Håvard Damm-Johnsen

Citizenship: Norwegian
Date of birth: June 24th 1997
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Education	**University of Oxford**	Oxford, UK
	DPhil in Mathematics	Oct. 2020 – Present
	Advisors: James Newton and Jan Vonk	
	University of Edinburgh	Edinburgh, UK
	BSc with honours in Mathematics	Sep. 2016 – June 2020
	First class degree, with A1 average	
	2018-2019: exchange year at Caltech	

Publications

Modular algorithms for Gross–Stark units and Stark–Heegner points
Håvard Damm-Johnsen. arxiv: 2301.08977
To appear in *Contemporary Mathematics*

Teaching experience

University of Oxford		
Junior number theory seminar *organiser*		2022 - Present
Automorphic representations learning seminar *organiser*		Hilary term 2023
Prelims: Linear Algebra II (3 sections) *tutor*		Hilary term 2023
Prelims: Geometry *tutor*		Michaelmas term 2022
Prelims: Linear Algebra I (2 sections) *tutor*		Michaelmas term 2022
TOPS summer school *instructor*		Summer 2023
Part A: Number Theory short option *tutor*		Trinity term 2022
Part B: Galois Theory *tutor*		Michaelmas term 2021
Étale cohomology learning seminar *organiser*		Trinity term 2021
Part C: Elliptic Curves *teaching assistant*		Hilary term 2021
Part B: Commutative Algebra *teaching assistant*		Hilary term 2021
Part B: Galois Theory *teaching assistant*		Michaelmas term 2020

Invited talks

Modular algorithms for Gross–Stark units and Stark–Heegner points Sep. 7th 2023
Y-RANT V: Young Researchers in Algebraic Number Theory
Modular algorithms for Gross–Stark units and Stark–Heegner points Jul. 12th 2023
LMFDB, Computation, and Number Theory (LuCaNT) conference

Computing Gross-Stark units using Hilbert modular forms Dec. 7th 2022
University of Bristol Linfoot number theory seminar
Computing Gross-Stark units using Hilbert modular forms Oct. 17th 2022

Last updated: August 30, 2023

University of Warwick junior number theory seminar

Representations of Galois groups May. 13th 2022

University of Oxford junior algebra and representation theory seminar

Deformations of diagonal Hilbert Eisenstein series Feb. 25th 2022

University of Cambridge junior algebra and number theory seminar

Computing p-adic L-functions over real quadratic fields Oct. 11th 2021

University of Oxford junior number theory seminar

Computing p-adic L-functions using Hilbert Eisenstein series Aug. 18th 2021

Y-RANT III: Young Researchers in Algebraic Number Theory

Local-to-global principles and a theorem of Siegel Jan. 25th 2021

University of Oxford junior number theory seminar

Honours & scholarships		
Aker Scholarship		2020 - Present
Covers course and college fees		
Choral bursary		2022 - Present
University College Chapel Choir, Oxford		
Graduate Choral Scholarship		2020 - 2021
Queen's College Chapel Choir, Oxford		
Vacation Scholarships		2019
University of Edinburgh School of Mathematics		
& College of Science and Engineering		
Edinburgh Global Undergraduate Scholarship		2018

Conferences & workshops attended		
2023 FLINT development workshop		9-13/10/23
RPTU Kaiserslautern, Germany		
Conference for Young Number Theorists in Bonn		11-15/09/23
Bonn, Germany		
Young Researchers in Algebraic Number Theory (Y-RANT) V		6-8/09/23
Cambridge, United Kingdom		
LMFDB, Computation, and Number Theory (LuCaNT)		10-14/07/23
ICERM, Providence, Rhode Island		
Spring School on eigenvarieties		6-17/03/23
Heidelberg, Germany		
Number theory informed by computation		17/07-06/08/22
Park City Mathematical Institute, Utah		
Arizona Winter School 2022: Automorphic forms beyond GL_2		5-9/03/22
Tucson, Arizona		
Arithmetic and Geometry of Varieties with Trivial Canonical Bundle		14-16/12/21
Oslo, Norway		
Young Researchers in Algebraic Number Theory (Y-RANT) III		18-20/08/2021

University of Bristol (online)

Number theory informed by computation 26-30/07/2021

Park City Mathematical Institute, Utah (online)

Theta Series: Representation Theory, Geometry, and Arithmetic 05-09/07/21

Fields Institute (online)

New connections in number theory and physics 24-28/05/21

Isaac Newton Institute (online)

Unlikely Intersections, Diophantine geometry, and related fields 12-16/04/21

University of Reading (online)

| Further research experience | **NSM Summer Internship** | June – Aug. 2020 |

Post-quantum cryptography

Norwegian National Security Authority

Vacation research project June – Sep. 2019

Singular minimisers in the Calculus of Variations

With Richard Gratwick