
Address Department of Mathematics
University of Kansas
553 Snow Hall
Lawrence, KS USA 66045-7523, USA
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EDUCATION

Ph.D. Mathematics 2015-present
University of Kansas
Advisor: Hailong Dao

M.A. Mathematics 2013-2015
Wake Forest University
Advisor: Frank Moore
Thesis: Noncommutative Complete Isolated Singularities

B.S. Mathematics (magna cum laude) 2009-2013
Berry College

PUBLISHED AND ACCEPTED WORKS

- [1] H. Dao, J. Doolittle, K. Duna, B. Goeckner, B. Holmes, J. Lyle, Higher nerves of simplicial complexes, Algebraic Combinatorics (2019), to appear, <https://arxiv.org/abs/1710.06129>.
- [2] H. Dao, M. Eghbali, J. Lyle, Hom and Ext, revisited, Journal of Algebra (2019), in press, <https://doi.org/10.1016/j.jalgebra.2018.12.006>.

SUBMITTED WORKS

- [1] H. Dao, J. Doolittle, J. Lyle, Minimal Cohen-Macaulay simplicial complexes, preprint (2019), <https://arxiv.org/abs/1905.05043>.
- [2] J. Lyle, J. Montaña, Extremal growth of Betti numbers and rigidity of (co)homology, preprint (2019), <https://arxiv.org/abs/1903.12324>.
- [3] T. Kobayashi, J. Lyle, R. Takahashi, On the number of indecomposable Cohen–Macaulay modules which are not locally free on the punctured spectrum, preprint (2019), <https://arxiv.org/abs/1903.03287>.
- [4] B. Holmes, J. Lyle, Rank selection and depth conditions for balanced simplicial complexes, preprint (2018), <https://arxiv.org/abs/1802.03129>.

TEACHING

Teaching Assistant University of Kansas
2016-2019
Taught recitations for Calculus II-III and was instructor of record for Precalculus and Business Calculus

Teaching Assistant Wake Forest
2013-2015
Taught recitations for Calculus I-III, TA for Discrete Math and Linear Algebra

AWARDS

Paul F. Conrad Scholarship <i>2019</i>	University of Kansas
Awarded annually to one or two mathematics graduate students for academic merit	
Chancellor's Fellowship <i>2015-present</i>	University of Kansas
Department Summer Research Scholarship <i>2015-2019</i>	University of Kansas
Outstanding Graduate Student Award <i>2014</i>	Wake Forest
Barton Mathematics Award <i>2013</i>	Berry College

INVITED TALKS

AMS Special Session on Commutative Algebra <i>Charlottesville, VA</i>	March 2020
Purdue Commutative Algebra Seminar <i>West Lafayette, IN</i>	October 2019
“Generalizations of Ulrich Modules and Rigidity Theorems”	
AMS Special Session on Homological and Characteristic $p > 0$ Methods in Commutative Algebra <i>Madison, WI</i>	September 2019
“Generalizations of Ulrich Modules and Rigidity Theorems”	
KUMUNU Jr. <i>University of Nebraska, Lincoln NE</i>	March 2019
“Cohen-Macaulay Rings of Finite CM_+ -Representation Type”	
AMS Special Session on Commutative and Combinatorial Algebra <i>Auburn University, Auburn AL</i>	March 2019
“Cohen-Macaulay Rings of Finite CM_+ -Representation Type”	
AMS Special Session on Commutative Algebra <i>University of Arkansas, Fayetteville AR</i>	November 2018
“ c -Ulrich Modules”	
AMS Special Session on Multiplicities and Volumes: An Interplay Among Algebra, Combinatorics, and Geometry <i>Ann Arbor, MI</i>	October 2018
“ c -Ulrich Modules”	
KUMUNU Jr. <i>University of Nebraska, Lincoln NE</i>	April 2018
“Hom and Ext, Revisited”	