Søren Gammelgaard

CURRENT EMPLOYMENT

Scuola Internazionale Superiore di Studi Avanzati, Via Bonomea 265, 34136 Trieste, Italy

Post-doctoral researcher (Assegnista di Ricerca)

Nov 2022 -

EDUCATION

University of Oxford, Oxford, United Kingdom

DPhil in Mathematics

Oct 2018 - Sep 2022

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

University of Oslo, Oslo, Norway

MSc in Mathematics

Aug 2016 – Jun 2018

- 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 MathematicsAverage grade: A.

Aug 2014 – Jun 2016

CONFERENCE TALKS

GAeLXXVII (Poster), Bucharest, Jun 2019

UCL/KCL Junior Geometry Seminar London, Jan 2022

Algebraic Geometry Seminar, University of Oslo Oslo, Mar 2022

Algebraic Geometry Seminar, KTH Royal Institute of Technology Stockholm, Apr 2022 **Symplectic singularities in geometry and representation theory**, CIRM, Marseille, Apr 2022

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

Quiver Representations, Quiver Varieties and Combinatorics, Università di Bologna, Jun 2023

PUBLICATIONS

- [1] A. Craw, <u>S. Gammelgaard</u>, 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, accepted for publication in *Journal of Algebra and its Applications*.

"Moduli spaces of framed sheaves on compactified Kleinian singularities", available here, submitted.

"Noncommutative projective partial resolutions and quiver varieties", coauthored with Á. Gyenge, available here.

SCHOLARSHIPS

Aker Scholarship,

2018 - 2022

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

SISSA Mathematical Fellowship,

2022 –

Scholarship for post-doctoral research at SISSA (Scuola Internazionale Superiore di Studi Avanzati)

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 (Oslo Summer School), 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 (*Mathematical Wordlist*), 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.

• Italian, French: Advanced (reading); basic (speaking, writing).

Swedish: Advanced.Japanese: Basic.

DIGITAL SKILLS LATEX, Macaulay2, MATLAB, Python, Java, Microsoft Office, LibreOffice, Ubuntu.

OTHER INTERESTS Linguistics, cross-country skiing, fantasy literature, swimming.

OTHER Contestant for Norway at the 2014 International Mathematical Olympiad.

INFORMATION Danish citizen.

REFERENCES

■ Balázs Szendrői

Professor of Mathematics

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Alastair Craw

Professor of Mathematics

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Ugo Bruzzo

Professor

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John Christian Ottem

Professor

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