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AREAS OF RESEARCH SPECIALISATION

Logic, philosophy of mathematics.

AREAS OF TEACHING COMPETENCE

Philosophy of language, philosophy of logic.

APPOINTMENTS

2017–21   Postdoctoral Fellow, Munich Center for Mathematical Philosophy, LMU Munich.

2021–   Teaching Fellow, Department of Philosophy, University of Warwick.

2019   Assistant Professor, Munich Center for Mathematical Philosophy, LMU Munich. April–September 2019.

2015–17   Postdoctoral Researcher, Department of Philosophy, University of Aberdeen and School of Mathematics, University of Bristol, on the Leverhulme Trust-funded project "Set Theoretic Pluralism" (principal investigators: Toby Meadows and Philip Welch).

EDUCATION

2015   PhD Philosophy, University of Bristol, UK.

2011   MA Logic and Philosophy of Mathematics, University of Bristol, UK.

2007   BA Philosophy, University of Bristol, UK.

PUBLICATIONS

Peer-reviewed journal articles and book chapters

2019   'Set existence principles and closure conditions: unravelling the standard view of reverse mathematics'. *Philosophia Mathematica* 27(2):153–176, 2019.
DOI: 10.1093/philmat/nky010. Preprint: extralogical.net/files/set-existence-paper.pdf.

2017   'Tarski'. In *The History of Philosophical and Formal Logic: From Aristotle to Tarski*, edited by A. Malpass and M. Antonutti Marfori, Bloomsbury, pp. 293–313, 2017.
Preprint: extralogical.net/files/tarski-hol-chapter.pdf.

Book reviews

2020   Review of John Stillwell, 'Reverse Mathematics: Proofs from the Inside Out'. *Philosophia Mathematica* 28(1):108–116, 2020. DOI: 10.1093/philmat/nkaa003.
Preprint: extralogical.net/files/stillwell-review.pdf.

2017   Review of Denis R. Hirschfeldt, 'Slicing the Truth: On the Computability Theoretic and

Reverse Mathematical Analysis of Combinatorial Principles'. *Studia Logica* 105(4):873–879, 2017. DOI: 10.1007/s11225-017-9740-1.

Preprint: extralogical.net/files/hirschfeldt-review.pdf.

SCHOLARSHIPS

2011–14   Doctoral scholarship (fees and full maintenance grant) at the University of Bristol, Arts and Humanities Research Council, 2011–2014.

2012   Asian Initiative for Infinity Graduate Summer School scholarship, National University of Singapore, 20 June–17 July, 2012.

TALKS

Invited conference and workshop talks

2020   'Reversals as counterexamples: computability theory and the foundational standpoint'. Structuralist Foundations, University of Vienna, 20–21 February 2020.

2019   'Recursive counterexamples and the foundational standpoint'. Paris–Munich FFIUM project workshop, University of Paris 1 Panthéon–Sorbonne, 17 December 2019.

'Recursive counterexamples and the foundational standpoint'. Computation in the Theory and Practice of Natural Science, LMU Munich, 30 May–2 June 2019.

'Hyperarithmetical analysis and Kripke–Feferman truth theories'. 1st Pisa–MCMP Meeting, LMU Munich, 27 May 2019.

2018   'Does nonclassical truth impair mathematical reasoning?'. Special Session on Philosophy of Logic and Mathematics, Logic Colloquium '18, University of Udine, 23 July 2018.

'Reduction, justification, meaning: lessons from the relativised Hilbert program' (with Marianna Antonutti Marfori). Formal Methods in Philosophy: Truth, Paradox, and Mathematics, LMU Munich, 5 June 2018.

2017   'Does nonclassical truth impair mathematical reasoning?'. C-ALPHA Workshop on Logic and Philosophy of Mathematics, UC Irvine, 9 December 2017.

'On the significance of reverse mathematics'. Fourth Symposium on the Foundations of Mathematics, LMU Munich, 9–11 October 2017.

'Formalisation and coding overhead'. Fourth New College Logic Meeting, University of Oxford, 11 March 2017.

2015   'Ontological commitment and reverse mathematics'. Davis–Paris Workshop on Ontological Commitment in Mathematics, IHPST, Paris, 14 December 2015.

2014   'Reversals and closure'. Philosophy of Mathematics Workshop, KU Leuven, 13 February 2014.

Invited seminar and colloquium talks

2021   'Recursive counterexamples, reversals, and the constructive standpoint'. Mathematical Logic Seminar, University of Lisbon, 19 April 2021.

2020   'Computability theory and the foundational standpoint'. OCIE–HPML Seminar, Chapman University, 13 March 2020.

2019   'Coding overhead and the pitfalls of formalization'. Logic Seminar, University of Connecticut, 1 April 2019.

2019   'Recursive counterexamples and the foundational standpoint'. Logic Colloquium, University of Connecticut, 29 March 2019.

2018   'Does nonclassical truth impair mathematical reasoning?'. Philosophy of Mathematics Seminar, University of Oxford, 14 May 2018.

2017   'Unravelling the standard view of reverse mathematics'. MCMP Logic Colloquium, LMU Munich, 19 January 2017.

2016   'Formal and informal equivalences in real analysis'. Midlands Logic Seminar, University of Birmingham, 25 February 2016.

2014   'Reversals and closure'. MCMP Logic Colloquium, LMU Munich, 12 June 2014.

              'Computational reverse mathematics and foundational analysis'. Midlands Logic Seminar, University of Birmingham, 4 March 2014.

Contributed talks (refereed)

2019   'Epistemic aspects of reverse mathematics' (with Marianna Antonutti Marfori). FFIUM Symposium, 16th Annual Congress of Logic, Methodology, and Philosophy of Science and Technology, Czech Technical University, 5–10 August 2019.

2018   'Coding overhead and the pitfalls of formalization'. 19th Midwest PhilMath Workshop, University of Notre Dame, 27 October 2018.

2017   'A deflationary account of the significance of reversals'. European Congress on Analytic Philosophy 9, LMU Munich, 26 August 2017.

2015   'What is ordinary mathematics?' (with Marianna Antonutti Marfori). French Philosophy of Mathematics Workshop 2015, IHPST, Paris, 6 November 2015.

              'Three kinds of mathematical naturalness'. Logic Colloquium 2015, University of Helsinki, 5 August 2015.

              'Set existence principles in reverse mathematics'. 15th Congress of Logic, Methodology and Philosophy of Science, University of Helsinki, 7 August 2015.

2015   'The concept of a set existence principle'. Second Symposium on the Foundations of Mathematics, University of London, 14 January 2015.

2014   'Computational reverse mathematics and foundational analysis'. Logic Colloquium 2014, Vienna Summer of Logic, TU Wien, 14 July 2014.

2012   'Shore's computational reverse mathematics'. Philosophy and Computation workshop, Lund University, 13 May 2012.

TEACHING

Key: [g] = graduate, [u] = undergraduate, [g/u] = combined graduate/undergraduate.

As primary instructor

1.   *Warwick.* Philosophy of Mathematics [u], 2020–21.

2.   *LMU Munich.* Vagueness [u], 2018–19.

3.   *LMU Munich.* Modal Logic [g/u], 2018–19.

4.   *LMU Munich.* A Philosophical Introduction to Computability and Randomness [g] (with Tom Sterkenburg), 2018–19.

As teaching assistant

1.   *Bristol.* Philosophy of Language [u], 2014–15.

2.   *Bristol.* Introduction to Philosophy A (epistemology, metaphysics) [u], 2014–15.

3.   *Bristol.* Introduction to Formal Logic [u], 2014–15.

4.   *Bristol.* Introduction to Formal Logic [u], 2013–14.

5.   *Bristol.* Introduction to Formal Logic [u], 2012–13.

6.   *Bristol.* Mathematical Logic [g/u], 2011–12.

Supervision

1.   *LMU Munich.* MA thesis supervisor for Ainsley Pullen. Defended in September 2020.

Departmental service

1.   *Warwick.* Degree convenor for Mathematics and Philosophy (BA/BSc), 2020–21.

CONFERENCE ORGANISATION

2019   Gesellschaft für analytische Philosophie (German Society for Analytical Philosophy) Doctoral Workshop 2019. LMU Munich, 11 October 2019. Co-organised with Norbert Gratzl, Stephan Hartmann, Hannes Leitgeb, Dunja Šešelja, and Rush Stewart.

2017   Set Theoretic Pluralism Symposium 2. University of Bristol, 20–25 June 2017. Co-organised with Toby Meadows and Philip Welch.

2016   Set Theoretic Pluralism Symposium 1. University of Aberdeen, 12–17 July 2016. Co-organised with Toby Meadows.

2013   Bristol–Princeton Postgraduate Conference in Philosophy of Logic and Mathematics. University of Bristol, 22–23 February 2013. Co-organised with Philip Welch.

SERVICE TO THE PROFESSION

Article refereeing

Journal articles refereed for: Analysis, Erkenntnis, Mind, Notre Dame Journal of Formal Logic, Review of Symbolic Logic, Synthese.

Book chapters refereed for: *Peter Schroeder-Heister on Proof-Theoretic Semantics*, T. Piecha and K. Wehmeier (eds.), Springer, forthcoming.

Grant refereeing

2020   Marie Skłodowska-Curie Individual Fellowships (MSCA-IF) 2020 call.

2020   Aarhus Institute of Advanced Studies AIAS-COFUND Marie Skłodowska-Curie Fellowships 2020–2021 call.

2019   Marie Skłodowska-Curie Individual Fellowships (MSCA-IF) 2019 call.

Conference submission refereeing

2019   International Conference for Philosophy of Science and Formal Methods in Philosophy (CoPS-FaM-19) of the Polish Association for Logic and Philosophy of Science.

2018   Irvine–Munich–PoliMi–Salzburg Conference in Philosophy and Foundations of Physics.

PROFESSIONAL AFFILIATIONS

Association for Symbolic Logic.

Association for the Philosophy of Mathematical Practice.