

IDENTIFYING INFORMATION:

NAME: Bruce, Juliette

ORCID iD: <https://orcid.org/0000-0001-9766-7896>

POSITION TITLE: Assistant Professor

PRIMARY ORGANIZATION AND LOCATION: Dartmouth College, Mathematics, Hanover, New Hampshire, United States**Professional Preparation:**

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
Brown University, Providence, Rhode Island, United States	Postdoctoral Fellow	08/2022 - 06/2024	Mathematics
University of California, Berkeley, Berkeley, California, United States	Postdoctoral Fellow	08/2020 - 07/2022	Mathematics
Mathematical Sciences Research Institute, Berkeley, California, United States	Postdoctoral Fellow	08/2020 - 05/2021	Mathematics
University of Wisconsin–Madison, Madison, Wisconsin, US	Ph.D	08/2020	Department of Mathematics
University of Wisconsin–Madison, Madison, Wisconsin, US	Masters of Arts	05/2016	Department of Mathematics
University of Michigan–Ann Arbor, Ann Arbor, Michigan, US	Bachelors of Science	04/2014	Department of Mathematics / Department of Political Science

Appointments and Positions

2024 - present Assistant Professor, Dartmouth College, Mathematics, Hanover, New Hampshire, United States

2014 - 2020 Teaching Assistant / Research Assistant, University of Wisconsin - Madison, Department of Mathematics, Madison, WI, US

Products**Products Most Closely Related to the Proposed Project**

1. Madeline Brandt, Juliette Bruce, Melody Chan, Margarida Melo, Gwyneth Moreland, Corey Wolfe. On the top-weight rational cohomology of $\mathcal{A}g$. Geometry & Topology. 2024 March. DOI: 10.48550/ARXIV.2012.02892
2. Juliette Bruce, Lauren Cranton Heller, Mahrud Sayrafi. Bounds on Multigraded Regularity. 2022. Available from: <https://arxiv.org/abs/2208.11115> DOI: 10.48550/ARXIV.2208.11115
3. Juliette Bruce. Asymptotic syzygies for products of projective spaces. Journal of Algebra. 2024 July. DOI: 10.1016/j.jalgebra.2024.03.013
4. Juliette Bruce, Lauren Cranton Heller, Mahrud Sayrafi. Characterizing Multigraded Regularity on Products of Projective Spaces. 2021. Available from: <https://arxiv.org/abs/2110.10705> DOI: 10.48550/ARXIV.2110.10705

5. Juliette Bruce. The quantitative behavior of asymptotic syzygies for Hirzebruch surfaces. *Journal of Commutative Algebra*. 2022 March. DOI: 10.1216/jca.2022.14.19

Other Significant Products, Whether or Not Related to the Proposed Project

1. Madeline Brandt, Juliette Bruce, Daniel Corey. The virtual Euler characteristic for binary matroids. 2023. Available from: <https://arxiv.org/abs/2301.10108> DOI: 10.48550/ARXIV.2301.10108
2. Bruce J, Erman D. A probabilistic approach to systems of parameters and Noether normalization. *Algebra & Number Theory*. 2019 December 7; 13(9):2081-2102. Available from: <https://msp.org/ant/2019/13-9/p05.xhtml> DOI: 10.2140/ant.2019.13.2081
3. The Virtual Resolutions Package for Macaulay2. 2019 May. DOI: 10.2140/jsag.2020.10.51
4. Bruce J, Erman D, Goldstein S, Yang J. Conjectures and Computations about Veronese Syzygies. *Experimental Mathematics*. 2018 June 21; 29(4):398-413. Available from: <https://www.tandfonline.com/doi/full/10.1080/10586458.2018.1474506> DOI: 10.1080/10586458.2018.1474506
5. Bruce J, Corey D, Erman D, Goldstein S, Laudone R, Yang J. Syzygies of $\mathbb{P}^1 \times \mathbb{P}^1$: Data and conjectures. *Journal of Algebra*. 2022 March; 593:589-621. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S0021869321005160> DOI: 10.1016/j.jalgebra.2021.10.023

Certification:

I certify that the information provided is current, accurate, and complete. This includes but is not limited to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. § 6605.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Bruce, Juliette in SciENCv on 2024-10-10 10:29:51