

CURRICULUM VITAE

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Employment

University of Cambridge, Professor of Logic and Algorithms. since October 2009.
(University Lecturer: 1999–2003; University Senior Lecturer: 2003–2006; Reader in
Logic and Algorithms 2006–2009)

Swansea University, Senior Research Associate, Lecturer. 1993–1998.

Education

University of Pennsylvania,
Ph.D. in Computer and Information Science. May 1993

University of Delaware,
M.S. in Computer and Information Science. December 1988

Indian Institute of Technology, Delhi,
B.Tech. in Computer Science and Engineering. May 1986

Other Appointments, Affiliations and Awards

Indiana University, Bloomington, Visiting Asst. Professor, August–December 1996.

Robinson College, Cambridge, Fellow since September 1999,
Director of Studies in Computer Science, 1999–2000, 2011–13, 2015–16, 2017–18.
Tutor, 2000–2004, 2007–08. Dean, 2011–12, Acting Deputy Warden 2017–18, Deputy Warden
2021–24).

Laboratoire Bordelais de Recherche en Informatique, (CNRS and Université Bordeaux I), Visiting
Professor during 2002–03.

Institut National de Recherche en Informatique et Automatique (INRIA), Orsay, Visiting Professor
during 2009.

University of Cambridge Computer Laboratory, Deputy Head of Department, 2008–2011.

Leverhulme Trust Fellowship, 2009.

Alan Turing Institute, Fellow 2017–21.

Professional Activities and Organizations

Professional Bodies and Positions of Trust

Member of the Award Committee (chair in 2027), *ACM SIGLOG-EATCS-EACSL Alonzo Church Award*, 2024–28.

Member of the Award Committee (chair in 2020), *ACM SIGACT-EATCS Gödel Prize*, 2018–20.

Chair of the Award Committee for the *S. Barry Cooper Prize* of the Association Computability in Europe, 2020–23.

Member of the Award Committee for the *EATCS-IPEC Nerode Prize* (chair in 2022), 2020–2022.

President, *European Association for Computer Science Logic* (EACSL), 2013–17 (vice-president, 2009–12).

External Member of the Professorial Appointment Committees: *University of Edinburgh* (2016); *University of Oxford* (2017), *Imperial College, London* (2021), *University of Warwick* (2022), *Tampere University* (2024).

Member of the International Panel for evaluating the Computer Science and Technology programme at the *Beijing Institute of Technology* (2018).

Chairman of the Jury, *ACM-India Doctoral Dissertation Award*, 2014–16.

Evaluation Committee for membership of the *Institut Universitaire de France*, 2014, 2016 and 2017 (in the final year as chair of Mathematics and Computer Science panel).

Member of the Council and Executive Committee of the *Association for Symbolic Logic* 2020–2023.

Member of the Executive Committee, *ACM SIGLog* 2014–17.

Member of the International Advisory Board, *Vienna Center for Logic and Algorithms* since 2011.

Member of the *Turing Centenary Advisory Committee*, 2007–12

Member of the Board of Electors, *Corbridge Trust*, since 2003.

Member of the ASL, ACM, BLC, EATCS, EACSL, and LMS.

Reviewing and Examining

Engineering and Physical Sciences Research Council, Peer Review College, since 2003.

Grant review for: *European Research Council*, *Academy of Sciences* (Finland), *MIUR* (Italy), *Leverhulme Trust* (UK), *GACR* (Czech Republic), *FWF* (Austria), *DFG* (Germany), *NWO* (Netherlands), *NSERC* (Canada), *Marsden Fund* (New Zealand), *Croucher Foundation* (Hong Kong), *NCSTE* (Kazakhstan), *FWO* (Belgium), *Trond Mohn Foundation* (Norway) and many others.

Involved in external examining of PhD and Habilitation theses at:

University of Uppsala (2000), University of Leicester (2001), University of Leeds (2003 and 2021), University of Warwick (2004), University of Helsinki (2005 and 2007), Indian Institute of Science, Bangalore (2007), Imperial College London (2008 and 2011), University of Paris (2009, 2015 and 2023), Humboldt University, Berlin (2011), Homi Bhabha National Institute (2011), University of Clermont-Ferrand (2012), UPC, Barcelona (2013 and 2022), RWTH Aachen (2015, 2019 and 2023), University of Warsaw (2016), IIT, Bombay (2016), Masaryk University (2016), TU Darmstadt (2018), Ecole Normale Supérieure (2020) and University of Oxford (2022)

External Examiner, *University of Oxford*, BA in Computer Science, 2011–2014.

Editorial Work

Editor-in-Chief of *ACM Transactions on Computational Logic*, since 2021 (Associate Editor 2010–21).

Member of the Editorial Board of *Proceedings of the Royal Society A*, since 2023.

Editor, *TheoretiCS* since 2021.

Associate editor for *Journal of Computer and System Sciences*, 2018–21.

Associate editor for *Computability*, 2011-2023.

Area editor for *FoLLI Publications in Logic, Language and Information*, since 2011;

Reviews editor for *Bulletin of Symbolic Logic*, 2008–16.

Guest editor of special issues of *Information and Computation* (2003), *Electronic Notes Theoretical Computer Science* (2003), *Logical Methods in Computer Science* (five occasions since 2010), *Journal of Computer and System Sciences* (2013), *Annals of Pure and Applied Logic* (2014), *Theory of Computing Systems* (forthcoming).

Major Meetings Organised

Joint organiser with John Tucker, *British Logic Colloquium*, Gregynog, September 1999.

Joint organiser with Daniel Leivant, workshop on *Implicit Computational Complexity*, Trento, June 1999.

Principal organiser of a six-month programme (January-July 2006) on *Logic and Algorithms* at the Isaac Newton Institute of Mathematical Sciences, Cambridge. The programme included six workshops and over 120 research visitors from around the world.

Joint organiser with Phokion Kolaitis, Benoit Larose and Matt Valeriotte. workshop on *Applications of Universal Algebra and Logic to the Constraint Satisfaction Problem* at the American Institute of Mathematics, Palo Alto, March-April 2008.

Principal organiser, workshop on *Logic and Algorithms* hosted at the International Centre for Mathematical Sciences, Edinburgh, July 2008.

Local organiser of *CiE 2012—Turing Centenary Conference*, Cambridge, June 2012.

Organiser of the *British Logic Colloquium*, Cambridge, September 2015.

Joint organiser (with Laszlo Babai, Pascal Schweitzer and Jacobo Toran), workshop on the *Graph Isomorphism Problem* at the Leibniz-Zentrum für Informatik, Dagstuhl, December 2015.

Joint organiser (with Samson Abramsky, Phokion Kolaitis and Prakash Panangaden) of Special semester on *Logical Structures in Computation* at the Simons Institute for the Theory of Computing, Berkeley, August-December 2016.

Major Conference Committees Chaired

Chairman of the programme committee, *Symposium on Theoretical Aspects of Computer Science – Track B* (STACS 2023), *Foundations of Software Technology and Theoretical Computer Science – Track B* (FSTTCS 2022), *International Colloquium on Automata, Languages and Programming – Track B* (ICALP 2020), *ACM/IEEE Symposium on Logic in Computer Science* (LICS 2018), *British Logic Colloquium* (BLC 2015), *CiE 2012—Turing Centenary Conference*, *Workshop on Logic, Language, Information and Computation* (WoLLIC 2010), *Annual Conference of the European Association for Computer Science Logic* (CSL 2010), *International Workshop on Implicit Computational Complexity* (ICC 1999 and 2003),

Major Invited Lectures

Invited Plenary Speaker at *Logic Colloquium '95, the Annual European Summer Meeting of the Association for Symbolic Logic*, Haifa, 9–17 August, 1995.

Invited Speaker at *CSL'95, the Annual Conference of the European Association for Computer Science Logic*, Paderborn, 25–29 September, 1995.

Invited Speaker at the *British Logic Colloquium*, Cambridge, 21–22 September, 1998.

Invited Speaker at the *British Colloquium on Theoretical Computer Science*, Bristol, 7–11 April, 2002.

Invited Speaker at the *International Congress on Logic, Methodology and Philosophy of Science*, Oviedo, 7–13 August, 2003.

Invited Speaker at the *Jahrestagung der GI-Fachgruppe Logik in der Informatik*, Dortmund, 12–13 October, 2006.

Invited Speaker at the *Panhellenic Logic Symposium*, Volos, 5–8 July, 2007.

Plenary Speaker at the *International Symposium on Mathematical Foundations of Computer Science*, Cesky Krumlov, 26–31 August, 2007.

Invited Speaker at the *British Logic Colloquium*, London, 6–8 September, 2007.

Invited Speaker at joint plenary session of *CSL'07, the Annual Conference of the European Association for Computer Science Logic*, and *GAMES: workshop on Games and Automata for Synthesis and Validation*, Lausanne, 11–15 September, 2007.

Invited Speaker at *WoLLIC'08, the 15th Workshop on Logic, Language, Information and Computation*, Edinburgh, 1–4 July, 2008.

Invited Plenary speaker at *FSTTCS'09, the 29th Conference on Foundations of Software Technology and Theoretical Computer Science*, Kanpur, 15–17 December, 2009.

Invited Speaker at *IPEC 2010, the International Symposium on Parameterized and Exact Computation*, Chennai, 13–15 December, 2010.

Invited Speaker at *The Mathematical Legacy of Alan Turing*, Cambridge, 9 January 2012.

Invited Speaker at the *British Logic Colloquium*, Preston, 2–4 September, 2014.

Keynote Speaker at the *Asian Logic Conference*, Mumbai, 5–8 January, 2015.

Keynote Speaker at the *International Conference on Topics in Theoretical Computer Science*, Tehran, 26–28 August, 2015.

Keynote Speaker at the *ACM-India Annual Event*, Trivandrum, 21–22 January, 2016.

Invited Speaker at *CSL 2020, the Annual Conference of the European Association for Computer Science Logic*, Barcelona, 13–16 January, 2020.

Invited Speaker at *ICALP 2024, the International Colloquium on Automata, Languages and Programming*, Tallinn, 8–12 July, 2024.

Research Funding

Principal Investigator on UKRI project (replacement funding for ERC Advanced Grant) on “Limits of Symmetric Computation” (2023-2028).

Principal Investigator (joint with Samson Abramsky at Univ. of Oxford) of EPSRC project on “Resources and Co-Resources: a junction between semantics and descriptive complexity” (2020-2023).

Principal Investigator of EPSRC project on “Circuits, Logic and Symmetry” (2019-2022)

Principal Investigator on Leverhulme Trust Grant on “Logical Fractals” (2018–2021).

Supervisor, European Commission Maria Skłodowska-Curie Action “Descriptive Complexity of Infinite Domain Constraint Satisfaction Problems” (2018–2020).

Royal Society International Joint Project (with Univ. Amsterdam) on “Infinite Games in Logic and Weirauch Degrees” (2015–2017).

DAAD Exchange Grant on “Graph Isomorphism Problem” (2013–14).

Co-investigator on EC-FP7-IRSES project on “Computable Analysis” (2012–2016).

Royal Society International Joint Project (with TU Darmstadt) on “Fragments of Dependence Logic with Applications to Real Multifunctions” (2012–2014).

Principal Investigator on EPSRC project “Descriptive Complexity with Algebraic Operators” (2010–2014).

Leverhulme Trust Study Abroad Fellowship “Logic, Databases and Verification” (Jan–Aug 2009).

Participant in European Commission funded Marie Curie Research and Training Network on “Model Theory and its Applications” (2005–2008).

Principal Investigator on EPSRC project “The Rôle of Choice in Descriptive Complexity” (2003–2006).

Participant in European Union project on “Games and Automata for Synthesis and Validation” (2002–2006).

Royal Society Outgoing Short Visit on “Fixed-point logics and model theory of natural classes of finite structures” (Feb–Mar 2005).

Royal Society European Joint Project (with RWTH Aachen) on “Fixed Points in Modal and Guarded Logics” (2002–2004).

Participant in CMI Project on “Quantum Information Processing” (2001–2005).

Co-Investigator on EPSRC funded project “Many-Dimensional Modal Logics and Finite Model Theory” (2000–2003).

Principal Investigator on EPSRC funded project “Model Theoretic Methods in Complexity and Verification” (1997–2000).

LMS Overseas visitor grant (in support of a visit by Anil Seth, IMSc, Chennai), 1999.

British Council/CIMO Academic Cooperation Grant (with University of Helsinki) 1997–98.