

John Dougherty

CONTACT	Ludwig-Maximilians-Universität München Fakultät für Philosophie, Wissenschaftstheorie und Religionswissenschaft Munich Center for Mathematical Philosophy Geschwister-Scholl-Platz 1 80539 München john.e.dougherty.ii@gmail.com johndougherty.com	
AOS	Philosophy of Physics, Philosophy of Mathematics	
AOC	Logic, Philosophy of Science	
ACADEMIC APPOINTMENTS	Munich Center for Mathematical Philosophy Assistant Professor Postdoctoral Fellow	2021 – present 2018 – 2021
EDUCATION	University of California, San Diego Ph.D., Philosophy Dissertation: Identity in Gauge Theories Committee: Craig Callender (Chair), Nancy Cartwright, David Meyer, Charles Sebens, James Owen Weatherall University of Chicago A.B., Honors, Physics A.B., Honors, History, Philosophy, and Social Studies of Science and Medicine	2018 2010 2010
ARTICLES	Cluster decomposition and two senses of isolability P. D. Williams, J. Dougherty , and M. E. Miller <i>Philosophy of Physics</i> Effective and selective realisms <i>The British Journal for the Philosophy of Science</i> The substantial role of Weyl symmetry in deriving general relativity from string theory <i>Philosophy of Science</i> , 88(5):1149–1160 The non-ideal theory of the Aharonov–Bohm effect <i>Synthese</i> , 198(12):12195–12221 I ain’t afraid of no ghost <i>Studies in History and Philosophy of Science</i> , 88:70–84 The hole argument, take n <i>Foundations of Physics</i> , 50(4):330–347 Large gauge transformations and the strong CP problem <i>Studies in History and Philosophy of Modern Physics</i> , 69:50–66 What inductive explanations could not be <i>Synthese</i> , 195(12):5473–5483 Sameness and separability in gauge theories <i>Philosophy of Science</i> , 84(5):1189–1201	forthcoming 2021 2021 2021 2020 2020 2018 2017
REVIEWS	E. Landry, ed., <i>Categories for the Working Philosopher</i> <i>Philosophy of Science</i> , 88(4) T. Vistarini, <i>The Emergence of Spacetime in String Theory</i> <i>Notre Dame Philosophical Reviews</i>	2021 2020

AWARDS AND FELLOWSHIPS	<i>British Journal of Philosophy of Science</i> Referee of the Year	2023
	LMU Philosophy Student Council Prize for Good Teaching	2023
	James T. Cushing Memorial Prize in History and Philosophy of Physics	2020
	Beyond Spacetime Predoctoral Research Fellow	2017
	Mary B. Hesse Graduate Student Essay Award	2016
	UC San Diego Frontiers of Innovation Scholars Program Fellow	2016
	UC San Diego Philosophy Dept. Graduate Essay Prize	2014
INVITED TALKS	Objectivity, empiricism, and the myth of the given	
	Workshop on Invariance and Objectivity	October 2024
	Gauge theories and the homotopy paradigm	
	Beyond Cosmology Group, University of Geneva	December 2023
	The substantial role of Weyl symmetry in deriving general relativity from string theory	
	Foundations of Observational, Classical and Semi-Classical Gravitational Physics and The Problem of Agency and Laws of Nature, MCOMP	March 2023
	Effective and selective realisms	
	Lichtenberg Group, University of Bonn	May 2022
	On a Limitation of Mapping Accounts of Applicability	
	Mathematical Explanation: Ideas, Models, and Perspectives, IHPST	May 2022
	Some philosophical aspects of the renormalization of gauge theories	
	Higher Structures Emerging from Renormalisation, ESI Vienna	November 2021
	I ain't afraid of no ghost	
	Sigma Club, London School of Economics	March 2021
	Philosophy of Physics Reading Group, Caltech	October 2020
Philosophy of Physics Research Seminar, Oxford	February 2020	
PAPERS PRESENTED	Sellars and <i>The Scientific Image</i>	
	Congress of the International Society for HOPOS	July 2024
	Munich–Wuppertal–Hannover Workshop	July 2023
	Against modelism	
	European Philosophy of Science Association Meeting	September 2023
	UK and European Conference on Foundations of Physics	July 2023
	Perturbing the hole argument	
	German Physical Society Spring Meeting, Heidelberg	March 2022
	The substantial role of Weyl symmetry in deriving general relativity from string theory	
	Philosophy of Science Association Meeting	November 2021
	Effective and selective realisms	
	European Philosophy of Science Association Meeting	September 2021
	The unreasonable(?) effectiveness of mathematics in science	
	Summer School on Mathematical Philosophy for Female Students	July 2021
	I ain't afraid of no ghost	
British Society for the Philosophy of Science Conference	July 2021	
Virtual entities in science: a virtual workshop	March 2021	
Munich Center for Mathematical Philosophy	November 2019	
The geometry of black hole entropy		
Cambridge/LMU workshop on Black Hole Thermodynamics	October 2019	
Beyond Spacetime II: Time in Quantum Gravity	March 2015	

	Black holes as black boxes	
	European Philosophy of Science Association Meeting	September 2019
	Sizing up gauge	
	Second ILMPS Conference	September 2019
	Philosophy of Logic, Math and Physics Graduate Conference	June 2017
	Fields, loops, and the strong CP problem	
	British Society for the Philosophy of Science Conference	July 2019
	Pittsburgh Early Career Workshop	April 2019
	Problems, puzzles, and paradoxes in particle physics	
	Second Joint MCMP–Hannover Workshop	June 2019
	Subsystem independence in gauge theories	
	Workshop on Relativistic Locality, MCMP	May 2019
	Equivalence within and between theories	
	Foundations of Categorical Philosophy of Science	April 2019
	How to do things with isomorphisms	
	Munich Center for Mathematical Philosophy	October 2018
	The inertial structure of a Newtonian cosmos	
	UK and European Conference on Foundations of Physics	July 2018
	Sameness and separability in gauge theories	
	Philosophy of Science Association Meeting	November 2016
	UK and European Conference on Foundations of Physics	July 2016
	British Society for the Philosophy of Science Conference	July 2016
	Third International Summer School in Philosophy of Physics	July 2015
	What mathematical explanations could not be	
	Philosophy of Logic, Math and Physics Graduate Conference	June 2015
	The hole argument, take n	
	IPP Conference on the Foundations of Physics	March 2015
	A few points on gunky space	
	Philosophy of Science Association Meeting	November 2014
	Black hole thermodynamics: More than an analogy? (with C. Callender)	
	Philosophy of Science Association Meeting	November 2014
	Symmetries, laws, and quantum fields	
	UC San Diego Philosophy Graduate Student Conference	May 2014
	Problems with justifying typicality measures	
	IPP Conference on the Foundations of Physics	March 2014
COMMENTARIES	V. Chasova, “Observable Diffeomorphisms (or, How to Limit the Hole Argument and Extend Direct Empirical Status)”	
	Online symmetry workshop	June 2023
	R. Chaplin, “Being Ashamed of Others: Rethinking the Self-Appraisal Account of Shame”	
	East Coast Tritons Workshop	March 2023
	L. E. Szabó, “Physicalism and the Quine–Putnam indispensability argument”	
	Workshop on Physicalism, MCMP	May 2022
	J. Norton, “No time for the Hamiltonian constraint”	
	American Philosophical Association Pacific Division Meeting	April 2018

	T. Menon, “Rebuilding Neurath’s boat Planck by Planck” Conference on the Philosophical Foundations of Quantum Gravity	June 2017
	T. Barrett, “What do symmetries tell us about structure?” American Philosophical Association Pacific Division Meeting	April 2017
	C. Chall, “Doubt for Dawid’s non-empirical theory assessment” American Philosophical Association Pacific Division Meeting	April 2016
	R. Wald, “The ‘geodesic principle’ . . . in general relativity” Michigan Foundations of Physics Workshop	January 2014
TEACHING	Munich Center for Mathematical Philosophy Lecturer	2018 – present
	Early Analytic Philosophy (BA) Symmetries in Physics and Metaphysics (MA) Philosophy of Mathematics (BA) Logical Methods in Philosophy of Science (MA) Science, Values, and Democracy (BA) Philosophy of Time (MA) Philosophy of Physics (BA) The Applicability of Mathematics (MA) Category Theory (MA) Scientific Reasoning (MA)	
	University of California, San Diego Instructor of Record — Philosophy Dept.	2015 – 2018
	Introduction to Logic Scientific Reasoning Science, Society, and Values	
	Teaching Assistant — Philosophy Dept.	2011 – 2016
	Introduction to Philosophy Introduction to Logic Introduction to Philosophy: Metaphysics Introduction to Philosophy: Epistemology Ethics & Society Aristotle Existentialism	
	Graduate Writing Consultant — UC San Diego Writing Center	2016
	Teaching Assistant — Revelle Humanities Program Foundations of Western Civilization: Israel and Greece Rome, Christianity, and the Middle Ages	2014
	Pomona College Lecturer in Philosophy — Philosophy Dept.	2017
	Problems of Philosophy Philosophy of Science Directed Readings on the Philosophy of Mathematics	
SUPERVISION	Munich Center for Mathematical Philosophy J. Verscholle, The Later Wittgenstein Today: The Non-Extensionalist View	2023
	M. S. Binkle, On the (in-)compatibility of models of time’s passage in chronology exhibiting and violating universes	2023
	B. Zayton, Brandom’s Argument for the Existence of Singular Terms and Inferentialist Quantification	2022
	A. Deng, Rethinking quantum non-individuality	2022

PROFESSIONAL ACTIVITIES	Organizer	
	MCMP Colloquium in Logic and Philosophy of Science	2022 – present
	MCMP Work in Progress Seminar	2022 – present
	MCMP Philosophy of Physics Reading Group	2019 – 2022
	UC San Diego Graduate Philosophy Colloquium Series	2013 – 2015
	Co-Organizer	
	MCMP Summer School on Mathematical Philosophy for Female Students	2022, 2024
	Global Structure in Semi-Classical Gravity	2022
	Category Theory in Philosophy of Science	2021
	Second Joint MCMP–Hannover Workshop	2019
	Program Committee	
	Alternative Approaches to Scientific Realism	2021
	UC San Diego Summer Program for Women in Philosophy	2015
	Discussion group leader	
	Midwest Summer School in Philosophy of Physics	2020
	Refereeing:	
	<i>Analysis, British Journal for the Philosophy of Science, Erkenntnis, European Journal for Philosophy of Science, Foundations of Physics, Foundations of Science, International Studies in the Philosophy of Science, Journal for General Philosophy of Science, Kriterion, Philosophical Studies, Philosophy of Science, Studies in History and Philosophy of Modern Physics, Studies in History and Philosophy of Science, Synthese</i>	