEM Learning Project", a 6 week course on computer programming, data analysis, and digital fabrication for Chicago high school students. Chicago, 2014

## Peer Review(er)

Proceedings of the National Academy of Sciences

## Languages

Natural: English (Native), German (Working)

Multi-paradigm: Python, R

## Mentorship

Grace Lu, now at Uber self-driving car unit

Cody Braun, now at IBM Watson

Bowen Lou, now at Wharton (Ph.D. Operations, Information and Decisions)

Nathan Bartley, now at University of Southern California (Ph.D. Computer Science)

## Other Employment

Special Advisor, Knowledge Lab, *University of Chicago*, 2017 - Present

Founder, Philosophic Ai, 2015 - Present

Executive Director, Knowledge Lab, *University of Chicago*, 2013 - 2017

Co-Founder and CTO, Practice Prism, 2015 - 2017

Administrator, *The Metaknowledge Research Network*, 2013 - 2016

Sr. Director, *HR-Meter International*, 2007 - 2013

Instructor of Philosophy, *Harold Washington College*, 2012 - 2013

## References

Available upon request

Last updated: recently enough...