Publications of William DeMeo (as of December 2018)

Journal Articles

- 1. Polynomial-time tests for difference terms in idempotent varieties, with Freese and Valeriote; to appear in IJAC; preprint link: github.com/UniversalAlgebra/term-conditions
- 2. Universal algebraic methods for constraint satisfaction problems, with C. Bergman; submitted to IJAC; preprint link: arXiv [cs.LO]
- 3. Isotopic algebras with nonisomorphic congruence lattices, Algebra Universalis **72**:295–298, 2014; preprint link: github.com/williamdemeo/Isotopy
- 4. Expansions of finite algebras and their congruence lattices, Algebra Universalis **69**:257–278, 2013; preprint link: github.com/williamdemeo/Overalgebras

Refereed Conference Proceedings

- 5. Proceedings of Algebras and Lattices in Hawaii 2018, co-editor with K. Adaricheva, J. Hyndman.
- 6. Topics in nonabelian harmonic analysis and DSP applications, Proceedings of the International Symposium on Musical Acoustics, Nara, Japan 2004 (best paper award).
- 7. Characterizing musical signals with Wigner-Ville interferences, Proceedings of the International Computer Music Conference, Göteborg, Sweden 2002.
- 8. Approximating eigenvalues of large stochastic matrices, Proceedings of the 8th Copper Mt. Conference on Iterative Methods, Colorado, USA 1998.

Papers in Progress

A new characterization of fiber products of lattices, with P. Mayr and N. Ruskuc. Draft available at github.com/UniversalAlgebra/fg-fin-lat

Representing finite lattices as congruence lattices of finite algebras, with R. Freese and P. Jipsen.

Draft available at github.com/UniversalAlgebra/fin-lat-rep

Books in Progress

Algebras, Categories and Types: with computer-aided proofs, with Hyeyoung Shin.

A Concise Course in Category Theory, with Charlotte Aten and Venanzio Capretta.

Problems in Real and Complex Analysis.

Problems in Groups and Rings.