

Søren Gammelgaard

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CURRENT EMPLOYMENT	Dipartimento di Matematica e Informatica, Università degli Studi di Ferrara , Ferrara, Italy Post-doctoral researcher (Assegnista di Ricerca)	Dec 2024 –
PREVIOUS EMPLOYMENT	Scuola Internazionale Superiore di Studi Avanzati , Trieste, Italy Post-doctoral researcher (Assegnista di Ricerca)	Nov 2022 – Nov 2024
EDUCATION	University of Oxford , Oxford, United Kingdom <ul style="list-style-type: none">▪ DPhil in Mathematics<ul style="list-style-type: none">• Thesis: <i>Quiver Varieties and Moduli Spaces of Sheaves on Singular Surfaces</i>• Supervisor: Professor Balázs Szendrői• Focus: Quiver varieties, singular surfaces, moduli spaces.▪ MSc in Mathematics<ul style="list-style-type: none">• Thesis: <i>Cubic hypersurfaces, their Fano schemes, and special subvarieties</i>• Supervisor: Professor John Christian Ottem• Focus: Cubic hypersurfaces, Fano schemes, Chow rings.• Grade awarded: A.▪ BSc in Mathematics<ul style="list-style-type: none">• Average grade: A.	Oct 2018 – Sep 2022
	University of Oslo , Oslo, Norway <ul style="list-style-type: none">▪ MSc in Mathematics<ul style="list-style-type: none">• Thesis: <i>Cubic hypersurfaces, their Fano schemes, and special subvarieties</i>• Supervisor: Professor John Christian Ottem• Focus: Cubic hypersurfaces, Fano schemes, Chow rings.• Grade awarded: A.▪ BSc in Mathematics<ul style="list-style-type: none">• Average grade: A.	Aug 2016 – Jun 2018
		Aug 2014 – Jun 2016
EXTERNAL 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 Syzygies and Hilbert Schemes , Jagiellonian University, Krakow (Poster), Sep 2024 Algebra and Geometry seminar, Budapest University of Technology and Economics , Oct 2024 TRINO seminar , Trieste, May 2025 SQUARE conference , Trento, Jun 2025 Algebraic Geometry Seminar , Humboldt-Universität Berlin, Jul 2025 Essen Algebraic Geometry Seminar , Essen Seminar for Algebraic Geometry and Arithmetic, Sep 2025 MALGA seminar , Padua, Oct 2025	
INTERNAL TALKS	Oxford Geometry and Analysis seminar , Oxford, United Kingdom, Apr 2022 SISSA Algebraic Geometry seminar , SISSA Trieste, Italy, Dec 2022, May 2024 Algebraic Geometry Seminar , Dipartimento di Matematica e Informatica, University of Ferrara, Italy, Dec 2024, Jun 2025	
PUBLICATIONS	<ul style="list-style-type: none">[1] A. Craw, <u>S. Gammelgaard</u>, Á. Gyenge, and B. Szendrői, “Punctual Hilbert schemes for Kleinian singularities as quiver varieties,” <i>Algebraic Geometry</i>, vol. 8, issue 6, pp. 680–704, Nov 2021. Available here.[2] A. Craw, <u>S. Gammelgaard</u>, Á. Gyenge, and B. Szendrői, “Quot Schemes for Kleinian Orbifolds,” <i>SIGMA (Symmetry, Integrability and Geometry: Methods and Applications)</i>, vol. 17, no. 099, Nov 2021. Available here.[3] S. Gammelgaard, “Quiver Varieties and Framed Sheaves on Compactified Kleinian Singularities”, <i>Journal of Algebra and its Applications</i>, Aug 2024. Available here. Available as preprint here.	

PREPRINTS	<p>“Moduli spaces of framed sheaves on compactified Kleinian singularities”, 2024, available here, largely superseded by</p> <p>“Noncommutative projective partial resolutions and quiver varieties”, 2024, coauthored with Á. Gyenge, available here, submitted.</p> <p>“Quiver Schemes for Nongeneric Stability and Cornering”, 2025, coauthored with Lukas Bertsch, available here, submitted.</p> <p>“On the unirationality of conic bundles with discriminant of degree eight”, 2025, coauthored with Alex Casarotti and Alex Massarenti, available here.</p>
SCHOLARSHIPS	<ul style="list-style-type: none"> ▪ Aker Scholarship, 2018 – 2022 Scholarship with stipend for advanced graduate studies at a top international university. ▪ SISSA Mathematical Fellowship, 2022 – 2024 Scholarship for post-doctoral research at SISSA (Scuola Internazionale Superiore di Studi Avanzati)
EDUCATIONAL EXPERIENCE	<p>University of Oxford, Oxford, United Kingdom</p> <ul style="list-style-type: none"> ▪ Several positions as Teaching Assistant and Tutor: <ul style="list-style-type: none"> • 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. <p>St Peter’s College, University of Oxford, Oxford, United Kingdom</p> <ul style="list-style-type: none"> ▪ Tutor in Topology. Jan 2020 – Mar 2020 <p>Department of Mathematics, University of Oslo, Oslo, Norway</p> <ul style="list-style-type: none"> ▪ Several positions as Teaching Assistant, in Calculus and Linear Algebra. Aug 2015 – Dec 2017 <p>Sommerskolen Oslo (Oslo Summer School), Oslo, Norway</p> <ul style="list-style-type: none"> ▪ Taught mathematics at a summer school for high school students. 2016 – 2018
OTHER PROFESSIONAL ACTIVITIES	<p>Reading group/Course on algebraic geometry and Hodge theory, Oxford, United Kingdom 2020 – 2021</p> <ul style="list-style-type: none"> ▪ I organised and gave about half of the lectures in a crash course/reading group in algebraic geometry and Hodge theory for new doctoral students. <p>TULSF X conference, Ferrara, Italy Oct 2025</p> <ul style="list-style-type: none"> ▪ This is a one-day algebraic geometry conference that I organised together with Alex Casarotti.
OTHER ACTIVITIES	<p>Taruithorn, the Oxford Tolkien Society, University of Oxford</p> <ul style="list-style-type: none"> ▪ Secretary Jan 2021 – Feb 2022 <ul style="list-style-type: none"> • Responsibility for handling correspondence, booking external speakers, administrative work. <p>Balliol College Middle Common Room, University of Oxford</p> <ul style="list-style-type: none"> ▪ Secretary Jun 2019– Jun 2020 <ul style="list-style-type: none"> • Responsibility for scheduling meetings, taking minutes, setting agendas, and handling external correspondence. <p>Matematisk Ordliste (Mathematical Wordlist), University of Oslo, University of Agder, Norwegian University of Science and Technology, Norwegian Language Council, May 2019</p> <ul style="list-style-type: none"> ▪ Lexicography relating to algebraic geometry <ul style="list-style-type: none"> • I documented and suggested about 250 Norwegian translations from English of scientific terms in algebraic geometry and adjacent fields of mathematics.
LANGUAGES	<ul style="list-style-type: none"> ▪ Norwegian, Danish: Native languages. ▪ English: Fluent. ▪ Italian: Advanced. ▪ French: Advanced (reading); basic (speaking, writing). ▪ Swedish: Advanced. ▪ Japanese: Basic.
DIGITAL SKILLS	LaTeX, GAP, Macaulay2, MATLAB, Python, Java, Microsoft Office, LibreOffice, Ubuntu.

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

OTHER INFORMATION Contestant for Norway at the 2014 International Mathematical Olympiad.
Danish citizen.

REFERENCES

▪ **Balázs Szendrői**

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▪ **Alastair Craw**

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▪ **Alex Massarenti**

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▪ **Ugo Bruzzo**

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▪ **John Christian Ottem**

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