

Rebecca Bellovin

Curriculum vitae

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🌐 <https://rmbellovin.github.io>

Employment

- 2023–2024 **Member**, *Institute for Advanced Study*
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”. To appear in *Int. Math. Res. Not.* URL: <https://arxiv.org/abs/2102.04820>.
- [3] R. Bellovin. “Galois representations over pseudorigid spaces”. To appear in *J. de Théor. Nombres Bordeaux*. 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

- 2023 Universität Heidelberg *Non-archimedean geometry and eigenvarieties*
- 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*

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| 2017 | Oxford University | <i>Number Theory Seminar</i> |
| 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

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| Spring 2023 | Instructor Teaching ‘Maths 1’ (Introduction to pure mathematics) to first-year undergraduates at the University of Glasgow |
| 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 2005, 2008 **Counselor**
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. Tara Brendle
School of Mathematics and Statistics
University of Glasgow
`tara.brendle@glasgow.ac.uk`
(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`