

Curriculum vitae – Christian Johansson

Personal details

Full name Hans Christian Johansson
Date of birth 4 August 1985
Nationality Swedish
Address Department of Pure Mathematics and Mathematical Statistics
Centre for Mathematical Sciences
Wilberforce Road
Cambridge CB3 0WB
United Kingdom
Email hcj24@cam.ac.uk
Homepage <https://www.dpmms.cam.ac.uk/~hcj24/>

Employment

09/2016 – Herchel Smith Postdoctoral Research Fellow,
DPMMS, University of Cambridge, UK

01/2015 – 07/2016 Member, School of Mathematics, Institute for Advanced Study,
Princeton, USA

08/2014 – 12/2014 Postdoctoral Research Fellow, Mathematical Sciences Research
Institute, Berkeley, USA

04/2013 – 07/2014 Senior Research Fellow, Mathematical Institute,
University of Oxford, UK

Fellowships and visiting positions

10/2016 – College Research Associate, Clare College,
University of Cambridge, UK

10/2013 – 07/2014 Nicholas Kurti Junior Research Fellow, Brasenose College,
University of Oxford, UK

01/2012 – 03/2012 Scientific researcher, Thematic program on Galois representations
Fields Institute, Toronto, Canada

Education

- 09/2009 – 03/2013 PhD student, Imperial College London, UK
Advisors: Prof. Kevin Buzzard and Dr. Toby Gee
Viva date: 6 June 2013.
- 10/2008 – 06/2009 Certificate of Advanced Study in Mathematics (Part III)
Clare College, University of Cambridge, UK
Distinction
- 10/2005 – 06/2008 BA Mathematics
Clare College, University of Cambridge, UK
First Class Honours all three years
- 08/2004 – 06/2005 Göteborg University, Sweden
Mathematics 63 hp
Mathematical Logic 37.5 hp
All courses passed with VG (“pass with distinction”)

Teaching experience

- 10/2016 – 12/2016 Lecturer, “Local Fields”, 4th year master's level course,
University of Cambridge
- 10/2016 – 12/2016 Supervisor, “Analysis II”, 2nd year undergraduate course,
Clare College, University of Cambridge
- 01/2014 – 03/2014 Lecturer, “Adic spaces”, graduate course, University of Oxford
- 10/2013 – 12/2013 Class Tutor, “Introduction to Representation Theory”, 3rd year
undergraduate course, University of Oxford
- 10/2013 – 12/2013 Class Tutor, “Commutative Algebra”, 4th year
master's level course, University of Oxford
- 01/2010 – 03/2010 Marker of graded homework for 3rd/4th year undergraduate course
“Algebraic Number Theory”, Imperial College London
- 06/2008 – 08/2008 Teaching assistant for a foundational course for students about to enter
university, Göteborg University

Publications and Preprints (may be found at <https://www.dpmms.cam.ac.uk/~hcj24/>)

1. Classicality for small slope overconvergent automorphic forms on some compact PEL Shimura varieties of type C. **Math. Annalen.**, vol. **357(1)**, pp **51-88 (2013)**.
2. A remark on a conjecture of Buzzard-Gee and the cohomology of Shimura varieties. **Math. Research Letters**, vol. **20(2)**, pp **279-288 (2013)**.
3. On the Sato-Tate conjecture for non-generic abelian surfaces. With an appendix by Francesc Fite. **To appear in Transactions of the A.M.S.**
4. A trace formula approach to control theorems for overconvergent automorphic forms. **Manuscripta Mathematica**, vol. **151(1)**, pp **19-48 (2016)**.
5. A canonical dimension estimate for non-split semisimple p-adic Lie groups. With Konstantin Ardakov. **Representation Theory**, vol. **20**, pp **128-138 (2016)**.
6. Overconvergent modular forms and perfectoid Shimura curves. With Przemyslaw Chojecki and David Hansen. **To appear in Documenta Mathematica**.
7. Extended eigenvarieties for overconvergent cohomology. With James Newton. Submitted.

Organization and service

09/2015 – 06/2016 Organizer, IAS/Princeton University Number Theory Seminar

01/2014 – 07/2014 Organizer, Oxford Number Theory Seminar

10/2013 Organizer, “Number Theory Day”, one-day internal conference, University of Oxford

Journal referee: Algebra and Number Theory, International Mathematical Research Notices, Women in Numbers

Awards and scholarships

Yael Dowker Centenary Prize, Imperial College London 2013

Owst Prize in Mathematics, Clare College 2008

Scholarship from Felix Neuberghs resestipendiefond, 2006-2009
Total value 91,000 SEK

Invited talks

01/2016	Boston University, Number Theory Seminar
10/2015	Johns Hopkins University, Number Theory Seminar
10/2015	University of Chicago, Number Theory Seminar
10/2015	Northwestern University, Number Theory Seminar
05/2015	Chalmers University of Technology, Number Theory Seminar
10/2014	MSRI, Postdoctoral Seminar
10/2014	Stanford University, Number Theory Seminar
06/2014	Adam Mickiewicz University, Poznan, Number Theory Seminar
02/2014	"Frobenius distributions on curves", CIRM Luminy
11/2013	London-Paris Number Theory seminar, Institut de Mathématiques de Jussieu
09/2013	University of Bristol, Heilbronn Seminar
06/2013	"Géométrie Arithmétique p-adique", ENS Lyon
04/2013	Ecole Normale Supérieure de Lyon, Number Theory Seminar
03/2013	British Mathematical Colloquium, University of Sheffield Number Theory Workshop
01/2013	University of Oxford, Number Theory Seminar
10/2012	University of Warwick, Number Theory Seminar
10/2012	University of Cambridge, Number Theory Seminar
06/2012	King's College London, London Number Theory Seminar

Language skills

English (fluent)
Swedish (native)
French (basic)