

## Juliette Bruce's Project Summary

**Overview** The PI proposes to study questions in commutative algebra, algebraic geometry, and arithmetic geometry.

### **Intellectual Merit**

**Broader Impacts** As a LGBTQ woman the PI has worked hard to promote diversity, inclusivity, and justice in the mathematical community. She has organized four conferences including, GWCAWMMG, a workshop specifically for women and mathematicians of minority genders in commutative algebra. She is also organizing a panel at the Joint Math Meetings discussing the challenges faced by transgender students.

Going forward the PI plans to continue her work in these directions. In particular, there are plans to organize a follow-up to GWCAWMMG and a conference for LGBTQ+ mathematicians in algebraic geometry and commutative algebra.