Victoria Schleis

Academic positions

Since June 2024	**Postdoctoral Research Associate**, *Durham University, UK*, Postdoctoral Mentors: Yue Ren and Jeff Giansiracusa.
2025	**Member**, *Institute for Advanced Study, Princeton, USA*.

Education

2021–2024	**Ph.D. student**, *Universität Tübingen, Germany*, Supervisor: Hannah Markwig. Thesis Topic: Tropical Quiver Grassmannians and Tropical Enumeration on Ruled Surfaces, Defense date: 7 November 2024
2020–2021	**Master of Science in Mathematics**, *Universität Tübingen, Germany*.
2017–2020	**Bachelor of Science in Mathematics, Minor in Computer Science**, *TU Kaiserslautern, Germany, 2018-2019: Exchange student at the University of Warwick, UK*.

Papers

Preprints

[1] Jeffrey Giansiracusa, Felipe Rincón, Victoria Schleis, Martin Ulirsch, *Logarithmic concavity for independent sets of valuated matroids*, arxiv::2407.05808, July 2024

[2] Giulia Iezzi, Victoria Schleis, *Tropical Quiver Grassmannians*, arxiv::2311.18648, November 2023

[3] Thomas Blomme, Victoria Schleis, *Tropical Möbius strips and ruled surfaces*, arxiv::2309.06995, September 2023

[4] Alessio Borzì, Victoria Schleis, *Linear degenerate tropical flag varieties*, arxiv::2308.04193, August 2023

Publications

[5] Hannah Markwig, Lukas Ristau, Victoria Schleis, *Faithful tropicalizations of hyperelliptic curves*, to appear as a bookchapter in the OSCAR-book, arxiv::2310.02947, October 2023

[6] Daniele Agostini, Hannah Markwig, Clemens Nollau, Javier Sendra Arranz, Victoria Schleis, Bernd Sturmfels, *Recovery of plane curves from branch points*, Discrete & Computational Geometry, 07 September 2023

Survey papers

[7] Mara Belotti, Michael Joswig, Chiara Meroni, Victoria Schleis, Johannes Schmitt, *Computations in OSCAR*, SIAM News, September 2023

Teaching experience

Summer 2022	**Toric Ideals (TA)**, Universität Tübingen.
Winter 2021	**Calculus for Computer Science (TA)**, Universität Tübingen.
Summer 2020	**Introduction to Symbolic Computing (TA)**, TU Kaiserslautern.

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Talks

Invited conference talks

- **Tropical Quiver Grassmannians**, Geometry of Matroids, Institute for Advanced Study, Princeton, US, 25 October 2024
- **Linear Maps in Tropical Geometry**, Applied Algebra Meeting, Edinburgh, UK, 11 July 2024
- **Tropical Enumerative Geometry on Ruled Surfaces**, Geometry in its Symplectic, Tropical and Real aspects (GeoStAR), Switzerland, 15 May 2024
- **Quiver Dressians**, SIAM AG23 Eindhoven (Minisymposium), 10 July 2023
- **Linear degenerate tropical flag varieties**, LMS Tropical Day, Birmingham, UK, 17 February, 2023

Upcoming:
- **Tropical Enumerative Geometry on Ruled Surfaces**, LMS Tropical Day, Birmingham, UK, 13 November, 2024
- **Tropical Quiver theory**, Combinatorial Christmas: Geometry without Geometry, Frankfurt, Germany, 7 December 2024

Invited seminar talks

- **Tropical Quiver Representations** Brown University, October 2024
- **Initial degenerations of torus equivariant subvarieties**, Frankfurt, Germany, September 2024
- **Tropical Quiver Representations**, F1 World Seminar (Online), 31 January 2024
- **Quiver Dressians**, TU Berlin, 24 January 2024
- **Tropical Quiver Representations**, Roma Tor Vergata, 1 December 2023
- **Quiver Dressians**, Algebra seminar, Groningen, 20 June 2023
- **Quiver Matroids**, Combinatorics seminar, KTH Stockholm, 19 April 2023
- **Linear degenerate tropical flag varieties**, Oberseminar Algebra and Representation theory, Aachen, 31 January 2023
- **Linear degenerate tropical flag varieties**, Tropical Geometry in Frankfurt, Frankfurt, Germany, 3 February 2023
- **Quiver representations in tropical geometry**, Aachen, Bochum and Cologne seminar on Representation theory, Aachen, 14 July 2022

Upcoming:
- **Logarithmic concavity of independent sets for valuated matroids**, Tropical Geometry Seminar, London, UK, 12 November 2024

Organization

- **International Congress on Mathematical Software (ICMS)**, Local Organizer and Session Chair, Durham, 22-25 July 2024
- **Summer school on tropical linear spaces**, Organizer, Tübingen, 9-13 September 2024
- **Computational Algebraic Geometry Workshop**, Organizer, Durham, 18-22 November 2024