John Wigglesworth

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Research Interests	Philosophy of Mathematics, Philosophical Logic, Metaphysics
Teaching Competence	Philosophy of Science, Philosophy of Mind, Applied Ethics, History of Philosophy (Ancient and Early Modern)

Academic Positions

June 2017 – Present
University of Vienna
Postdoctoral Researcher, Institut für Philosophie
ERC Project *The Roots of Mathematical Structuralism*

June 2017 – Present
Ludwig–Maximilians–Universität, München
External Member, Munich Center for Mathematical Philosophy

June 2015 – June 2017
Ludwig–Maximilians–Universität, München
Postdoctoral Researcher, Munich Center for Mathematical Philosophy
DFG-ANR Project *Mathematics: Objectivity by Representation*

Sept. 2013 – June 2015
London School of Economics and Political Science
Visiting Lecturer and Research Fellow

Sept. 2014 – March 2015
Birkbeck, University of London
Associate Tutor

Sept. 2013 – July 2014
Institute of Philosophy, University of London
Visiting Research Fellow

Aug. 2007 – May 2012
Queens College, City University of New York
Adjunct Lecturer

Education

2013	PhD, Philosophy, The Graduate Center, City University of New York
2011, 2012	Visiting Scholar, University of St. Andrews
2011	Visiting Scholar, University of Melbourne
2005	BA *cum laude*, Philosophy, University of Massachusetts, Amherst

Peer Reviewed Articles

'Bi-Modal Naive Set Theory', forthcoming in *The Australasian Journal of Logic*.

'The Structuralist Thesis Reconsidered', co-authored with Georg Schiemer, *The British Journal for the Philosophy of Science*, DOI: 10.1093/bjps/axy004, 2018.

'Grounding in Mathematical Structuralism', in Bliss, R. and Priest, G. (eds.) *Reality and its Structure: Essays in Fundamentality*, Oxford University Press, 217 – 236, 2018.

'Logical Anti-Exceptionalism and Theoretical Equivalence', *Analysis* 77: 759 – 767, 2017.

'Set-Theoretic Dependence', *The Australasian Journal of Logic* 12: 159 – 176, 2015.

Book Reviews and Other Publications

Guest column 'What's Hot in Mathematical Philosophy', *The Reasoner* 12: 22 – 23, 2018.

Review of Ian Rumfitt *The Boundary Stones of Thought. The Philosophical Quarterly* 67: 219 – 221, 2017.

Review of Penelope Rush (ed.) *The Metaphysics of Logic. Philosophy* 90: 710 – 715, 2015.

Under Review and In Preparation

'Non-Eliminative Structuralism, Fregean Abstraction, and Non-Rigid Structures', under review after positive revise and resubmit with *Erkenntnis*.

'Scientific Realism without Mathematical Platonism: A Structuralist Approach', under review with *The Philosophical Quarterly*.

'Putnam on Indispensability and Semantics', in preparation.

'Bayesian Confirmation of Logical Theories', in preparation.

Editorial Work

Co-editor of a special issue of *Philosophia Mathematica* on "The Foundations of Mathematical Structuralism" (with Georg Schiemer), in preparation.

Co-editor of a special issue of *Synthese* on "The Foundations of Mathematics: Competing Foundations, New Axioms and the Set-Theoretic Multiverse" (with Carolin Antos-Kuby, Neil Barton, Sy David Friedman, and Claudio Ternullo), in-preparation.

Refereed Presentations

Logical Anti-Exceptionalism and Theoretical Equivalence
 European Philosophy of Science Association Conference, Exeter, September 2017
 Critical Views of Logic, Oslo, August 2017
 Joint Session of the Aristotelian Society & the Mind Association, Edinburgh, July 2017
 British Society for the Philosophy of Science Annual Conference, Edinburgh, July 2017

Non-Eliminative Structuralism, Fregean Abstraction, and Non-Rigid Structures
 The Emergence of Structuralism and Formalism, Prague, June 2016

Naive Modal Set Theory
 Prague Seminar on Non-Classical Mathematics, June 2015
 History & Philosophy of Infinity, Cambridge, September 2013

Logical Laws and Logical Possibility
 British Society for the Philosophy of Science, Annual Conference, Exeter, July 2013
 Graduate Conference in Theoretical Philosophy, Groningen, April 2013
 PhDs in Logic V, Munich Center for Mathematical Philosophy, April 2013

Mathematical Structuralism and Metaphysical Dependence
 Structuralism in Physics and Mathematics, Bristol, Sept. 2012

Metaphysical Dependence and Set Theory
 Reality Making: Exploring Fundamentals in Metaphysics, Nottingham, July 2012
 Australasian Postgraduate Philosophy Conference, Monash University, April 2011

What is a Possible World?
    Logic, Mathematics, and Physics Graduate Conference, Western Ontario, May 2012
    Northwest Student Philosophy Conference, Western Washington University, May 2012
    Graduate Conference in Philosophy, University of Texas at Austin, March 2012

Invited Presentations

Abstraction and Rigidity
    Varieties of Mathematical Abstraction, Universität Wien, upcoming August 2018

Mathematical Nominalism
    Universität Wien, March 2018

Scientific Realism without Mathematical Platonism: A Structuralist Approach
    Universität Wien, November 2017
    University of Leeds, March 2017
    University of York, March 2017
    Numbers in Mind, Institute of Philosophy, London, February 2017

Naive Modal Set Theory
    Truth and Properties: Building Bridges, LMU München, September 2016
    University of Oxford, November 2014
    University of Melbourne, May 2011

Logics as Scientific Theories of Consequence
    Universität Wien, June 2016
    University of Bristol, May 2014
    University of Kent, April 2014
    Institute of Philosophy, London, March 2014

Non-Eliminative Structuralism, Fregean Abstraction, and Non-Rigid Structures
    Munich Center for Mathematical Philosophy, May 2016
    Archives Henri Poincaré, Université de Lorraine, January 2016

Mathematical Structuralism and Metaphysical Dependence
    Munich Center for Mathematical Philosophy, July 2015

Reasoning Biases and Non-Classical Logic
    London School of Economics, November 2013
    Cumberland Lodge, November 2013

Metaphysical Dependence and Set Theory
    The Graduate Center, CUNY, November 2011
    University of Melbourne, March 2011
    University of Adelaide, January 2011

Why Does Logic Matter to Philosophy?
    Queens College, CUNY, November 2009

Teaching Experience

Postgraduate	Advanced Logic (completeness and incompleteness)
	Logic and Language (modal and non-classical logics)
	Philosophy of Mathematics
	Emotion, Cognition, and Behaviour: Science and Policy
	Philosophical Research and Writing
	Research Methods in the Social Sciences
Undergraduate	Introductory Logic
	Philosophy of Mind
	Business Ethics
	History of Philosophy: Ethics
	History of Philosophy: Metaphysics and Epistemology
	Introduction to Philosophy
Supervision	Master's Theses
	Final Undergraduate Theses
	Independent Studies

Conference Organisation

Varieties of Mathematical Abstraction (with Francesca Biagioli and Georg Schiemer). Vienna, July 2018. Funded by the European Research Council (ERC).

SotFoM 4: Reverse Mathematics (with Carolin Antos-Kuby, Neil Barton, and Claudio Ternullo). Munich, October 9 – 11, 2017. Keynote Speakers: Marianna Antonutti Marfori, Walter Dean, Benedict Eastaugh, Takako Nemoto, Stephen Simpson. Funded by the German Research Foundation (DFG), awarded €18,300.

Model Theory: Philosophy, Mathematics, Language (with Lavinia Picollo and Gil Sagi). Munich, January 2017. Keynote speakers: J. Baldwin, T. Button, H. Field, V. Halbach, J. Kennedy, M. Magidor, G. Schiemer, G. Sher, D. Westerståhl, Y. Winter, T. E. Zimmermann. Funded by the German Research Foundation (DFG), awarded €23,800.

Foundations of Mathematical Structuralism (with Georg Schiemer). Munich, October 12 – 14, 2016. Keynote Speakers: S. Awodey, J. Carter, G. Heinzmann, G. Hellman, J. Ladyman, H. Leitgeb, M. Leng, Ø. Linnebo, E. Reck. Funded by the German Research Foundation (DFG), awarded €18,300.

SotFoM 3 and the Hyperuniverse Programme (with Carolin Antos-Kuby, Neil Barton, and Claudio Ternullo). Kurt Gödel Research Center, University of Vienna, September 21 – 23, 2015. Keynote Speakers: T. Arrigoni, S. Friedman, G. Hellman, M. Leng, Ø. Linnebo. Funded by the KGRC.

Alternative Foundations of Mathematics (SotFoM 2) (with Carolin Antos-Kuby, Neil Barton, and Claudio Ternullo). London, January 12 – 13, 2015. Keynote Speakers: S. Friedman, V. Gitman, J. Ladyman, and T. Meadows. Funded by the Mind Association, Institute of Philosophy, BSPS, Aristotelian Society, British Logic Colloquium, and Birkbeck College, awarded £4,700.

Symposium on the Foundations of Mathematics (SotFoM) (with Carolin Antos-Kuby, Neil Barton, and Claudio Ternullo). Kurt Gödel Research Center, University of Vienna, July 7 – 8, 2014. Keynote speakers: H. Leitgeb and S. Friedman. Funded by the KGRC.

Service and Professional Affiliations

Referee for *Australasian Journal of Logic, Australasian Journal of Philosophy, British Journal for the Philosophy of Science, dialectica, Erkenntnis, Synthese, Theoria.*
MSc and Undergraduate Exam Sub-Boards committee member, LSE.
Convenor of a work group for London-based early career researchers.
Co-convenor of a reading group on set theory with London-based postgraduate students.
Member, British Society for the Philosophy of Science, American Philosophical Association.

Detailed Teaching Experience

Munich Center for Mathematical Philosophy, LMU München

Philosophy of Mathematics – Co-taught with Georg Schiemer. MA and advanced undergraduate seminar covering main approaches to the philosophy of mathematics, including platonism, intuitionism, and naturalism, as well as an extended focus on topics in (neo-)logicism and structuralism (30 students).

Varieties of Philosophical Logic – Guest lecture on intuitionistic logic (10 students).

Birkbeck, University of London

History of Philosophy – Seminar leader for second year undergraduate course covering ancient and early modern philosophy. The focus of this course is on metaphysics and epistemology in Plato, Descartes, Locke, Malebranche, and Hume (10 students).

Introduction to the History of Philosophy – Seminar leader for first year undergraduate course covering ancient and early modern philosophy. The focus of this course is on conceptions of the good life in Plato, Aristotle, Hobbes, Spinoza, Shaftesbury, and Hume (15 students).

London School of Economics and Political Science

Emotion, Cognition, and Behaviour: Science and Policy – MSc and advanced undergraduate course covering main topics in philosophy of mind and cognitive science, including discussion of mental illness and disability, as well as implicit gender, racial, and other biases, with consideration of the policy issues surrounding these topics (28 students).

Philosophical Research and Writing – Co-taught with Luc Bovens. Seminar for students in the Philosophy and Public Policy (PPP) MSc programme, covering basic logic, reading and writing philosophy papers, and using research databases (PhilPapers.org, Google Scholar, Philosopher's Index) (42 students).

Research Methods in the Social Sciences – Co-taught with Luc Bovens. Seminar for students in the PPP MSc programme, covering quantitative and qualitative research methods including two-way tables, correlation, and regression (42 students).

Set Theory and Further Logic – Guest lecture on axiomatic set theory (10 students).

MSc Dissertation Supervision – Two PPP MSc dissertations, both on philosophical issues and policy concerns related to the philosophy of psychiatry and mental illness.

Queens College, City University of New York

Introductory Logic – General introduction to formal logic for undergraduates, covering semantics and proof theory (natural deduction and trees) for propositional and first-order logic (avg. 45 students).

Logic and Language – MA and advanced undergraduate course covering formal extensions of and alternatives to first-order classical logic, including modal, intuitionistic, and paraconsistent logics, and second-order classical logic (9 students).

Advanced Logic – MA and advanced undergraduate course covering soundness and completeness results for propositional and first-order classical logic, formal theories of arithmetic, and a sketch of Gödel's incompleteness results (14 students).

Introduction to Philosophy – General introduction to philosophy for undergraduates, covering topics including existence and ontology, possibility and necessity, causation, the philosophy of space and time, empiricism, scientific progress, evidence, justification and confirmation. (avg. 45 students).

Philosophy of Mind – Advanced undergraduate course covering main topics in philosophy of mind, including physicalism, functionalism, mental representation, connectionism, emotion, rationality, and the philosophy of psychiatry and mental illness (36 students).

Business Ethics – Intermediate undergraduate course, for both philosophy and business students, covering main theoretical positions in ethics (utilitarianism, Kantianism, virtue ethics) and issues in business ethics including corporate personhood, social responsibility, privacy, and affirmative action (47 students).

MA Supervision – One MA in Philosophy dissertation on the modal logic of belief in the context of inconsistent beliefs.

Senior Undergraduate Dissertation – Three final undergraduate dissertations on topics in the philosophy of mind and ancient philosophy.

Independent Study in Analytic Philosophy – One-to-one weekly meetings with an advanced undergraduate student, covering classic texts in analytic philosophy, including Frege, Moore, Russell, Wittgenstein, and Ayer.

Professional Development

The Graduate Center, City University of New York

Interactive Technology and Pedagogy – Completed a full year course on the use of instructional technology to improve teaching, learning, and research, providing theoretical, historical, philosophical, literary, and sociological perspectives on technology and pedagogy.

Teaching Philosophy – Course on principles of effective teaching, with emphasis on teaching courses offered in philosophy departments.

Teaching Humanities – General course on teaching humanities, including syllabus preparation, assessment methods, and exam formats.

Academic Ethics – Course on ethical issues that arise in higher education, including the duties of a professor, academic freedom, scientific research, free speech, affirmative action, diversity, and neutrality.