

Rebecca Bellovin

Curriculum vitae

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📄 <https://rmbellovin.github.io>

Employment

- 2022– Rankin–Sneddon Fellow, *University of Glasgow*.
- 2019–2021 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

- [1] R. Bellovin. “Modularity of trianguline representations”. Submitted. 2021. URL: <https://arxiv.org/abs/2108.02823>.
- [2] R. Bellovin. “Cohomology of (φ, Γ) -modules over pseudorigid spaces”. Submitted. 2021. URL: <https://arxiv.org/abs/2102.04820>.
- [3] R. Bellovin. “Galois representations over pseudorigid spaces”. Submitted. 2020. URL: <https://arxiv.org/abs/2002.06687>.
- [4] R. Bellovin and O. Venjakob. “Wach modules, regulator maps, and ε -isomorphisms in families”. In: *Int. Math. Res. Not.* 16 (2019), pp. 5127–5204.
- [5] R. Bellovin and T. Gee. “ G -valued local deformation rings and global lifts”. In: *Algebra Number Theory* 13.2 (2019), pp. 333–378.
- [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

- August 2021 Project co-leader *A Pair of Automorphic Workshops*
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

- 2022 Simons Symposium on p -adic Hodge Theory
2021 Canadian Mathematical Society Winter Meeting
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 Amsterdam *Arithmetic and Algebraic Geometry seminar*
2017 Oxford University *Number Theory Seminar*

2017	Warwick University	<i>Number Theory Seminar</i>
2016	Indiana University	<i>Conference on the p-adic Langlands programme and related topics</i>
2016	Universität Duisburg-Essen	<i>Essener Seminar für Algebraische Geometrie und Arithmetik</i>
2016	Universität Heidelberg	<i>Seminar der Forschergruppe ‘Symmetrie, Geometrie und Arithmetik’</i>
2015	University of Bristol	<i>Heilbronn Number Theory Seminar</i>
2015	AMS Summer Institute in Algebraic Geometry	
2015	Northwestern University	<i>Number Theory Seminar</i>
2015	University of Chicago	<i>Number Theory Seminar</i>
2015	University of California, Los Angeles	<i>Number Theory Seminar</i>
2014	Universität Heidelberg	<i>Seminar der Forschergruppe ‘Symmetrie, Geometrie und Arithmetik’</i>
2014	British Mathematical Colloquium	
2014	Cambridge University	<i>Number Theory Seminar</i>
2013	London Number Theory Seminar	
2013	University of California, Berkeley	<i>Number Theory Seminar</i>
2013	Boston University	<i>Number Theory Seminar</i>
2013	University of California, San Diego	<i>Number Theory Seminar</i>

Teaching

- Fall 2022 **Instructor.**
Teaching ‘Introduction to Real Analysis’ to second-year undergraduates at the University of Glasgow.
- Spring 2022 **Instructor.**
Taught ‘Galois Theory’ to fourth-year undergraduates at the University of Glasgow.
- 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
`toby.gee@imperial.ac.uk`
- Prof. David Savitt
Department of Mathematics
Johns Hopkins University
`savitt@math.jhu.edu`