



Juliette Bruce
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Department of Mathematics
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November 15, 2019

To the Hiring Committee,

My name is Juliette Bruce, and I am a graduate student at the University of Wisconsin - Madison, working in algebraic geometry, commutative algebra, and arithmetic geometry under the guidance of my advisor Professor Daniel Erman. I expect to receive my Ph.D. in Mathematics from the University of Wisconsin - Madison in the Spring of 2020. I am writing to apply for the tenure track Assistant Professorship at Smith College. I would also be interested in a temporary one year position.

As an LGBTQ woman, I have worked hard to promote diversity, inclusivity, and justice in the mathematical community. In particular, I have had the opportunity to mentor multiple undergraduate women via the Association for Women in Mathematics's mentor network and the University of Wisconsin's Directed Reading Program. I have also been involved with organizing and volunteering with a number of events hosted by *Spectra*, the association of LGBTQ+ mathematicians. Further, I organized the *Graduate Workshop in Commutative Algebra for Women and Mathematicians of Minority Genders* (2019) to help build the community of women and mathematicians of minority genders in and around commutative algebra.

With this in mind I am extremely drawn to Smith College's mission of providing women a liberal arts education, which prepares them to become global leaders. In particular, I would love to continue my work of promoting diversity, inclusivity, and justice in mathematics at Smith College. In particular, I would be excited to continue leading reading courses and research projects with students at Smith College. Additionally, I would love to continue my work promoting and fighting for LGBTQ+ students.

With my application, I include the standard AMS cover sheet, a curriculum vitae, a research statement, a teaching statement, and a publication list. I will have five letters of recommendation. Four research letters: Christine Berkesch (cberkesch@umn.edu), David Eisenbud (de@msri.org), Daniel Erman (derman@math.wisc.edu), and Kiran Kedlaya (kedlaya@ucsd.edu), and one teaching letter from Shirin Malekpour (shirin.malekpour@wisc.edu).

Sincerely,

Juliette E. Bruce

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