Rebecca Bellovin

Curriculum vitae

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Employment

2019–present Distributed systems engineer, Ably Realtime.

2018–2019 EPSRC postdoc, Imperial College London.

2015–2018 Junior Research Fellow, Imperial College London.

2014–2015 NSF postdoctoral fellow, University of California, Berkeley.

2013–2014 ERC postdoc, Imperial College London.

Education

2013 Ph. D., Stanford University.

Advisor: Brian Conrad

Thesis: p-adic Hodge theory in rigid analytic families

2008 **B.A.**, Columbia University.

Summa cum laude, with honors in mathematics

Preprints and Publications

- R. Bellovin. "Cohomology of (φ, Γ) -modules over pseudorigid spaces". Submitted. 2021. URL: https://arxiv.org/abs/2102.04820.
- [2] R. Bellovin. "Modularity of trianguline representations". Preprint. 2021. URL: https://arxiv.org/abs/2108.02823.
- [3] R. Bellovin. "Galois representations over pseudorigid spaces". Submitted. 2020. URL: https://arxiv.org/abs/2002.06687.
- [4] R. Bellovin and T. Gee. "G-valued local deformation rings and global lifts". In: Algebra Number Theory 13.2 (2019), pp. 333–378.
- [5] R. Bellovin and O. Venjakob. "Wach modules, regulator maps, and ε -isomorphisms in families". In: *Int. Math. Res. Not.* 16 (2019), pp. 5127–5204.
- [6] R. Bellovin. "Generic smoothness for G-valued potentially semi-stable deformation rings". In: Ann. Inst. Fourier (Grenoble) 66.6 (2016), pp. 2565–2620.
- [7] R. Bellovin. "p-adic Hodge theory in rigid analytic families". In: Algebra Number Theory 9.2 (2015), pp. 371–433.
- [8] R. Bellovin et al. "Newton polygons for a variant of the Kloosterman family". In: Women in numbers 2: research directions in number theory. Vol. 606. Contemp. Math. Amer. Math. Soc., Providence, RI, 2013, pp. 47–63.

Fellowships

- 2014–2015 NSF Mathematical Sciences Postdoctoral Research Fellowship, University of California, Berkeley.
- 2010–2012 NSF Graduate Research Fellowship, Stanford University.
- 2008–2010 RTG Fellowship, Stanford University.

Professional Service

Conferences

- October 2019 Co-organizer Modularity and Moduli Spaces, Casa Matematica Oaxaca (CMO), Mexico
 - July 2017 Teaching assistant Automorphic Forms and the Langlands Program, MSRI
 - March 2017 Project assistant Perfectoid Spaces, Arizona Winter School
- October 2016 Co-organizer Oberwolfach seminar on perfectoid spaces

Departmental service

- Fall 2016 Co-organizer London Number Theory Seminar
- 2015–2016 London School of Geometry and Number Theory (Ph.D. program) admissions committee

Refereeing

- Algebra & Number Theory
- Mathematische Zeitschrift
- Commentarii Mathematici Helvetici
- Journal of Number Theory

Invited Talks

2021	Zoom	Recent Advances in Modern p-Adic Geometry
2019	Durham University	Algebra and Number Theory Seminar
2018	University of Exeter	Workshop on Stark's conjectures, Iwasawa theory and related topics
2017	Cambridge University	Number Theory Seminar
2017	University of Amsterd	dam Arithmetic and Algebraic Geometry seminar
2017	Oxford University	Number Theory Seminar
2017	Warwick University	Number Theory Seminar
2016	Indiana University	$Conference\ on\ the\ p\text{-}adic\ Langlands\ programme\ and}$ $related\ topics$
2016	Universität Duisburg-	Essen Essener Seminar für Algebraische Geometrie und Arithmetik
2016	Universität Heidelber	g Seminar der Forschergruppe 'Symmetrie, Geometrie und Arithmetik'

2015	University of Bristol	$Heilbronn\ Number$	$Theory\ Seminar$
2015	AMS Summer Institute in Algebraic Geometry		
2015	Northwestern University	Number	$Theory\ Seminar$
2015	University of Chicago	Number	$Theory\ Seminar$
2015	University of California, Los Angeles	Number	$Theory\ Seminar$
2014	Universität Heidelberg Seminar der Fo	rschergruppe 'Symn	netrie, Geometrie und Arithmetik'
2014	British Mathematical Colloquium		
2014	Cambridge University	Number	$Theory\ Seminar$
2013	London Number Theory Seminar		
2013	University of California, Berkeley	Number	$Theory\ Seminar$
2013	Boston University	Number	$Theory\ Seminar$
2013	University of California, San Diego	Number	Theory Seminar

Teaching

July 2017 Teaching assistant.

Teaching assistant for graduate course given by Kevin Buzzard at MSRI.

Spring 2017 Instructor.

Taught 'Group Representation Theory' to third- and fourth-year undergraduates at Imperial College.

March 2017 Project assistant.

Project assistant for graduate course given by Jared Weinstein at Arizona Winter School.

Spring 2013 Teaching assistant.

Administrative teaching assistant for Math 51 at Stanford. Organized other TAs and students' extensions, absences, and accommodations.

Fall 2010 Teaching assistant.

Teaching assistant for Math 51 at Stanford. Taught section, held office hours, and graded exams.

Summer Counselor.

2005, 2008 Counselor at PROMYS. Supervised students, helped with problem sets, and gave lectures to high school students and college students.

2006–2008 Course assistant.

Undergraduate course assistant at Columbia University. Responsible for grading problem sets, holding office hours, and sometimes leading discussion section for the following courses:

- Math W4045: Algebraic Curves
- Math W4042: Introduction to Modern Algebra II (Galois theory)
- Math V3025: Making and Breaking Codes
- Math V1207: Honors Mathematics A (calculus and linear algebra)

Supervision

2017 David Nielsen-Scott, 'Weil Conjectures for Algebraic Curves'

M4R essay, Imperial College

References

- Prof. Kevin Buzzard

 Department of Mathematics

 Imperial College London

 kevin.m.buzzard@gmail.com

 (teaching)
- Prof. Brian Conrad Department of Mathematics Stanford University conrad@math.stanford.edu
- Prof. Toby Gee

 Department of Mathematics
 Imperial College London
 tobygee@fastmail.com
- Prof. Kiran Kedlaya
 Department of Mathematics
 University of California, San Diego kedlaya@ucsd.edu