

Beth Claire Branman's CV

1 Contact Information

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2 Education

- P.H.D: University of Wisconsin–Madison, 2016-2022.
- Advisor: Autumn Kent
- Undergraduate: University of Michigan – Ann Arbor, 2012-2016.

3 Research

- [1] Benjamin Branman, Igor Kriz, and Ales Pultr. “A sequence of inclusions whose colimit is not a homotopy colimit”. In: *New York Journal of Mathematics* 21 (Jan. 2015), pp. 333–338.
- [2] Beth Branman. “Note on Mapping Class Groups of Finite Spaces”. In: (2020). arXiv: 2011.02409 [math.GN].
- [3] Beth Branman. “Spaces of Pants Decompositions for Surfaces of Infinite Type”. In: (2021). arXiv: 2010.13169 [math.GT].
- [4] Beth Branman and Robbie Lyman. “The complex of cuts in a Stone space”. In: (2024). arXiv: 2408.06994 [math.GT]. URL: <https://arxiv.org/abs/2408.06994>.
- [5] Beth Branman et al. “Critical Points at Infinity on Toric Varieties”. In: (2021). preprint.

4 Teaching

4.1 Teaching at UVA

- Spring 2025: Survey of Algebra Fall 2024: Transition to Higher Mathematics Spring 2024: Basic Real Analysis Fall 2023: General Topology

Spring 2023: Calculus 3 Fall 2022: Calculus 2

4.2 Grad-student teaching positions at UW-Madison

- Spring 2022: Calculus 3 (Head TA) Fall 2021: Calculus 3 (Head TA)
Spring 2021: Calculus 2 (Head TA) Fall 2020: Calculus 2 (Head TA) Fall
2019: Math 221 Spring 2019: Calculus 2 Fall 2018: Calculus 3 Spring
2018: Calculus 3 Fall 2017: Calculus 3 Spring 2017: Calculus 2 Fall 2016:
Calculus 2

5 Conference, Workshop, and Seminar Talks

- JMM Special Session for Women in Groups, Geometry, and Dynamics,
January 11 2025 (planned)
- MAA MD-DC-VA Sectional meeting, Old Dominion November 1 2024
- GeMTRAK, University of Pennsylvania, April 14 2024
- Oregon State University seminar, November 20 2023
- Big Mapping Class Groups at Boston College Workshop, August 1 2022
- AMS-EMS-SMF Special Session in Deformation Spaces of Geometric Structures,
Grenoble, July 21 2022
- AWM Research Symposium: Special Session in Women in Groups, Geometry,
and Dynamics, June 17 2022
- Bristol Junior Geometry Seminar, virtual talk, November 16 2021
- Big Surf seminar, virtual talk, March 11 2021.
- USTARS 2020 conference, University of Iowa – Iowa City, April 3-5 2020
(Poster talk). **Cancelled: COVID-19**
- IG&Tbq conference, University of Michigan –Ann Arbor, June 10-14 2019
(Lightning talk).

6 Service and Outreach

- DEI Panel on Jobs organizer, Spring 2025 (planned)
- COMMIT Teaching Exchange workshop, MAA Sectional meeting, November 1 2024
- COMMIT MD-DC-VA chapter co-chair (2024-present)
- DEI Action Grant from UVA (2024)

- Undergraduate inclusivity panel organizer (2024)
- UVA Research Experience for Undergraduates: Co-organizer/mentor (2024-2025)
- Guest instruction to high schoolers about isometry groups and hyperbolic geometry (2024)
- UVA Association for Women in Math chapter, (2023-present)
- UVA Directed Reading Program: Co-organizer and Mentor (2023-present)
- UVA Geometry Lab (2023)
- Co-organizer of University of Wisconsin's graduate seminar in geometry, topology, and dynamics: 2019-2022.
- Reviewer for *Mathematical Communications* (2021).