

# Charles Reid

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## Research Interests

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I study representations of surface groups using techniques from analysis, algebraic geometry, dynamics, and quantum field theory.

## Education

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BA in Mathematics at UC Berkeley

PhD in Mathematics at UT Austin (expected 2024, Advised by Daniel Freed and Jeffery Danciger)

Visiting Graduate Fellow at Harvard University

## Preprints

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**Fock Bundles and Hitchin Components**, October 6, 2023 (with Alexander Thomas and Georgios Kydonakis)

[arXiv:2310.04377](https://arxiv.org/abs/2310.04377) [math.DG]

**Limits of Convex Projective Surfaces and Finsler Metrics**, September 19, 2023

[arXiv:2309.10290](https://arxiv.org/abs/2309.10290) [math.DG]

**Symmetries of 2D TQFTs and Equivariant Verlinde Formulas for General Groups**, November 15, 2021 (with Sergei Gukov, Du Pei, and Ali Shehper)

[arXiv:2111.08032](https://arxiv.org/abs/2111.08032) [hep-th]

## Invited talks

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**Universal Higher Teichmüller Spaces**, October 14 2022, Oberwolfach Arbeitsgemeinschaft on Higher rank Teichmüller Theory

**Limits of Convex Projective Structures and Finsler Metrics**, October 18 2022, Heidelberg Geometry Seminar

**Hyperkähler Geometry of the Moduli Space of Higgs Bundles**, August 29 2023, Metrics on higher Teichmüller spaces workshop in Fréjus

## Seminars Organized

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UT Austin Junior Geometry and String Theory Seminar

Mapping class group learning seminar (Co-Organized with Casandra Monroe)

UT Austin Junior Geometry Seminar

## Languages

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Native English speaker; conversational in Spanish and Mandarin Chinese