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Publications

1. *Redesigning College Algebra: A Vision for the Future*, accepted for publication in Gardner Institute (joint with Bikash Das, Thomas Hartfield, Clayton Kitchings, Marnie Phipps, and Alejandro Sarria)
2. *Low degree cohomology of Frobenius Kernels*, (2019). In: Feldvoss J., Grimley L., Lewis D., Pavelescu A., Pillen C. (eds) *Advances in Algebra. SRAC 2017*. Springer Proceedings in Mathematics & Statistics, vol 277, 255–259. Springer, Cham.
3. *Rational singularities of G -saturation*, *Journal of Commutative Algebra* **10** (2018), 375–391.
4. *Cohomology of SL_2 and related structures*, *Communications in Algebra* **46** (2018), 979–1000 (joint with K. Lux and Y. Zhang)
5. *On nilpotent commuting varieties and cohomology of Frobenius kernels*, *J. Algebra* **425** (2015), 65–84.
6. *On varieties of commuting nilpotent matrices*, *Linear Algebra and its Applications* **452** (2014), 237–262 (joint with K. Šivic).
7. *Commuting varieties of r -tuples over Lie algebras*, *J. Pure Appl. Algebra* **218** (2014), 1400–1417.
8. *Cohomology for Frobenius kernels of SL_2* , *J. Algebra* **396** (2013), 39–60.
9. *First cohomology for finite groups of Lie type: simple modules with small dominant weights*, *Trans. Amer. Math. Soc.* **365** (2013), 1025–1050 (joint with the UGA VIGRE Algebra Group).
10. *Cohomology and Geometry for Frobenius Kernels of Algebraic Groups*, PhD thesis, University of Georgia, 2012.
11. *Second cohomology for finite groups of Lie type*, *J. Algebra* **360** (2012), 21–52 (joint with the UGA VIGRE Algebra Group).
12. *Cohomology for infinitesimal unipotent algebraic and quantum groups*, *Transform. Groups.* **17** (2012), 393–416 (joint with D. Nakano and C. Drupieski).

Recent submission to peer-review journals

1. *Module Varieties of Quotients of Polynomial Algebras*, submitted. This is joint work with Jerry Magana, an undergraduate student of UNG–Gainesville.
2. *Normality and Rational Singularities of G -saturation*, submitted.

In preparation (preprints available upon request)

1. *Geometry of the second Frobenius kernels*, joint with P. Levy.
2. *Commuting varieties and cohomological complexity theory*, joint with P. Levy and K. Šivic.