

Sarah Zerbes

CONTACT INFORMATION	Department of Mathematics University College London Gower Street London WC1E 6BT	<i>Phone:</i> 0044 (0)207 679 2834 <i>email:</i> s.zerbes@ucl.ac.uk <i>homepage:</i> http://www.homepages.ucl.ac.uk/~ucahsze/
GENERAL INFORMATION	Nationality Date of Birth Marital Status	German 2nd of August 1978 Married
RESEARCH INTERESTS	Algebraic number theory, L -functions, automorphic forms, p -adic Hodge theory, Iwasawa theory	
ACADEMIC APPOINTMENTS	Professor, ETH Zürich Professor, University College London Reader, University College London Lecturer, University College London Lecturer, University of Exeter EPSRC postdoctoral fellow Chapman Fellow, Imperial College, London Hodge Fellow, IHES, Paris Marie Curie Fellow, Institut Henri Poincaré, Paris	<i>from 2022</i> <i>2016 - 2021</i> <i>2014 - 2016</i> <i>2012 - 2014</i> <i>2008 - 2012</i> <i>2008 - 2011</i> <i>2006 - 2008</i> <i>2005 - 2006</i> <i>March 2004 - June 2004</i>
UNIVERSITY EDUCATION	University of Cambridge, UK PhD in Pure Mathematics • Dissertation Title: “Selmer groups over non-commutative p -adic Lie extensions” • Advisor: Professor John Coates Mathematical Tripos Part III (with distinction) BA Hons. in Mathematics (first class)	<i>2002 - 2005</i> <i>2001 - 2002</i> <i>1998 - 2001</i>
GRANTS	EPSRC New Horizon Grant (joint with D. Loeffler) <i>Total value:</i> \sim £200,000 <i>Title:</i> The Birch–Swinnerton-Dyer conjecture: beyond dimension 1 ERC Consolidator Grant <i>Total value:</i> \sim €1,075,000 <i>Title:</i> Euler systems and the Birch–Swinnerton-Dyer conjecture Leverhulme Trust Research Fellowship <i>Total value:</i> \sim £43,000 EPSRC First Grant <i>Total value:</i> \sim £125,000 <i>Title:</i> p -adic Iwasawa theory for Galois representations Leverhulme Trust Research Fellowship (<i>declined</i>) <i>Total value:</i> \sim £40,000 EPSRC Postdoctoral Fellowship <i>Total value:</i> £239,542 <i>Title:</i> Explicit reciprocity laws for p -adic fields	<i>from January 2021</i> <i>since July 2015</i> <i>2014 - 2016</i> <i>2012 - 2014</i> <i>2012</i> <i>2009</i>

PRIZES AND HONOURS	Invited speaker at <i>ICM 2022</i> , St Petersburg	2022
	Simons Professorship, CRM, Montréal	postponed
	Whitehead prize (<i>joint with David Loeffler</i>), awarded by the LMS	2015
	Philip Leverhulme Prize (<i>joint with David Loeffler</i>)	2014
	Research Professor, MSRI, Berkeley	2014
	Nomination for the <i>UCL Students' Choice Teaching Award</i>	2014
	Rayleigh-Knight Research Prize, grade 1 (highest category of 4)	2004
ACADEMIC MEMBERSHIPS	Member of the American Mathematical Society	since 2015
	Member of the European Women in Mathematics Society	since 2011
	Fellow of the Higher Education Academy	since 2010
	Member of the London Mathematical Society (<i>Council member 2016 - 2018</i>)	since 2004
	Member of the National German Scholarship Foundation	1999 - 2002
INVITED CONFERENCES (SELECTION)	<i>ICM 2022</i>	2022
	<i>St Petersburg, Russia</i>	
	Journées Arithmétiques	2022
	<i>Nancy, France</i>	
	Number Theory Days	October 2021
	<i>Lausanne, Switzerland</i>	
	Workshop Alpbach 2021	September 2021
	<i>Alpbach, Austria</i>	
	LMS lecture at the <i>Joint Mathematics Meeting 2021</i>	January 2021
	<i>Virtually</i>	
	Workshop <i>Higher Coleman theory and applications</i>	December 2020
	(Lecture series, joint with D. Loeffler)	
	<i>Montréal, Canada</i>	
	FIM lecture	September 2020
	<i>Zürich, Switzerland</i>	
Heilbronn Annual Conference	September 2018	
<i>Bristol, UK</i>		
ICM Satellite Conference <i>Automorphic Forms, Galois Representations and L-functions</i>	July 2018	
<i>Rio de Janeiro, Brazil</i>		
Arizona Winter School 2018	March 2018	
<i>Arizona, US</i>		
Iwasawa Centenary Conference	July 2017	
<i>Tokyo, Japan</i>		
European Women in Mathematics Meeting, part of ECM 2016	July 2016	
<i>Berlin, Germany</i>		
Automorphic forms, Shimura varieties, Galois representations and L-functions	December 2014	
<i>MSRI, Berkeley, US</i>		
ICM Satellite conference <i>Automorphic forms and arithmetic</i>	August 2014	
<i>POSTECH, Korea</i>		
<i>LMS Durham Research Symposium</i> Automorphic forms and Galois representations	July 2011	

	<i>Durham, UK</i>	
	ICM satellite conference <i>Galois representations in arithmetic geometry</i> <i>Goa, India</i>	<i>August 2010</i>
ACADEMIC VISITS	CRM, Montréal	<i>postponed</i>
	Newton Institute, Cambridge, UK Programme <i>K-Theory, Algebraic Cycles and Motivic Homotopy Theory</i>	<i>March 2020</i>
	Morningside Centre, Beijing	<i>March 2019</i>
	Centre Bernoulli, Lausanne, Switzerland Programme <i>Euler systems and special values of L-functions</i>	<i>Autumn 2017</i>
	Institut des Hautes Etudes Scientifiques, France	<i>March 2017</i>
	Institute of Advanced Studies, Princeton	<i>March 2016</i>
	MSRI, Berkeley	<i>Autumn 2014</i>
	Newton Institute, Cambridge, UK Programme <i>Non-Abelian Fundamental Groups in Arithmetic Geometry</i>	<i>Autumn 2009</i>
	Tata Institute, Mumbai, India <i>Special Semester in Arithmetic Geometry</i>	<i>November 2008</i>
PHD STUDENTS	Wojtek Wawrow	<i>since 2020</i>
	Andrew Graham	<i>2018 - 2021</i>
	Giada Grossi	<i>2017 - 2020</i>
	Tibor Backhausz (joint supervision with Kevin Buzzard)	<i>2016 - 2019</i>
	Antonio Cauchi	<i>2015 - 2018</i>
POSTDOCTORAL ASSISTANTS	Dr. Alice Pozzi	<i>2018 - 2020</i>
	Dr. Alex Torzewski	<i>2018 - 2020</i>
	Dr. Chris Birkbeck	<i>since 2017</i>
	Dr. Joseph Kramer-Miller	<i>2016 - 2018</i>
	Dr. Joaquin Rodrigues Jacinto	<i>2016 - 2019</i>
	Dr. Guhan Venkat	<i>2015 - 2016</i>
TEACHING EXPERIENCE	University College London	<i>since 2012</i>
	Graduate course <i>Euler systems</i>	
	Graduate course <i>The geometry of modular curves</i>	
	3rd year lecture course <i>Algebraic number theory</i>	
	Supervision of LSGNT projects	
	Supervision of MMath theses	
	University of Exeter	<i>2009 - 2012</i>
	3rd year lecture course <i>Modern algebra</i>	
	4th year lecture course <i>Algebraic number theory</i>	
	Imperial College London	<i>2006 - 2008</i>
	3rd and 4th year lecture course <i>Representation theory of finite groups</i>	

	Classes for 1st and 2nd year engineering students (linear algebra, vector calculus) Supervision of 1st year essays	
	University of Cambridge	<i>2002 - 2005</i>
	Small group teaching of undergraduates (supervisions)	
CONFERENCE ORGANISATION	<i>Special Semester on Euler systems</i> at MSRI with H. Darmon, B. Howard, D. Loeffler, C. Skinner, W. Zhang	Spring 2023
	<i>Newton Institute workshop in honour of Peter Swinnerton-Dyer</i> with J.-L. Colliot-Thelene, M. Reid, A. Skorobogatov	May 2021
	Workshop <i>Automorphic p-adic L-functions and regulators</i> , Lille with M. Dimitrov and D. Loeffler	2019
	Conference <i>Elliptic curves, Modular forms and Iwasawa theory in honour of John Coates' 70th birthday</i> , Cambridge with T. and V. Dokchitser and D. Loeffler	2015
	<i>Number Theory Workshop at the BMC</i> , QMUL	2014
	Workshop <i>Iwasawa Theory and Galois Representations</i> , Warwick with S. Siksek, J. Coates and C. Wuthrich	2013
	LMS Regional Meeting <i>Iwasawa theory</i> , Exeter with N. Byott and A. Langer	2011
	Workshop <i>Geometric applications of p-adic Hodge theory</i> , Exeter with A. Langer	2009
PANEL MEMBERSHIP	<i>REF 2021 sub-panel in Mathematics</i>	
	External Scientific Advisory Board of the <i>Institute of Mathematics at UPC</i>	<i>since 2020</i>
	Hiring panel for the <i>Heilbronn fellowships</i>	<i>since 2019</i>
	<i>Prize Committee</i> of the London Mathematical Society	<i>since 2019</i>
	<i>Research Policy Committee</i> of the London Mathematical Society	<i>since 2019</i>
	Selection board of the <i>London School of Geometry and Number Theory</i>	<i>since 2018</i>
	<i>EPSRC Mathematical Sciences Fellowship Interview Panel</i>	<i>2019</i>
	<i>Conseil scientifique de la Fondation Sciences Mathématiques de Paris</i>	<i>since 2018</i>
	<i>Senior Promotions Panel</i> , UCL	<i>2018</i>
	Scientific advisory board of the biannual Iwasawa conferences	<i>since 2017</i>
	Member-at-large of the <i>Council of the London Mathematical Society</i>	<i>2016 - 2018</i>
	Management team for the <i>London School of Geometry and Number Theory</i>	<i>2015</i>
	<i>EPSRC Mathematics Prioritisation Panel</i>	<i>2014</i>
THESIS EXAMINATIONS	Sam Derbyshire (Kings College London)	<i>2017</i>
	Yukako Kezuka (University of Cambridge)	<i>2016</i>
	Daniel Ellam (University College London)	<i>2013</i>
	Chern-Yang Lee (University of Cambridge)	<i>2010</i>
	Marcin Krzywkowski (University of Exeter)	<i>2012</i>
OTHER PROFESSIONAL EXPERIENCE	Editor of <i>Mathematika</i>	<i>since 2018</i>

Co-organizer of the *London-Paris Number Theory Seminar*

since 2016

Co-organizer of the *London Number Theory Seminar*

2012 - 2017

I have also been invited to referee research papers for many international journals, as well as reviews for MathSciNet and Zentralblatt.

last updated: 06/08/2021