Eamon Duede

Purdue University
West Lafayette, IN., 47907

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Academic Appointments

Purdue University
Assistant Professor, 2024 - Present
Department of Philosophy

Argonne National Laboratory
Joint Appointment, 2024 - Present
Data Science and Learning Division (DSL)

Harvard University
Postdoctoral Fellow, 2023 - 2024
Digital Data Design Institute
Embedded EthiCS (Departments of Philosophy & Computer Science)

Education

University of Chicago
Ph.D. Philosophy & Ph.D. Conceptual and Historical Studies of Science, 2017 - 2023 (with Honors)
(Joint PhD) Department of Philosophy & Committee on Conceptual and Historical Studies of Science

Fellow, AI-enabled Molecular Engineering of Materials and Systems for Sustainability, 2021 - 2023
Pritzker School of Molecular Engineering

A.M. Humanities (Philosophy), 2008 - 2011

University of Cambridge
Visiting Student, Spring 2023
Leverhulme Centre for the Future of Intelligence

Loyola University Chicago
B.A. Philosophy, 2003 - 2007 (with Honors)

Affiliations

University of Chicago, *Committee on Conceptual & Historical Studies of Science*, Affiliated Faculty, 2025—

University of Chicago, *Knowledge Lab*, Affiliated Faculty, 2024—

Scholarly Publications

James Evans & Eamon Duede. *"After Science."* *Science*, 2025 (Forthcoming)

Eamon Duede & Kevin Davey. "Apriori Knowledge in an Era of Computational Opacity: The Role of AI in Mathematical Discovery." *Philosophy of Science*, 2025

Patrick Sui, Eamon Duede, Sophie Wu, & Richard Jean So. "Confabulation: The Surprising Value of Large Language Model Hallucinations." *Association for Computational Linguistics* (*ACL*) *'24*, 2024

Eamon Duede & Richard Jean So. "A Humanistic Case for AI Optimism" *Poetics Today*, 2024

Eamon Duede, Misha Teplitskiy, Karim R. Lakhani, & James A. Evans. "Being Together in Place as a Catalyst for Scientific Advance" *Research Policy*, 2024
Media Coverage: *HBS Working Knowledge*

Eamon Duede. "Deep Learning Opacity in Scientific Discovery" *Philosophy of Science*, 2023

Zhi Hong, J. Gregory Pauloski, Aswathy Ajith, Eamon Duede, Kyle Chard & Ian Foster. "The Diminishing Returns of Masked Language Models to Science." *Findings of the Association for Computational Linguistics* (*ACL*)*'23*, 2023

Eamon Duede. "Instruments, Agents, & Artificial Intelligence: Novel Epistemic Categories of Reliability" *Synthese*, 2022

Misha Teplitskiy, Eamon Duede, Michael Menietti, and Karim R. Lakhani. "How status of research papers affects the way they are read and cited." *Research Policy*, 2022
Media Coverage: *Times Higher Education, LSE Impact Blog*

Feng Shi, Misha Teplitskiy, Eamon Duede, and James A. Evans. "The Wisdom of Polarized Crowds." *Nature Human Behavior*, 2019
Media Coverage: *CNN, Scientific American, Harvard Business Review, Forbes, Nature, Nautilus, New Scientist, Daily Mail, UChicago News*

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

Yadu Babuji, Kyle Chard, & 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

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*

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

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

Misha Teplitskiy, Grace Lu, & 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, & James A. Evans. "Proposing Ties in a Dense Hypergraph of Academics" *SocInfo '15*, 2015

Book Chapters

Eamon Duede. "The Representational Status of Deep Learning Models." In *The Role of AI in Science: Epistemological and Methodological Studies*, ed Darrell Rowbottom, André Curtis-Trudel, and David Barack. Routledge. (Forthcoming)

Grants, Awards, Honours

(PI) *"AI & Evolving Disciplinary Norms of Inquiry"*, Alfred P. Sloan Foundation, 2025 - 2027 ($250,000)

(PI) *"Eliciting and Measuring the Intellectual Health of Research Fields*, Open Philanthropy, w/ Misha Teplitskiy, 2025 ($50,000)

(Co-PI) *"(Re)designing AI for Diverse Disciplines"*, Alfred P. Sloan Foundation, w/ David Krakauer & Jacob Foster, 2024 ($45,200)

Named "Rising Star in Data Science", *Data Science Institute*, University of Chicago, 2022

Fellow, AI-enabled Molecular Engineering of Materials and Systems for Sustainability, *National Science Foundation*, 2021 - 2023

HiPSS Prize Lectureship, 2022

Fellow, Diverse Intelligences Summer Institute, 2021

(PI) *Latent Knowledge Capture on Covid-19 Literature*, Google, 2020 ($20,000)

(Co-PI) *Engineering Opportunity: Identifying optimal skill and relationship mixtures for individual, enterprise, and regional prosperity*. Center for Data and Computing, 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*. Center for Data and Computing, 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*

Patents

Steven Lehmann, Eamon Duede, and Jeremy Langsam. "Cognition Management System and Methods for Managing Research and Development Activity." US Patent.

Invited Talks, Panels, & Workshops

Plenary: "Epistemic Gaps and the Attribution of (AI) Discovery", *AI and Philosophy*, University of New Orleans, New Orleans, LA., 2026

Keynote: "Collective Abduction and the Future of Science", *International Conference on the Science of Science and Innovation* (ICSSI), Copenhagen, DK, 2025

"Automating Mixed-Agent Science: Considering Cases from Mathematics", *Computational Methods in Science: Implications, limitations, and Promises*, University of Oregon, Eugene, OR., 2025

"Philosophy and AI - New and Open Problems", *Humanistic AI: Reimagining Humanistic Pursuits in the Age of Generated Media*, Neubauer Collegium for Culture and Society, University of Chicago, Chicago, IL., 2025

"AI & Useful Frictions in Science", *ANETI Lab*, Budapest, HU, 2025

"Tail Novelty, Knowledge Collapse, and Useful Frictions in Science", Computer Science Seminar Series, *Illinois Institute of Technology*, Chicago, IL, 2025

"AI and the New Boundaries of Scientific Creativity", *Modern Fiction Studies Conference on Artificial Intelligence*, Purdue University, West Lafayette, IN., 2025

Panelist: "AI in Science", *International Conference on the Science of Science and Innovation* (ICSSI), Copenhagen, DK, 2025

"Automating Mixed-Agent Science: Considering Cases from Mathematics", *AI and the Epistemic Essentials of Science* a closed panel at *50th Annual Meeting of the Society for Social Studies of Science (4S)*, Seattle, USA, 2025

"AI Evaluation in Science: Philosophical Considerations", *Measuring AI in the World*, The Santa Fe Institute, Santa Fe, USA, 2025

"Social abduction and artificial intelligence", *Why the Data Revolution Needs Qualitative Methods*, University of Bremen, Bremen, DE, 2025

Panelist: "AI and the Boundaries of Business" at *Cornerstone for Business Conference*, Purdue University, West Lafayette, IN., 2025

"Current Technical and Conceptual Challenges for AI-Infused Science", *The Role of AI in Science*, Massachusetts Institute of Technology, Cambridge, USA, 2024

"Considering the (Social)Epistemology of Mixed Agent Science", *History, Philosophy, and Science of Science*, University of California, Los Angeles, Los Angeles, CA., 2024

"Deep Learning Opacity in Scientific Discovery", *Department of Philosophy*, University of Oregon, Eugene, OR., 2024 (Virtual)

"Artificial Intelligence as an Occasion for Philosophy", *Department of Philosophy*, Purdue University, West Lafayette, IN., 2024

"Artificial Intelligence as an Occasion for Philosophy", *Department of Philosophy*, The College of William & Marry, Williamsburg, VA., 2024

"After Science: AI and the Aims of Science", *Lingnan / Cambridge conference on the philosophy of AI in science*, University of Cambridge, Cambridge, UK., 2023

"Being Together in Place as a Catalyst for Scientific Advance", *The Emergence of Innovation in New Places*, Mansueto Institute for Urban Innovation, Chicago, IL., 2023

"Epistemics of AI-Infused Science", *Leverhulme Centre for the Future of Intelligence*, University of Cambridge, Cambridge, UK., 2023

"Epistemics of AI-Infused Science", *Department of Philosophy of Science and Technology of Computer Simulation*, High-Performance Computing Center Stuttgart, Stuttgart, DE., 2023

Symposium Paper Commentary: "Functional Psychology and the Computer Model of Mind", by Howard Callaway, *The American Philosophical Association Eastern Division* 119th *Annual Meeting*, Montreal, Quebec, Canada, 2023

"AI in Society: Inductive Risk and the Problem of Value Alignment", *Practical Philosophy Workshop*, University of Chicago, Chicago, IL., 2023

"Optimizing AI for the Human Loop", *Harnessing Data for Materials Symposium*, Chicago, IL., 2022

"Quantifying Scholarly Engagement with Artificial Intelligence", *Parsl & funcXfest 2022*, Chicago, IL., 2022

"Deep Learning Opacity in Scientific Discovery", *The International Philosophy of Biology Working Group*, University of Texas at Austin, 2022 (Virtual due to COVID-19)

"Instruments, Agents, and Artificial Intelligence: Novel Epistemic Categories of Trust", *Theoretical Philosophy Workshop*, University of Chicago, Chicago, IL., 2022

"Being Together in Place as a Catalyst for Scientific Advance", *Seminars in Economic Geography*, 2022 (Virtual due to COVID-19)

Discussant: "Evolution and the Metabolism of Error: Biological Practice as Foundation for a Scientific Metaphysics", by William Wimsatt, *History and Philosophy of Science Workshop*, University of Chicago, 2021 (Virtual due to COVID-19)

Panel Moderator: "Interdisciplinary Data Science Panel" at *Rising Stars in Data Science Workshop*, 2021 (Virtual due to COVID-19)

"Distance Matters in Science and Scholarship", *ParslFest 2020*, 2020 (Virtual due to COVID-19)

"Diverse Intelligences, Distance, & the Logic of Influence", *Crossref*, 2020 (Virtual due to COVID-19)

"Deep Neural Networks and the Philosophy of Science", *Theoretical Philosophy Workshop*, University of Chicago, Chicago, IL., 2020

"Distance Matters in Science and Scholarship", *Laboratory for Innovation Science*, Harvard University, Cambridge, MA., 2020

Discussant: "Horizontal Persistence and the Complexity Hypothesis", by Aaron Novick, *History of Human Sciences*, University of Chicago, 2020

Discussant: "Generative Entrenchment and Modularity", by William Wimsatt, *History of Human Sciences*, University of Chicago, 2020

Discussant: "Affect and Inference: Genealogies of Affect Recognition in AI", by Alex Campolo, *Affect and Emotions Workshop*, University of Chicago, 2020

"Diverse Intelligences, Distance, & the Logic of Influence.", *Workshop in the History and Philosophy of Science*, University of Chicago, Chicago, IL., 2019

"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

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

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

"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: Disciplinarities 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 Lightening Talk*, University of Chicago, 2013

Refereed Conference Presentations

"Collective Creativity in Mixed-Agent Mathematics." 8th *International Meeting of the Association for the Philosophy of Mathematical Practice*, Chapman University, Orange, CA., 2026

"Collective Creativity in Mixed-Agent Science." *Artificial Intelligence and Collective Agency*, Oxford University, Oxford, UK., 2025

"Apriori Knowledge in an Era of Computational Opacity: The Role of AI in Mathematical Discovery." Presented by Kevin Davey at *Philosophy of Science Association* (*PSA 2024*) 29th *Biannual Meeting*, New Orleans, LA., 2024

"Novel (Social)Epistemological Considerations for Mixed-Agent Science" (Symposium Presentation) *Philosophy of Science Association* (*PSA 2024*) 29th *Biannual Meeting*, New Orleans, LA., 2024

"Can an LLM be a Scientist?" Presented by Tom Pashby at *Philosophy of Science Association* (*PSA 2024*) *29th Biannual Meeting*, New Orleans, LA., 2024

"Confabulation: The Surprising Value of Large Language Model Hallucinations.", *The 62nd Annual Meeting of the Association for Computational Linguistics*, Bangkok, TH., 2024

"Novel Epistemological Predicaments for AI-Infused Science", *mrc2024: Models, Representation, and Computation*, Paris, FR., 2024

"Novel Epistemological Considerations for AI-Infused Science", *IACAP2024: International Association for Computing and Philosophy*, Eugene, OR., 2024

"Oil & Water? Diffusion of AI Within and Across Scientific Fields", *ICSSI: International Conference on Science of Science*, Washington DC., 2024

"Epistemic Safety for AI Safety", *SAS23 - Reliability or Trustworthiness?*, Stuttgart, DE., 2023

"Instruments, Agents, and Artificial Intelligence: Novel Epistemic Categories of Reliability", *SAS23 - Reliability or Trustworthiness?*, Stuttgart, DE., 2023

"The Social Abduction of Science", *4S: Society for the Social Studies of Science*, Honolulu, HI., 2023

"Deep Learning Opacity in Scientific Discovery", *The American Philosophical Association Central Division 120th Annual Meeting*, Colloquium Paper, Denver, CO., 2023

"Deep Learning Opacity in Scientific Discovery", *Philosophy of Science Association* (*PSA 2022*) *28th Biannual Meeting*, Pittsburgh, PA., 2022

"Distance Matters in Science and Scholarship", *8th International Conference on Computational Social Science* (*IC^2S^2*), Chicago, IL., 2022

"Accelerating Computational Social Science with ScholarBERT", *8th International Conference on Computational Social Science* (*IC^2S^2*), Chicago, IL., 2022

"Ethical Frameworks for Balancing Bystander Risk with Public Health Priorities in Social Network Research", *Sunbelt 2022*, Cairns, Australia, 2022

"Digital Analogues", *Social Sci Foo*, 2022 (Virtual due to COVID-19)

"Being Together in Place as a Catalyst for Scientific Advance", *Seminars in Economic Geography*, 2022 (Virtual due to COVID-19)

"Being Together in Place as a Catalyst for Scientific Advance", *Networks 2021: A Joint Conference of Sunbelt and NetSci*, 2021 (Virtual due to COVID-19)

"Citations and Impact: Evidence from ground-truth measures of influence", *2020 Bibliometrics and Research Assessment Symposium*, National Institutes of Health, 2020 (Virtual due to COVID-19)

"Distance Matters in Science and Scholarship", *11th Annual International Science of Team Science Conference*, Duke University, Durham, NC, 2020 (Virtual due to COVID-19)

"Deep Neural Networks and the Philosophy of Science", *Overcoming Opacity in Machine Learning*, Society for the Study of Artificial Intelligence and the Simulation of Behaviour (AISB) annual convention, St. Mary's University, London, 2020 (Cancelled due to COVID-19)

"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

"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 Associaton*, 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

Other Publications

"Citation counts reinforce the influence of highly cited papers and nudge us towards undervaluing those with fewer", *The London School of Economics: Impact Blog*, 2022

"Harnessing Polarized Minds", *Nature: After the Paper*, 2020

"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
(**A 'Top Post' of 2015**)

Teaching & Advising

At Purdue University
General Philosophy of Science (Graduate Seminar), Spring 2026
Principles Of Logic, Spring 2026
Transformative Texts Critical Thinking & Communication II: Modern World, 2024, 2025

At Harvard University
(Ethics Module) Discrete Mathematics, Spring 2024
(Ethics Module) Machine Learning, Spring 2024
(Ethics Module) Introduction to Reinforcement Learning, Fall 2023
(Ethics Module) Advanced Topics in Programming Languages, Fall 2023
(Ethics Module) Introduction to Data Science, Fall 2023

At University of Chicago
Sense & Sensibility & Science: Scientific Thinking in a Democracy (Co-Instructor), Spring 2024
The Science and Philosophy of Artificial Intelligence (Designed & Sole Instructor), 2021 - 2022
B.A. Thesis Advisor to Bobby Zhang, 2019 - 2020
Ethics in the Digital Age (TA), Fall 2020
Modern Logic and the Structure of Knowledge (TA), Winter 2020
Elementary Logic (TA), Fall 2019
Philosophy of Quantum Mechanics (TA), Winter 2019
Computer Science Graduate Practicum Advisor, (2014 - 2017)

In the Chicago Community Colleges
Elementary Logic (Designed & Sole Instructor), *Harold Washington College* (2011, 2012, 2013)
Introduction to Philosophy (Designed & Sole Instructor), *Harold Washington College* (2011, 2012, 2013)
Introduction to Ethics (Designed & Sole Instructor), *Harold Washington College* (2011, 2012, 2013)

Professional Service

Program Committee, *Philosophy of Science Association (PSA 2026) 30ᵗʰ Biannual Meeting*, San Diego, CA., 2026

Program Committee, *American Philosophical Association*, Central Division Meeting, Chicago, IL., 2026

Program Committee, *ACM FAccT 2025*, Athens, Greece, 2025

Co-Organized with Jacob Foster and David Krakauer: "(Re)designing AI for Diverse Disciplines" a working group meeting at the *Santa Fe Institute*, Santa Fe, NM, 2024

Co-Organized with Harlin Lee and Rishi Sonthalia: "Networks in Science of Science" a Satellite Symposium at *NetSci 2023*, Vienna, Austria, 2023

Co-Organized with James A. Evans and Rebecca Willett: "Trusted Intelligence in Society Workshop", 2022 - 2023

Co-Organized with Jeff Lockhart, Chris Esposito, and Donghyun Kang: "Social Sciences Bootcamp for Natural Scientists", *Pritzker School of Molecular Engineering*, Chicago, IL., 2023

Special Advisor, *University of Chicago Division of the Social Sciences*, 2021 - 2023

Co-Organized with James A. Evans the "Technology Session" of the *American Sociological Association*, 2021

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

Research Mentor *Data and Computing Summer Lab* & *Computation Institute Summer Internship Program*, 2014 - 2020

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 - 2023

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* and 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^3: 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

Public Philosophy

"Will Robots Dream of Us" with Tom Pashby, *Night Owls*, University of Chicago, 2024

Peer Review(er)

Proceedings of the National Academy of Sciences (PNAS) | Nature Human Behavior | Philosophy of Science | British Journal for the Philosophy of Science (BJPS) | Synthese | Philosophical Quarterly | Minds and Machines | Philosophy & Technology | Philosophy Compass | European Journal for Philosophy of Science (EJPS) | American Journal of Sociology (AJS) | PLoS One | ACM FAccT | Patterns | National Science Foundation (NSF)

Media Coverage of Research

"Called Back to the Office? How You Benefit from Ideas You Didn't Know You Were Missing", *Working Knowledge*, 2024

"Citation counts reinforce the influence of highly cited papers and nudge us towards undervaluing those with fewer", *The London School of Economics: Impact Blog*, 2022

"FAREED'S TAKE: Democrats win with a big tent", *CNN*, 2020

"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_b *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

Technical Skills

Python, R, HPC for Big Data, LaTeX

Languages

Natural: English (Native) | German (Working)

Other Employment

Founder, *Philosophic Ai*, 2015 - Present

Special Advisor, *Knowledge Lab*, University of Chicago, 2017 - 2023

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

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

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

Co-Founder and CEO, *SwiftDates*, LLC., 2012 - 2013

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

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

References

Available upon request