

# JOHN WIGGLESWORTH

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## RESEARCH INTERESTS

Metaphysics, Philosophy of Mathematics,  
Philosophical Logic, Philosophy of Science,

## TEACHING COMPETENCE

Philosophy of Mind and Cognitive Science, Applied Ethics,  
History of Philosophy (Ancient and Early Modern)

## ACADEMIC POSITIONS

June 2019 – Present

**University of Leeds**  
Visiting Research Fellow in Philosophy

June 2017 – June 2019

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

June 2015 – June 2017

**Ludwig-Maximilians-Universität, Munich**  
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 in Philosophy

Sept. 2014 – March 2015

**Birkbeck, University of London**  
Associate Tutor in Philosophy

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 in Philosophy

## 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 PUBLICATIONS

'Individuating Logics: A Category-Theoretic Approach', *Thought* 8: 200 – 208, 2019.

'Non-Eliminative Structuralism, Fregean Abstraction, and Non-Rigid Structures', *Erkenntnis*, DOI: 10.1007/s10670-018-0096-3, 2018.

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

'Bi-Modal Naive Set Theory', *The Australasian Journal of Logic* 15: 139 – 150, 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.

#### **OTHER PUBLICATIONS**

'Introduction' to a special issue on the foundations of mathematics, co-authored with Carolin Antos, Neil Barton, Sy-David Friedman, and Claudio Ternullo, *Synthese*, DOI: 10.1007/s11229-019-02422-3, 2019.

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**

'Scientific Realism without Mathematical Platonism', revise and resubmit with the *European Journal for Philosophy of Science*.

'Structuralism and Informal Provability', co-authored with Georg Schiemer, in preparation.

'Bayesian Confirmation of Logical Theories', in preparation.

#### **EDITORIAL WORK**

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 production.

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

#### **SELECTED PRESENTATIONS**

*Mathematical Structuralism and Informal Provability*

University of Leeds, upcoming March 2020

Munich Center for Mathematical Philosophy, LMU München, May 2019

Universität Wien, May 2019

*Modal Semantics for Structural Abstraction*

Varieties of Mathematical Abstraction, Universität Wien, August 2018

*Scientific Realism without Mathematical Platonism: A Structuralist Approach*

Joint Session of the Aristotelian Society & the Mind Association, Oxford, July 2018

British Society for the Philosophy of Science Annual Conference, Oxford, July 2018

Scuola Superiore Studi Pavia IUSS, May 2018

Universität Wien, November 2017

University of Leeds, March 2017

University of York, March 2017

Numbers in Mind, Institute of Philosophy, London, February 2017

*Mathematical Nominalism*

Universität Wien, March 2018

*Non-Eliminative Structuralism, Fregean Abstraction, and Non-Rigid Structures*

The Emergence of Structuralism and Formalism, Prague, June 2016

Munich Center for Mathematical Philosophy, May 2016

Archives Henri Poincaré, Université de Lorraine, January 2016

*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

*Naive Modal Set Theory*

Truth and Properties: Building Bridges, LMU München, September 2016

Prague Seminar on Non-Classical Mathematics, June 2015

Oxford Philosophy of Mathematics Seminar, November 2014

History & Philosophy of Infinity, Cambridge, September 2013

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

*Mathematical Structuralism and Metaphysical Dependence*

Munich Center for Mathematical Philosophy, July 2015

Structuralism in Physics and Mathematics, Bristol, Sept. 2012

*Reasoning Biases and Non-Classical Logic*

London School of Economics, November 2013

Cumberland Lodge, November 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

*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

*Metaphysical Dependence and Set Theory*

The Graduate Center, CUNY, November 2011

University of Melbourne, March 2011

## 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
Undergraduate	Introductory Logic Metaphysics Philosophy of Science Philosophy of Mind Applied Ethics in Business and Technology History of Philosophy (Ancient and Early Modern) Introduction to Philosophy Philosophical Research and Writing
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). LMU 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). LMU Munich, January 9 – 12, 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). LMU 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. Arrighi, 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

Referee for *Analysis*, *Australasian Journal of Logic*, *Australasian Journal of Philosophy*, *The British Journal for the Philosophy of Science*, *dialectica*, *Erkenntnis*, *Synthese*, *Theoria*.

## DETAILED TEACHING EXPERIENCE

### Munich Center for Mathematical Philosophy, LMU Munich

*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 physicalism, functionalism, mental representation, connectionism, emotion, distributed cognition, and rationality, with consideration of the ethical, social and political 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 psychology 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 and cognitive science, including physicalism, functionalism, mental representation, connectionism, emotion, distributed cognition, rationality, and the philosophy of psychology 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 BA 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.