

Sarah Cobb

CONTACT INFORMATION

Midwestern State University
Department of Mathematics
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PROFESSIONAL EXPERIENCE

Department Chair

Midwestern State University, Department of Mathematics
August 2021–present

Associate Professor

Midwestern State University, Department of Mathematics
Fall 2019–present

Assistant Professor

Midwestern State University, Department of Mathematics
Fall 2014–Fall 2019

Graduate Student Instructor

University of Utah, Department of Mathematics
August 2010 – May 2014

EDUCATION

University of Utah, Salt Lake City, UT

Ph.D., Mathematics, May 2014
Advisor: Kevin Wortman

Wheaton College, Wheaton, IL

B.S., Mathematics, June 2009
B.A., English Literature, June 2009

PUBLICATIONS

Cobb, Sarah. “Infinite-dimensional cohomology of $\mathbf{SL}_2(\mathbb{Z}[t, t^{-1}])$.” *Journal of Algebra* Volume 462 (2016). 181-196. <https://doi.org/10.1016/j.jalgebra.2016.05.017>

Gupta, Dittika and Sarah Cobb. “Movement in the Math Classroom.” In *Moving INTO the Classroom*, edited by Stacia C. Miller and Suzanne Lindt, 201-246. New York: Springer, 2018.

Cobb, Sarah C. and Jeff B. Hood. “Mathematical Arguments in Favor of Risk in Andy Weir’s *The Martian*.” *Journal of Humanistic Mathematics*, Volume 8 Issue 1 (January 2018). 94-107. <https://doi.org/10.5642/jhummath.201801.06>

Cobb, Sarah, Michelle Knox, Marcos Lopez, Terry McDonald, Patrick Mitchell. “Distribution of Constant Terms of Irreducible Polynomials in $\mathbb{Z}_p[x]$.” *Notes on Number Theory and Discrete Mathematics*. Volume 25, Issue 4 (December 2019). 72-82.

AWARDS

May 2021: Annual Teaching Award, McCoy College of Science, Mathematics, and Engineering, Midwestern State University

TEACHING	Fall 2014–Fall 2020: Midwestern State University Contemporary Mathematics, Developmental Supplement for Contemporary Mathematics, College Algebra, Trigonometry, Calculus I, Calculus II, Structure of the Number System I, Linear Algebra, Concepts of Calculus, Introduction to Modern Mathematics, Abstract Algebra I
	Fall 2010–Spring 2014: Graduate Student Instructor, University of Utah College Algebra for Business and Social Science, Business Calculus, Trigonometry, Discrete Mathematics
SELECTED PRESENTATIONS	“(MC) ² : Math Club as a Math Circle” with Marcos Lopez, Joint Mathematics Meetings, January 17, 2020.
	“Distribution of Constant Terms of Irreducible Polynomials in $Z_p[x]$,” Marcos Lopez. Joint Mathematics Meetings, January 17, 2020. (Joint work with Michelle Knox, Terry McDonald, and Patrick Mitchell.)
	“Handpicked Polygons,” East Texas Math Teachers’ Circle, Nacogdoches, TX, October 9, 2018.
	“Finiteness Properties by way of Geometry,” R.W. Yeagy Colloquium, Stephen F. Austin State University, Nacogdoches, TX, October 9, 2018.
	“Teaching and Learning Statistics in the Middle Grades,” workshop at Region 9 Educational Service Center, Wichita Falls, TX, June 27, 2017.
PROFESSIONAL SERVICE	August 2021– : Chair, Mathematics Department, Midwestern State University
	August 2021– : Affinity Group Facilitator, COPLAC PLAN initiative (funded by NSF ADVANCE program)
	November 2016– : Chair, Program Assessment Committee for Linear and Abstract Algebra, Midwestern State University
	January 2016– : Faculty Advisor (with Dr. Marcos Lopez), Midwestern State University Math Club
	August 2019– August 2021: Secretary, Midwestern State University Faculty Senate
	August 2021–May 2021: Budget Oversight Committee, Midwestern State University
	March 2020, March 2021: Selection Committee, Midwestern State University Outstanding Student Awards
	February 2018–February 2021: Organizing committee for Texas/Oklahoma Regional Undergraduate Symposium
CONFERENCES AND WORKSHOPS	April 2016– : Texas Section NExT professional development program for early-career faculty, including participation in workshops at Texas Section Meetings of the Mathematical Association of America and the Texas Undergraduate Mathematics Conference
	January 2014, 2015, 2020: Joint Mathematics Meetings
	August 2018, 2019: Mathematical Association of America MathFest
	April 2017, 2018, 2019: Texas Section Meeting, Mathematical Association of America