

Søren Gammelgaard

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CURRENT EMPLOYMENT

Scuola Internazionale Superiore di Studi Avanzati, Via Bonomea 265, 34136 Trieste, Italy
Post-doctoral researcher (Assegnista di Ricerca)

EDUCATION

University of Oxford, Oxford, United Kingdom

- DPhil in Mathematics
• Thesis: *Quiver Varieties and Moduli Spaces of Sheaves on Singular Surfaces*
• Supervisor: Professor Balázs Szendrői
• Focus: Quiver varieties, singular surfaces, moduli spaces.

Oct 2018 – Sep 2022

University of Oslo, Oslo, Norway

- MSc in Mathematics
• Thesis: *Cubic hypersurfaces, their Fano schemes, and special subvarieties*
• Supervisor: Professor John Christian Ottem
• Focus: Cubic hypersurfaces, Fano schemes, Chow rings.
• Grade awarded: A.
- BSc in Mathematics
• Average grade: A.

Aug 2016 – Jun 2018

Aug 2014 – Jun 2016

CONFERENCES AND EXTERNAL TALKS

GAeLXXVII, Bucharest, Jun 2019

- Presented a poster about my work on Hilbert schemes of singular surfaces.

UCL/KCL Junior Geometry Seminar London, Jan 2022

- I gave a talk about my work on moduli spaces attached to Kleinian singularities.

Algebraic Geometry Seminar, University of Oslo Oslo, Mar 2022

- I gave a talk about Hilbert schemes of Kleinian singularities and quiver varieties.

Algebraic Geometry Seminar, KTH Royal Institute of Technology Stockholm, Apr 2022

- I spoke about my work on moduli spaces attached to Kleinian singularities.

Symplectic singularities in geometry and representation theory, CIRM, Marseille, Apr 2022

- At this research school, I again gave a talk about my work on moduli spaces attached to Kleinian singularities.

A day of geometry in Glasgow, University of Glasgow, Aug 2022

- Talked about the work in my doctoral thesis.

Quiver Representations, Quiver Varieties and Combinatorics, Jun 2023

- I talked about quiver varieties and the geometry of Hilbert schemes.

PUBLICATIONS

- [1] A. Craw, S. Gammelgaard, Á. Gyenge, and B. Szendrői, “Punctual Hilbert schemes for Kleinian singularities as quiver varieties,” *Algebraic Geometry*, vol. 8, issue 6, pp. 680–704, Nov 2021. Available [here](#).
- [2] A. Craw, S. Gammelgaard, Á. Gyenge, and B. Szendrői, “Quot Schemes for Kleinian Orbifolds,” *SIGMA (Symmetry, Integrability and Geometry: Methods and Applications)*, vol. 17, no. 099, Nov 2021. Available [here](#).

PREPRINTS

“Quiver Varieties and Framed Sheaves on Compactified Kleinian Singularities”, available [here](#), submitted.
“Moduli spaces of framed sheaves on compactified Kleinian singularities”, available [here](#).

SCHOLARSHIP

- Aker Scholarship,
Scholarship with stipend for advanced graduate studies at a top international university.

2018 – 2022

WORK EXPERIENCE

University of Oxford, Oxford, United Kingdom

- Several positions as Teaching Assistant and Tutor:
 - Oct 2018 – Dec 2018: TA in Galois Theory.
 - Oct 2019 – Dec 2019: TA in Galois Theory.
 - Jan 2020 – Mar 2020: TA in Commutative Algebra.

	<ul style="list-style-type: none"> •Jan 2021 –Mar 2021: TA in Algebraic Curves. •Oct 2021 –Dec 2021: TA in Homological Algebra. •Jan 2022 –Mar 2022: Tutor in Algebraic Curves. 	
	St Peter’s College, University of Oxford , Oxford, United Kingdom	
	<ul style="list-style-type: none"> ▪ Tutor in Topology. 	Jan 2020 – Mar 2020
	Department of Mathematics, University of Oslo , Oslo, Norway	
	<ul style="list-style-type: none"> ▪ Several positions as Teaching Assistant, in Calculus and Linear Algebra. 	Aug 2015 – Dec 2017
	Sommerskolen Oslo (<i>Oslo Summer School</i>), Oslo, Norway	
	<ul style="list-style-type: none"> ▪ Taught mathematics at a summer school for high school students. 	2016 – 2018
OTHER ACTIVITIES	Taruithorn, the Oxford Tolkien Society , University of Oxford	
	<ul style="list-style-type: none"> ▪ Secretary • Responsibility for handling correspondence, booking external speakers, administrative work. 	Jan 2021 – Feb 2022
	Balliol College Middle Common Room , University of Oxford	
	<ul style="list-style-type: none"> ▪ Secretary • Responsibility for scheduling meetings, taking minutes, setting agendas, and handling external correspondence. 	Jun 2019– Jun 2020
	Matematisk Ordliste (<i>Mathematical Wordlist</i>), University of Oslo, University of Agder, Norwegian University of Science and Technology, Norwegian Language Council,	
	<ul style="list-style-type: none"> ▪ Lexicography relating to algebraic geometry • I documented and suggested about 250 Norwegian translations from English of scientific terms in algebraic geometry and adjacent fields of mathematics. 	May 2019
LANGUAGES	<ul style="list-style-type: none"> ▪ Norwegian, Danish: Native languages. ▪ English: Fluent. ▪ Italian, French: Advanced (reading); basic (speaking, writing). ▪ Swedish: Advanced. ▪ Japanese: Basic. 	
DIGITAL SKILLS	L ^A T _E X, Macaulay2, MATLAB, Python, Java, Microsoft Office, LibreOffice, Ubuntu.	
INTERESTS	Linguistics, cross-country skiing, fantasy literature, swimming.	
OTHER INFORMATION	Contestant for Norway at the 2014 International Mathematical Olympiad. Danish citizen.	
REFERENCES	<ul style="list-style-type: none"> ▪ Balázs Szendrői Professor of Mathematics Department of Mathematics, Universität Wien Oskar-Morgenstern-Platz 1, 1090 Wien, Austria balazs.szendroi@univie.ac.at • +43-1-4277-50482 ▪ Alastair Crow Professor of Mathematics Department of Mathematical Sciences, University of Bath, Claverton Down, Bath BA2 7AY, United Kingdom. a.crow@bath.ac.uk • +44 (0) 1225 385327 ▪ Ugo Bruzzo Professor Scuola Internazionale Superiore di Studi Avanzati, Via Bonomea 265 34136 Trieste, Italy bruzzo@sissa.it 	

▪ **John Christian Ottem**

Professor

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