

Sonja Maria Farr

Curriculum Vitae

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Contact Information

Post Department of Mathematics and Statistics
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Research Interests

Application of categorical homotopy theory to algebraic geometry, higher algebra, and study of the combinatorial objects arising in these areas.

Education

- 2022–present **Ph.D in Mathematics**, *University of Nevada, Reno*
Advisor: Christopher Rogers
- 2021–2022 **M.Sc. in Mathematics**, *University of Muenster*
Without degree.
- 2017–2021 **B.Sc. in Mathematics**, *Georg-August University Goettingen*
Thesis Title: Duality of Tensor Categories and Affine Supergroups and its Implications for Quantum Field Theory
Advisor: Victor Pidstrygach
- 20017–2020 **B.Sc. in Physics**, *Georg-August University Goettingen*
Thesis Title: The Haag–Łopuszański-Sohnius Theorem
Advisor: Dorothea Bahns

Grants and Awards

- 2024 **US Junior Oberwolfach Fellow**
- 2023–present **Graduate Research Assistant** supported by Dr. Chris Rogers' NSF grant DMS-2305407
- 2022 **Graduate Dean's Merit Scholarship** University of Nevada, Reno

2017–2022 **Studenstiftung des Deutschen Volkes** scholarship for Bachelor in Physics and Mathematics, Scholarship for Master in Mathematics

Teaching and Service

University of Nevada, Reno

Spring 2024 Co-organizer Gradventure recruiting event

2023–present Co-organizer UNR Homological Algebra Seminar

Spring 2023 Math 182: Calculus II (as TA)

Fall 2022 Math 182: Calculus II (as TA)

University of Münster

Summer 2022 Linear Algebra II (as TA)

University of Goettingen

Winter 2021 Seminar "How to prove it"

Invited Talks

December 2024 **Geometric GRT actions and Deligne's conjecture on Hochschild cochains**, *YoungHom online seminar*

Conferences Attended

September 2024 **An Invitation to Derived Geometry**, *University of Padova*

August 2024 **Oberwolfach Workshop Homotopical Algebra and Higher Structures**, *Mathematisches Forschungsinstitut Oberwolfach (MFO)*
Funded by MFO via the "US Junior Oberwolfach Fellows" program

July 2024 **PCMI Graduate Summer School on Motivic Homotopy Theory**, *Park City Mathematics Institute*
Partially funded by PCMI

May 2024 **Higher Algebra, Geometry, and Topology**, *Centre International de Rencontres Mathématiques (CIRM)*
Partially funded by CIRM

June 2023 **Summer Graduate School Introduction to Derived Algebraic Geometry**, *Simons Laufer Mathematical Sciences Institute*
Funded by SLMath

June 2023 **Arbeitstagung 2023 on Condensed Mathematics**, *Max Planck Institute For Mathematics*
Partially funded by the MPI for mathematics

March 2023 **Homotopy theory in honor of Paul Goerss**, *Northwestern University*
Partially funded by Northwestern University