

# Søren Gammelgaard

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CURRENT EMPLOYMENT	<b>Dipartimento di Matematica e Informatica, Università degli Studi di Ferrara, Ferrara, Italy</b> Post-doctoral researcher (Assegnista di Ricerca) Dec 2024 –
PREVIOUS EMPLOYMENT	<b>Scuola Internazionale Superiore di Studi Avanzati, Via Bonomea 265, 34136 Trieste, Italy</b> Post-doctoral researcher (Assegnista di Ricerca) Nov 2022 – Nov 2024
EDUCATION	<b>University of Oxford, Oxford, United Kingdom</b> <ul style="list-style-type: none"><li>▪ DPhil in Mathematics Oct 2018 – Sep 2022<ul style="list-style-type: none"><li>• Thesis: <i>Quiver Varieties and Moduli Spaces of Sheaves on Singular Surfaces</i></li><li>• Supervisor: Professor Balázs Szendrői</li><li>• Focus: Quiver varieties, singular surfaces, moduli spaces.</li></ul></li><li><b>University of Oslo, Oslo, Norway</b><ul style="list-style-type: none"><li>▪ MSc in Mathematics Aug 2016 – Jun 2018<ul style="list-style-type: none"><li>• Thesis: <i>Cubic hypersurfaces, their Fano schemes, and special subvarieties</i></li><li>• Supervisor: Professor John Christian Ottem</li><li>• Focus: Cubic hypersurfaces, Fano schemes, Chow rings.</li><li>• Grade awarded: A.</li></ul></li><li>▪ BSc in Mathematics Aug 2014 – Jun 2016<ul style="list-style-type: none"><li>• Average grade: A.</li></ul></li></ul></li></ul>
EXTERNAL TALKS	<b>GAeLXXVII (Poster), Bucharest, Jun 2019</b> <b>UCL/KCL Junior Geometry Seminar</b> London, Jan 2022 <b>Algebraic Geometry Seminar, University of Oslo</b> Oslo, Mar 2022 <b>Algebraic Geometry Seminar, KTH Royal Institute of Technology</b> Stockholm, Apr 2022 <b>Symplectic singularities in geometry and representation theory</b> , CIRM, Marseille, Apr 2022 <b>A day of geometry in Glasgow, University of Glasgow</b> , Aug 2022 <b>Quiver Representations, Quiver Varieties and Combinatorics, Università di Bologna</b> , Jun 2023 <b>Szygies and Hilbert Schemes, Jagiellonian University, Krakow (Poster)</b> , Sep 2024 <b>Algebra and Geometry seminar, Budapest University of Technology and Economics</b> , Oct 2024
INTERNAL TALKS	<b>Oxford Geometry and Analysis seminar</b> , Oxford, United Kingdom, Apr 2022 <b>SISSA Algebraic Geometry seminar</b> , SISSA Trieste, Italy, Dec 2022, May 2024 <b>Algebraic Geometry Seminar</b> , Dipartimento di Matematica e Informatica, University of Ferrara, Italy, Dec 2024
PUBLICATIONS	[1] A. Craw, S. Gammelgaard, 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 <a href="#">here</a> . [2] A. Craw, S. Gammelgaard, 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 <a href="#">here</a> . [3] S. Gammelgaard, “Quiver Varieties and Framed Sheaves on Compactified Kleinian Singularities,” <i>Journal of Algebra and its Applications</i> , Aug 2024. Available <a href="#">here</a> . Available as preprint <a href="#">here</a> .
PREPRINTS	“Moduli spaces of framed sheaves on compactified Kleinian singularities”, 2024, available <a href="#">here</a> , largely superseded by “Noncommutative projective partial resolutions and quiver varieties”, 2024, coauthored with Á. Gyenge, available <a href="#">here</a> , submitted. An appendix to “Euler characteristics of affine ADE Nakajima quiver varieties via collapsing fibers”, 2024, coauthored with L. Bertsch, Á. Gyenge, and B. Szendrői, available <a href="#">here</a> .

<b>SCHOLARSHIPS</b>	<ul style="list-style-type: none"> <li>▪ Aker Scholarship, 2018 – 2022 Scholarship with stipend for advanced graduate studies at a top international university.</li> <li>▪ SISSA Mathematical Fellowship, 2022 – 2024 Scholarship for post-doctoral research at SISSA (Scuola Internazionale Superiore di Studi Avanzati)</li> </ul>
<b>OTHER WORK EXPERIENCE</b>	<b>University of Oxford</b> , Oxford, United Kingdom <ul style="list-style-type: none"> <li>▪ Several positions as Teaching Assistant and Tutor: <ul style="list-style-type: none"> <li>• Oct 2018 – Dec 2018: TA in Galois Theory.</li> <li>• Oct 2019 – Dec 2019: TA in Galois Theory.</li> <li>• Jan 2020 – Mar 2020: TA in Commutative Algebra.</li> <li>• Jan 2021 – Mar 2021: TA in Algebraic Curves.</li> <li>• Oct 2021 – Dec 2021: TA in Homological Algebra.</li> <li>• Jan 2022 – Mar 2022: Tutor in Algebraic Curves.</li> </ul> </li> </ul>
	<b>St Peter’s College, University of Oxford</b> , Oxford, United Kingdom <ul style="list-style-type: none"> <li>▪ Tutor in Topology. Jan 2020 – Mar 2020</li> </ul>
	<b>Department of Mathematics, University of Oslo</b> , Oslo, Norway <ul style="list-style-type: none"> <li>▪ Several positions as Teaching Assistant, in Calculus and Linear Algebra. Aug 2015 – Dec 2017</li> </ul>
	<b>Sommerskolen Oslo (Oslo Summer School)</b> , Oslo, Norway <ul style="list-style-type: none"> <li>▪ Taught mathematics at a summer school for high school students. 2016 – 2018</li> </ul>
<b>OTHER ACTIVITIES</b>	<b>Taruithorn, the Oxford Tolkien Society</b> , University of Oxford <ul style="list-style-type: none"> <li>▪ Secretary Jan 2021 – Feb 2022 <ul style="list-style-type: none"> <li>• Responsibility for handling correspondence, booking external speakers, administrative work.</li> </ul> </li> </ul>
	<b>Balliol College Middle Common Room</b> , University of Oxford <ul style="list-style-type: none"> <li>▪ Secretary Jun 2019– Jun 2020 <ul style="list-style-type: none"> <li>• Responsibility for scheduling meetings, taking minutes, setting agendas, and handling external correspondence.</li> </ul> </li> </ul>
	<b>Matematisk Ordliste (Mathematical Wordlist)</b> , University of Oslo, University of Agder, Norwegian University of Science and Technology, Norwegian Language Council, <ul style="list-style-type: none"> <li>▪ Lexicography relating to algebraic geometry May 2019 <ul style="list-style-type: none"> <li>• I documented and suggested about 250 Norwegian translations from English of scientific terms in algebraic geometry and adjacent fields of mathematics.</li> </ul> </li> </ul>
<b>LANGUAGES</b>	<ul style="list-style-type: none"> <li>▪ Norwegian, Danish: Native languages.</li> <li>▪ English: Fluent.</li> <li>▪ Italian: Advanced.</li> <li>▪ French: Advanced (reading); basic (speaking, writing).</li> <li>▪ Swedish: Advanced.</li> <li>▪ Japanese: Basic.</li> </ul>
<b>DIGITAL SKILLS</b>	$\text{\LaTeX}$ , GAP, Macaulay2, MATLAB, Python, Java, Microsoft Office, LibreOffice, Ubuntu.
<b>OTHER INTERESTS</b>	Linguistics, cross-country skiing, fantasy literature, swimming.
<b>OTHER INFORMATION</b>	Contestant for Norway at the 2014 International Mathematical Olympiad. Danish citizen.
<b>REFERENCES</b>	<ul style="list-style-type: none"> <li>▪ <b>Balázs Szendrői</b> Professor of Mathematics Department of Mathematics, Universität Wien Oskar-Morgenstern-Platz 1, 1090 Wien, Austria balazs.szendroi@univie.ac.at • +43-1-4277-50482</li> </ul>

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