

John Dougherty

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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. W. 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	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	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	Against modelism
European Philosophy of Science Association Meeting		September 2023
UK and European Conference on Foundations of Physics		July 2023
Sellars and <i>The Scientific Image</i>		
Munich–Wuppertal–Hannover Workshop		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.	Fall 2017
	Problems of Philosophy Philosophy of Science Directed Readings on the Philosophy of Mathematics	
SUPERVISION	Munich Center for Mathematical Philosophy Jack Verschoyle. The Later Wittgenstein Today: The Non-Extensionalist View	2023
	Max Samuel Binkle. On the (in-)compatibility of models of time's passage in chronology exhibiting and violating universes	2023
	Benjamin Zayton. Homotopy type theory and Bandom on singular terms.	2022
	Anne 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
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Refereeing:

*Analysis, British Journal for the Philosophy of Science, Erkenntnis,
European Journal for Philosophy of Science, Foundations of Physics,
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*