

Søren Gammelgaard

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CURRENT EMPLOYMENT

Scuola Internazionale Superiore di Studi Avanzati, 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.

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](#).

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.
 - 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 ■ Tutor in Topology. Jan 2020 – Mar 2020 Department of Mathematics, University of Oslo , Oslo, Norway ■ Several positions as Teaching Assistant, in Calculus and Linear Algebra. Aug 2015 – Dec 2017 Sommerskolen Oslo (<i>Oslo Summer School</i>), Oslo, Norway ■ Taught mathematics at a summer school for high school students. 2016 – 2018
OTHER ACTIVITIES	Taruithorn, the Oxford Tolkien Society , University of Oxford ■ Secretary Jan 2021 – Feb 2022 • Responsibility for handling correspondence, booking external speakers, administrative work. Balliol College Middle Common Room , University of Oxford ■ Secretary Jun 2019– Jun 2020 • Responsibility for scheduling meetings, taking minutes, setting agendas, and handling external correspondence. Matematisk Ordliste (<i>Mathematical Wordlist</i>), University of Oslo, University of Agder, Norwegian University of Science and Technology, Norwegian Language Council, ■ Lexicography relating to algebraic geometry May 2019 • I documented and suggested about 250 Norwegian translations from English of scientific terms in algebraic geometry and adjacent fields of mathematics.
LANGUAGES	■ Norwegian, Danish: Native languages. ■ English: Fluent. ■ French: Advanced (reading); basic (speaking, writing). ■ Swedish: Advanced. ■ Japanese: Basic
DIGITAL SKILLS	\LaTeX , 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	■ 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 ■ John Christian Ottem Professor Department of Mathematics, University of Oslo, Moltke Moes vei 35 Niels Henrik Abels hus 0851 Oslo, Norway johnco@math.uio.no • +47 22855930

[CV compiled on 2023-09-19]