# David Loeffler – Curriculum Vitae

#### **Contact Details**

Name:	LOEFFLER, David Alexander
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## **Current Position**

2018-	Professor, Mathematics Institute, University of Warwick, UK
2021–26	Visiting Professor, Department of Mathematics, ETH Zürich, Switzerland
	(25% part-time position)

## **Previous Positions**

2016–18	Reader	)
2014-16	Associate Professor	Mathematics Institute,
2013–14	Assistant Professor	University of Warwick, UK
2010-13	Zeeman Lecturer	J
2008–10	Junior Research Fellow,	Churchill College, University of Cambridge, UK

# Education

2005-08	PhD Mathematics, University of London (Imperial College), UK. Supervisor: Kevin Buzzard. Thesis title: <i>Overconvergent algebraic automorphic forms</i> .
2004-05	Mathematical Tripos Part III, University of Cambridge, UK.
2001-04	BA (Hons) Mathematics, University of Cambridge, UK.
1994-01	Cotham School, Bristol.

## **Research Prizes**

2015	London Mathematical Society Whitehead Prize (shared with Sarah Livia Zerbes).
2014	Philip Leverhulme Prize (shared with Sarah Livia Zerbes).

#### **Research Grants**

2021–26	ERC Consolidator Grant <i>Shimura varieties and the BSD conjecture</i> . Value: €1.7m.
2021-23	EPSRC New Horizons grant The Birch–Swinnerton-Dyer conjecture: beyond dimension
	1 (joint with Sarah Zerbes). Total value: £200,000.
2019–22	EPSRC Standard Grant P-adic L-functions and reciprocity laws. Value: £322,484.
2017–20	Royal Society URF Enhancement Award. Value: £98,442.
2017–20	Renewal of Royal Society University Research Fellowship. Value: £271,200.
2015–17	50% share of 2014 Philip Leverhulme Prize. Value: £50,000.
2012–17	Royal Society University Research Fellowship L-functions and Iwasawa theory. Value:
	£505,029.
2011	Monash-Warwick Strategic Funding Initiative grant Computations on supersingular
	elliptic curves (co-investigator). Value: £7,750.
2008-11	EPSRC Postdoctoral Fellowship Eigenvarieties for compact reductive groups. Value:
	£347,369.

#### **Teaching Experience**

I have been responsible for numerous mathematics lecture courses, at levels ranging from introductory algebra courses for audiences of 300+ undergraduates, to advanced graduate courses on contemporary research topics for starting PhD students.

I have also acted as personal tutor for groups of Warwick undergraduates, supervised numerous final-year MMath / MASt dissertation projects, and led several "study groups" (learning seminars) for PhD students in number theory. Since 2019 I have served on the admissions committee for Warwick's mathematics PhD programme.

## **Research Supervision**

PhD	Chris Williams (2012–16)	Xenia Dimitrakopolou (2020–)
students:	Alessandro Arlandini (2016–20)	Muhammad Manji (2020–)
	Rob Rockwood (2018–)	Arshay Sheth (2021–)
	Zeping Hao (2019–)	
Postdocs:	Guhan Venkat Harikumar (2016–17) Pak-Hin Lee (2019–22)	Óscar Rivero Salgado (2021–3)

#### Invited talks and lecture series (selection)

2022	Invited speaker, International Congress of Mathematicians, St Petersburg, Russia
	(joint with S.L. Zerbes).
2018	Lecture course Euler Systems (joint with S.L. Zerbes), part of Arizona Winter School
	on Iwasawa Theory, Southwest Centre for Arithmetic Geometry, U. of Arizona, US.
2017	Speaker at Workshop on Motives, Galois Representations and Cohomology Around the
	Langlands Program, Insitute of Advanced Study, Princeton, US.

- 2017 Preparatory lecture series *Euler systems*, conference *Iwasawa* 2017 (in honour of centenary of birth of K. Iwasawa), University of Toyko, Japan.
- 2015 Plenary speaker at *Journees Arithmetiques*, University of Debrecen, Hungary.

#### **Organisation of Scientific Meetings**

- 2023 Member of scientific committee for semester programme *Algebraic cycles, L-values and Euler systems,* Mathematical Sciences Research Institute, Berkeley, US.
- 2019 Member of organising committee for workshop *p-adic L-functions for symplectic groups*, Laboratoire Paul Painlevé, University of Lille, France (approx. 50 participants).
- 2015 Member of organising committee for conference *Elliptic curves, modular forms and Iwasawa theory* in Cambridge, UK, in honour of J.H. Coates' 70th birthday (approx. 170 participants). I was also one of the two editors of the proceedings volume for this conference, published by Springer.
- 2013 Co-organiser of two conferences *Higher rank automorphic forms and L-functions* and *Explicit methods for modular forms*, University of Warwick, UK (each approx. 40 participants)

## **Reviewing Activities**

- Member of editorial boards of journals *Mathematika*, *Research in Number Theory*, and *Revista Math. Iberoamericana*.
- Member of External Advisory Board of the Heilbronn Institute for Mathematical Research, Bristol, UK.
- External reviewer of grant applications for funding bodies including European Research Council, EPSRC (UK), NSERC (Canada), NSA (US).
- Peer-reviewer for research journals including *Annals of Mathematics, Inventiones Math., Duke Math. J.* and *J. Amer. Math. Soc.*

## Languages

- English: native language
- German: intermediate
- French, Spanish: basic

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