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*

Invited talks

Diagonal Restrictions of Hilbert Eisenstein series

Oct. 31st 2023

University of Cambridge number theory seminar

Diagonal Restrictions of Hilbert Eisenstein series

Oct. 24th 2023

University of Sheffield number theory seminar

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

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 &	Aker Scholarship	2020 - Present
scholarships	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
Service	Conference co-organiser	2023-24
	Y-RANT VI: Young Researchers in Algebraic Number Theory	
	Graduate student representative	2020 - Present
	University of Oxford Library Committee	
Teaching experience	University of Oxford	
8 1 1 1	Automorphic and Galois representations study group organise	er 2023 - present
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	Junior number theory seminar organiser	2022 - 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 <i>tutor</i>	Trinity term 2022
	Part B: Galois Theory <i>tutor</i>	Michaelmas term 2021
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	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
Conferences &	2023 FLINT development workshop	9-13/10/23
workshops attended	RPTU Kaiserslautern, Germany	, ,
r	Conference for Young Number Theorists in Bonn	11-15/09/23
	Bonn, Germany	
	Young Researchers in Algebraic Number Theory (Y-RANT) \	6-8/09/23
	Cambridge, United Kingdom	0 0/0//29
	LMFDB, Computation, and Number Theory (LuCaNT)	10-14/07/23
	ICERM, Providence, Rhode Island	10 11/07/25
	Spring School on eigenvarieties	6-17/03/23
	Heidelberg, Germany	0-1//03/23
	redebetg, Germany	
	Number theory informed by computation	17/07-06/08/22

Park City Mathematical Institute, Utah	Park City	Mathematical	Institute,	Utah
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Arizona Winter School 2022: Automorphic forms beyond GL₂ 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

Programming experience

Magma proficient Sage proficient Julia familiar

C, Rust familiar Elisp proficient

html/css/bash/linux/git etc sufficient