Samuel Wilson

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Education

May 2023
Doctorate of Philosophy in Mathematics
Louisiana State University, Baton Rouge, LA
Advisor: Dr. Siu-Hung "Richard" Ng
Dissertation: $SL_2(\mathbb{Z})$-Representations and 2-Semiregular Modular Categories

May 2013
Master of Science in Mathematics
Texas State University, San Marcos, TX
Advisor: Dr. Daniela Ferrero
Thesis: Power Domination on Permutation Graphs

December 2010
Bachelor of Arts in Mathematics (with Honors); Minor in Japanese
University of Oklahoma, Norman, OK
Studied abroad at Karl Franzens Universität; Graz, Austria & University College Cork; Cork, Ireland

Publications and Presentations

Publications
(2023). Symmetric representations of $SL_2(\mathbb{Z})$. *Proceedings of the American Mathematical Society, 151(4),
1415–1431.* (with Dr. Siu-Hung Ng and Dr. Yilong Wang)
(2019). Power Domination on Permutation Graphs. *Discrete Applied Mathematics*, 262, 169–178.

Presentations
(April 2022). Representations of $SL_2(\mathbb{Z})$ and applications for modular tensor categories. *Joint Mathematics
Meeting AMS Special Session on Hopf Algebras and Tensor Categories.*
(March 2021). Symmetrization of representations of $SL_2(\mathbb{Z})$. *LSU Algebra and Number Theory Seminar.*
(March 2021). Representations of $SL_2(\mathbb{Z})$ and Applications to Modular Categories. *AMS Spring Eastern
Sectional Meeting.*

Other Work
(2022). SL2Reps: Constructing symmetric representations of SL(2, Z), Version 1.1. GAP Package.
`https://snw-0.github.io/ sl2-reps`. (with Dr. Siu-Hung Ng and Dr. Yilong Wang)

Awards and Honors

Spring 2019	David Oxley Graduate Student Teaching Award
Fall 2018	Certificate of Teaching Excellence
Spring 2012	Outstanding Graduate Academic Achievement Award

Teaching Experience

August 2017–current
Graduate Assistant, Louisiana State University Mathematics Department, Baton Rouge, LA
Supervisor: Dr. Steven Shipman · shipman@math.lsu.edu · (225) 578-1674

Courses taught:

- College Algebra

- Plane Trigonometry

- The Nature of Mathematics

- Differential and Integral Calculus

Service:

- Served as grader for graduate-level Algebra I. (Fall 2022)

- Mentored three junior Ph.D. candidates in teaching and academics. (Fall 2022)

- Served on the organizing committee for the GEAUX orientation program for incoming graduate students. Gave numerous talks on teaching, academics in general, and graduate-level algebra in specific. Served as the chair, organizing events and activities for roughly 20 incoming students, in Fall 2020. (2019-2021)

- Helped organize the LSU High School Mathematics Contest. (2018-2019)

September 2013–May 2017
Lecturer, Texas State University Mathematics Department, San Marcos, TX
Supervisor: Dr. Susan Morey · (512) 245-2551

Courses taught:

- College Algebra

- Math for Business and Economics I

- Math for Business and Economics II

- Survey of Contemporary Mathematics

- Calculus for Life Sciences I

January 2011–December 2012
Instructional Assistant, Texas State University Mathematics Department, San Marcos, TX
Supervisor: Dr. Susan Morey · (512) 245-2551

Courses taught:

- Elementary Algebra

- Intermediate Algebra

- College Algebra

References

Dr. Siu-Hung "Richard" Ng	**Dr. James Oxley**	**Dr. Pramod Achar**
Professor	Professor	Professor
Louisiana State University	Louisiana State University	Louisiana State University
sng@math.lsu.edu	oxley@math.lsu.edu	pramod@math.lsu.edu
(225) 578-1659	(225) 578-1577	(225) 578-7990