

# Ariel Weiss

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## EDUCATION

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- 2015-:** University of Sheffield PhD in Mathematics  
Supervisor: Dr. Tobias Berger
- 2014-15:** University of Cambridge, Queens' College Part III Mathematics (MMath)  
Part III essay supervisor: Dr. Jack Thorne  
Part III essay title: *Serre's modularity conjecture*
- 2011-14:** University of Cambridge, Queens' College B.A. in Mathematics.
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## RESEARCH INTERESTS

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**Keywords:** Galois representations, Siegel modular forms, Langlands programme

I am interested in Galois representations and their connection to automorphic representations, with a particular focus on the Galois representations associated to low weight Siegel modular forms.

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## PUBLICATIONS

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*On the image of Galois representations associated to low weight Siegel modular forms*, preprint [arXiv 1802.08537](https://arxiv.org/abs/1802.08537)

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## RESEARCH TALKS

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- March 2018: *Irreducibility of Galois representations associated to low weight Siegel modular forms*, 32nd Automorphic Forms Workshop, Tufts, MA
  - December 2017: *Irreducibility of Galois representations associated to low weight Siegel modular forms*, Number theory seminar, Sheffield
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## TEACHING EXPERIENCE

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**Tutorial lead demonstrator:**

MAS220, Algebra - Autumn Semester 2017/18

**Tutorial assistant:**

MAS114, Numbers and Groups - Spring Semester 2017/18  
STEP preparation classes - Spring Semester 2017/18  
MAS114, Numbers and Groups - Autumn Semester 2017/18  
MAS114, Numbers and Groups - Spring Semester 2016/17  
STEP preparation classes - Spring Semester 2016/17  
MAS114, Numbers and Groups - Autumn Semester 2016/17  
MAS111, Mathematics Core 1 - Spring Semester 2015/16  
STEP preparation classes - Spring Semester 2015/16

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## ORGANISATIONAL ACTIVITIES

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- Co-organiser: ShEAF, Sheffield pure mathematics postgraduate seminar, 2017/18
  - Co-organiser: BSD/Bloch-Kato reading group, Summer 2017
  - Co-organiser: Galois representations reading group, Summer 2016
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## CONFERENCES ATTENDED

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- March 2018: *32nd Automorphic forms workshop*, Medford, USA
- March 2018: *Arizona Winter school on Iwasawa theory*, Tucson, USA
- January 2018: *UK-Japan Winter school on number theory*, London, UK
- September 2017: *Curves, L-functions and Galois representations*, Trieste, Italy
- February 2017: *p-adic methods for Galois representations and modular forms*, Barcelona, Spain
- February 2017: *Lecture series on Siegel modular forms and abelian surfaces*, Barcelona, Spain
- September 2016: *Automorphic forms: theory and computation*, London, UK
- August 2016: *Galois representations and automorphic forms*, Bedlewo, Poland
- June 2016: *p-adic L-functions day*, Cambridge, UK
- February 2016: *L-functions and automorphic forms*, Heidelberg, Germany