Rebecca Bellovin
Curriculum Vitae
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Employment

- Imperial College, EPSRC postdoc, 2018-present.
- Imperial College, Junior Research Fellow, 2015-2018
- University of California, Berkeley, NSF postdoc, 2014–2015
- Imperial College, ERC postdoc, 2013–2014

Education

- 2013: Ph.D., Stanford University, Department of Mathematics
  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. "Galois representations over pseudorigid spaces". In preparation. 2019.

[2] R. Bellovin and T. Gee. "G-valued local deformation rings and global lifts". In: *Algebra & Number Theory* 13.2 (2019). URL: https://doi.org/10.2140/ant.2019.13.333.

[3] R. Bellovin and O. Venjakob. "Wach modules, regulator maps, and epsilon-isomorphisms in families". In: *Int. Math. Res. Not.* (2019). To appear. URL: https://arxiv.org/abs/1610.09920.

[4] R. Bellovin. "Generic smoothness for G-valued potentially semi-stable deformation rings". In: *Ann. Inst. Fourier (Grenoble)* 66.6 (2016), pp. 2565–2620. ISSN: 0373-0956. URL: http://aif.cedram.org/item?id=AIF_2016__66_6_2565_0.

[5] R. Bellovin. "p-adic Hodge theory in rigid analytic families". In: *Algebra & Number Theory* 9.2 (2015), pp. 371–433. ISSN: 1937-0652. DOI: 10.2140/ant.2015.9.371. URL: https://doi.org/10.2140/ant.2015.9.371.

[6] 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. DOI: 10.1090/conm/606/12139. URL: https://doi.org/10.1090/conm/606/12139.

Fellowships

- NSF Mathematical Sciences Postdoctoral Research Fellowship; 2014-2015
- NSF Graduate Fellowship (Stanford); 2010–2012
- RTG Graduate Fellowship (Stanford); 2008–2010

Professional service

Conferences

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

Departmental service

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

Invited talks

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, Number Theory Seminar

2016 Indiana University, Conference on the p-adic Langlands programme and related topics

2016 Essener Seminar für Algebraische Geometrie und Arithmetik

2016 Universität Heidelberg, 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 UCLA Number Theory Seminar

2014 Universität Heidelberg, Seminar der Forschergruppe 'Symmetrie, 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 Columbia University, Number Theory Seminar

2013 Boston University, Number Theory Seminar

2013 University of California, San Diego, Number Theory Seminar

Teaching

- **Spring 2017:** Taught 'Group Representation Theory' to third and fourth year undergraduates at Imperial College.
- **March 2017:** Assistant for course given by Jared Weinstein at the Arizona Winter School
- **Fall 2010:** Teaching assistant for Math 51 at Stanford. Taught section, held office hours, and graded exams.
- **Summer 2005, 2008:** Counselor at PROMYS. Supervised students, helped with problem sets, and gave lectures to high school students and college students.
- **2006–2008:** Teaching assistant (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

- David Nielsen-Scott, "Weil Conjectures for Algebraic Curves". M4R essay, Imperial College, 2017.

References

Prof. Kevin Buzzard
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(teaching)

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