

## James B. Worrell

Department of Computer Science, University of Oxford  
Wolfson Building, Parks Road, Oxford OX1 3QD, UK  
Tel: +44 1865 273843 Fax: +44 1865 273839 Email: jbw@cs.ox.ac.uk  
<http://www.cs.ox.ac.uk/people/james.worrell/home.html>

---

### Personal Information

Date of Birth July 14, 1973  
Citizenship British

### Research Interests

Decision problems for linear dynamical systems  
Verification of probabilistic and hybrid systems  
Temporal logic and automata theory  
Decidable logical theories

### Employment History

2010–2015 Professor of Computer Science, University of Oxford  
2007–2010 University Lecturer in Computer Science, University of Oxford  
2005–2007 Career Development Fellow, Department of Computer Science,  
University of Oxford  
2001–2005 Postdoctoral Researcher, Department of Mathematics,  
Tulane University, New Orleans

### Education

1996—2001 Ph.D. Computer Science, University of Oxford  
Thesis title: *On coalgebras and final semantics*  
(Thesis nominated for BCS Distinguished Dissertation Award)  
1995–1996 M.Sc. Computer Science (distinction), University of Oxford  
1991–1994 B.A. Mathematics (first class), University of Oxford

### Visiting Positions

2006, 2008 One-month Visiting Professorships at École Normale Supérieure de Cachan

### Publications

Over 90 papers in peer-reviewed conferences and journals, including  
LICS/ICALP (23), CONCUR/FOSSACS (10), CAV/TACAS (7), STOC/SODA (4)  
Best-paper awards at ICALP'14 and CONCUR'11

### Grants

Verification of Linear Dynamical Systems (PI), EPSRC Established-Career Fellowship,  
2016-2021, GBP 1,006,000  
Counter Automata: Verification and Synthesis (PI), EPSRC, 2014-2017, GBP 242,000  
Model Checking Timed Systems (PI), EPSRC First Grant, 2010-2013, GBP 212,000  
Automated Verification of Probabilistic Programs (co-I), EPSRC, 2009-2011, GBP 290,000  
Extensions of the Church Synthesis Problem (PI), EPSRC, 2009-2010, GBP 61,000

**Service**

PC co-chair and co-organiser: 8th International Workshop on Reachability Problems, 2014  
PC co-chair and co-organiser: Annual Workshop on Games for Design and Verification 2010  
PC member: CSL'15, CONCUR'14, FoSSaCS'14, MFCS'13, MFPS'13, RP'13, TASE'13, FORMATS'12, ICALP'12, MFPS'12, FORMATS'11, MFCS'10, CALCO'09, FSTTCS'09, TIME'09, FICS'08, LICS'08, MFCS'07 , MFPS'07

**Recent Invited talks**

*35th Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS), Bangalore, 2015*  
*10th International Workshop on Fixed Points in Computer Science (FICS), Berlin, 2015*  
*26th Conference on Concurrency Theory (CONCUR), Madrid, 2015*  
*9th International Workshop on Reachability Problems (RP), Warsaw, 2015*  
*AutoMataA: Jewels of Automata: from Mathematics to Applications, Leipzig, 2015*  
*Computability in Europe (CiE), Budapest, 2014*  
*AlMoTh: Algorithmic Model Theory, Kassel, 2014*  
*QUANTLA: Quantitative Logics and Automata, Dresden, 2013*

**Short Courses**

*Probabilistic Techniques in Computer Science, Lyon, December 7-11, 2015.*  
*Machine Learning Theory, Warsaw, January 13-16, 2016.*

**Current Teaching and Administration**

2014-2015	<i>Computational Learning Theory</i> (16 lectures and 4 classes) <i>Logic and Proof</i> (16 lectures)
2013-2015	Course Director, MSc in Computer Science
2013-2015	Admissions Tutor, Green-Templeton College