Blake Jackson – Curriculum Vitae

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Employment	**University of Connecticut.** • Assistant Research Professor in Mathematics, August 2023 - Present.
Education	**University of Alabama.** • Ph.D. in Mathematics, August 2023. Advisor: Kyungyong Lee. • Dissertation title: An intersection-dimension formula for preprojective modules of type $\widetilde{D}_n$. **University of Alabama.** • MA in Mathematics, December 2020. **Jacksonville State University.** • BA in Mathematics, minor in Physics, May 2018. • Mentor: Jaedeok Kim.
Research	• Cluster algebras, quiver combinatorics, representation theory, algebraic combinatorics.
Publications	• *Answering two OPAC problems involving Banff quivers*, with Tucker J. Ervin, submitted to Algebraic Combinatorics, 2023. ArXiv: 2305.17194. • *An intersection-dimension formula for preprojective modules of type $\widetilde{D}_n$*, dissertation, 2023. ArXiv: 2305.14249. • *Permutations whose reverse shares the same recording tableau in the RS correspondence*, with Tucker J. Ervin, Jay Lane, Kyungyong Lee, Son Dang Nguyen, Jack O'Donohue, and Michael Vaughan, Sém. Loth. de Comb., vol. 86, 2022. • *Mutations of reflections and existence of pseudo-acyclic orderings for type A_n*, with Tucker J. Ervin, Kyu-Hwan Lee, and Kyungyong Lee, submitted to The Electronic Journal of Combinatorics, 2021. ArXiv: 2108.03309. • *Application of SVD: Information Retrieval and Document Ranking*, with Christopher Mount and Jaedeok Kim, The Pentagon vol. 77 no. 1, 2017.
Presentations	• Algebra Seminar, University of Connecticut, October 2023. • Graduate Student Seminar, University of Alabama, October 2022. • AMS Southeastern Regional Conference Special Session, virtual, November 2021 • Algebra and Topology Seminar, University of Alabama, September 2021. • Graduate Student Seminar, University of Alabama, August 2021. • Kappa Mu Epsilon Regional Convention, Georgia Gwinnett College, April 2018. • American Association of College Teachers of Mathematics, Jacksonville State University, January 2018. • Kappa Mu Epsilon National Convention, Evangel University, April 2017.
Awards	• Outstanding Teaching by a Ph.D. Student, University of Alabama College of Arts & Sciences, to be announced April 2023. • Outstanding Teaching by a Ph.D. Student, University of Alabama Department of Mathematics, to be announced April 2023.

- Summer Research Fellowship, University of Alabama, June 2020.
- National Alumni Association Fellowship University of Alabama Graduate School, 2018-2019 academic year, tuition covered and no teaching duties.
- Best Presentation, Kappa Mu Epsilon Regional Convention, April 2018.
- Top 3 Presentation, Kappa Mu Epsilon National Convention, April 2017.
- People's Choice Presentation, Kappa Mu Epsilon National Convention, April 2017.

Service

- Co-founder and organizer of the University of Alabama Graduate Student Seminar, August 2021 – May 2023.
- Panelist for University of Alabama REU, July 2022.
- Tutor for AMC 10, AIME, and SAT, Fall 2021, Spring 2022.

Teaching

- University of Connecticut, Differential Equations (in-person), Fall 2023.
- University of Alabama, Introduction to Linear Algebra (in-person), Summer 2022.
- University of Alabama, Calculus II (in-person), Spring 2022.
- University of Alabama, Calculus III (in-person, substitute for an instructor on family leave), Fall 2021.
- University of Alabama, Calculus III (in-person), Summer 2021.
- University of Alabama, Applied Differential Equations (hybrid), Spring 2021.
- University of Alabama, Calculus I (virtual), Fall 2020.
- University of Alabama, Calculus & Applications (in-person/virtual), Spring 2020.
- University of Alabama, Pre-Calculus Alg & Trig (in-person), Fall 2019.

Affiliations

- AMS, MAA, AWM, NAM, August 2021 – Present.