

# SAM HANSEN

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## EXPERIENCE

*2019-Present*   Mathematics & Statistics Librarian  
                         UNIVERSITY OF MICHIGAN, ANN ARBOR

*2009-Present*   Director & Podcast Producer  
                         ACMESCIENCE.COM

*2019-Present*   Database Developer  
                         UNIVERSITY OF WISCONSIN, MADISON

*2023*             Visiting Scholar  
                         INSTITUTE OF MATHEMATICAL AND STATISTICAL INNOVATION  
                         UNIVERSITY OF CHICAGO

*2017-2019*     Full Stack Developer (PodcastRE)  
                         UNIVERSITY OF WISCONSIN, MADISON

*2018*             Research Guide Intern  
                         SMITHSONIAN NATIONAL MUSEUM OF NATURAL HISTORY LIBRARY

*2013-2014*     Division Operations Analyst  
                         EPIC SYSTEMS

*2008-2011*     Graduate Student Instructor (Mathematics)  
                         UNIVERSITY OF NEVADA, LAS VEGAS

## EDUCATION

*2017-2019*     University of Wisconsin, Madison  
                         Masters of Library and Information Science  
                         Advisor: Dorothea Salo

*2008-2011*     University of Nevada, Las Vegas  
                         Masters of Science: Pure Mathematics  
                         Thesis: *Zero-Sum Magic and Null Sets of Planar Graphs*  
                         Advisor: Prof. Ebrahim Salehi

*2005-2008*     University of Wisconsin, Green Bay  
                         Bachelor of Science: Mathematics (Minor: Humanistic Studies)

## PUBLICATIONS

### ARTICLES

- 2022 Science Librarianship and Social Justice: Part Four Capstone Concepts  
 Issues in Science and Technology Librarianship  
 Authors: Isabel Altamirano, Jeffra D. Bussmann, Sam Hansen, Nastasha E. Johnson, and Gr Keer
- 2021 Science Librarianship and Social Justice: Part Three Advanced Concepts  
 Issues in Science and Technology Librarianship  
 Authors: Isabel Altamirano, Jeffra D. Bussmann, Sam Hansen, Nastasha E. Johnson, and Gr Keer
- 2021 PodcastRE Analytics: Studying the Norms, Styles, and Cultures of an Evolving Medium  
 Digital Humanities Quarterly  
 Authors: Eric Hoyt, JJ Bersch, Susan Noh, Sam Hansen, Jacob Mertens, and Jeremy Morris
- 2020 Science Librarianship and Social Justice: Part Two Intermediate Concepts  
 Issues in Science and Technology Librarianship  
 Authors: Isabel Altamirano, Jeffra D. Bussmann, Sam Hansen, Nastasha E. Johnson, and Gr Keer
- 2020 Science Librarianship and Social Justice: Part One Foundational Concepts  
 Issues in Science and Technology Librarianship  
 Authors: Isabel Altamirano, Jeffra D. Bussmann, Sam Hansen, Nastasha E. Johnson, and Gr Keer
- 2019 The PodcastRE Project: Curating and Preserving Podcasts and their Data  
 Journal of Radio and Audio Media  
 Authors: Jeremy Morris, Sam Hansen, Eric Hoyt
- 2010 Zero-sum magic and null sets of planar graphs  
 Journal of Combinatorial Mathematics and Combinatorial Computing  
 Authors: Ebrahim Salehi, Sam Hansen

### CHAPTERS

- 2021 The Feed is the Thing  
 Saving New Sounds
- 2021 Can a Hammer Categorize Highly Technical Articles?  
 Machine Learning for Cross-Disciplinary Research

## PRESENTATIONS

### INVITED

- Upcoming  
 May 2023* Operationalization, MOU Automation, and Just Where Exactly is the Data: Stories about  
 Overcoming Access Issues for Text and Data Mining Data  
 Colloquium on Text and Data Mining in Libraries

- Upcoming*  
*April 2023*    **The Hidden Narratives of Mathematics**  
Brown Horizons Seminar
- January 2023*    **Panel on the Future of AMS Meetings**  
2023 Joint Mathematics Meetings  
With Shanna Dobson, Abba Gumel, Michelle Manes, and Sara Rezvi
- August 2022*    **Branding and Self-Marketing**  
American Statistical Association Diversity Workshop and Mentoring Program
- July 2022*    **Engagement Strategies for Librarian & Mathematician Collaboration**  
Special Libraries Association Annual Conference 2020 (Panel Co-Convener with Anya Bartelmann)
- Apr 2022*    **Bridging the Divide: Connecting Mathematics and Society through Stories**  
2022 Allegheny Mountain MAA Section Meeting
- Apr 2022*    **A Lab of Geometry and its Embedded Librarian**  
2022 Joint Mathematics Meeting
- Mar 2022*    **Saving New Sounds Roundtable**  
Association for Recorded Sound Webinars  
With Jeremy Morris, Eric Hoyt, Jennifer Wang, and Susan Noh
- Aug 2021*    **Accessing Mathematics: Blind Mathematicians, Deaf Mathematicians, and Libraries**  
Special Libraries Association Annual Conference 2021 (Panel Co-Convener with Emma Moore)
- Aug 2021*    **Academic Authors Showcase: The Feed is the Thing**  
Special Libraries Association Annual Conference 2021
- Feb 2021*    **Science Librarianship and Social Justice Concepts**  
STS Hot Topics Discussion  
With Isabel Altamirano, Jeffra D. Bussmann, Nastasha E. Johnson, and Gr Keer
- Dec 2020*    **Is Science Librarianship Right for Me?**  
ACRL STS Webinar  
With Kimberley Bailey, Patricia Hartman, Matt Torrence, and Mea Warren (Panelist)
- Nov 2020*    **Systematic over-time study of the similarities and differences in research across mathematics and the sciences**  
CADRE Fellows Webinars
- Oct 2020*    **Mathematics Beyond the Academy**  
Special Libraries Association Annual Conference 2020 (Panel Co-Convener with Lauren Gala)
- Sep 2020*    **Comparative analysis of legacy and emerging journals in mathematical biology**  
CADRE Fellows Webinars  
With Marisa Conte and Scott Martin

- Mar 2020* +10 to Charisma: MinMax-ing your way to better stories  
The Collective 2020
- Oct 2019* Audio and the Academic Career  
Sound Education 2019 (Panelist)
- Sep 2019* Mathematical Biology and Systematic Mathematical Research Analysis  
ISSI 2019
- Jun 2019* Data on Demand: Real World Examples of Using Web of Science Data for Analytics  
Special Libraries Association Annual Conference 2020 (Co-presented with Kristen Faeth)
- Jun 2019* Panel on Non-Faculty Mathematical Careers  
LG&TBQ (Panelist)
- Nov 2018* Cycle of Mathematics: Development to Publication to Inspiration  
Sound Education 2018
- July 2018* Storytelling in the Mathematical Domain  
Girls Talk Math  
University of Maryland, College Park
- Nov 2011* Tell More Stories: Why We Need More Storytelling in Mathematics  
Mathematics Department University of Arkansas
- Nov 2010* Mathematical Podcasting  
IMA Early Career Mathematicians Conference  
With Peter Rowlett
- Nov 2010* Bacon, Small-Worlds, and Your Important Friends: Social Network Theory Explained  
University of Leicester Math Society & University of Birmingham Math Society  
With Peter Rowlett
- Nov 2010* Maths and Computing History Tour of Nottingham  
University of Greenwich Math Society  
With Peter Rowlett
- CONTRIBUTED**
- Upcoming  
Mar 2023* Shaping a New Future: Forging Social Justice Work in Multiple Disciplines  
ACRL 2023  
Roundtable Convenor with Isabel Altamirano, Jeffra D. Bussmann, Nastasha E. Johnson, and Gr Keer
- Dec 2022* Don't Call It A Comeback (I've Been Here for Years) - The Timeless Nature of Mathematics Research  
Trans Math Day 2022
- Apr 2022* A Match Made in the Stacks: Mathematician and Librarian Collaborations Special Session

- Joint Mathematics Meetings 2022 Co-Organized with Anya Bartelmann
- Nov 2021* Our Social and Mathematical World: A Tale of Bidirectional Impacts  
University of Michigan, Ann Arbor Math Club
- April 2021* Using CADRE to support Large Scale Bibliometric Studies  
LIS B Conference
- Feb 2021* Can you tell me a story? - Why and How we should tell more stories in mathematics  
University of Michigan, Ann Arbor Math Club
- Feb 2021* Using Empathy Maps to Explore Social Justice Terminology  
Design for Digital 2021  
With Isabel Altamirano, Jeffra D. Bussmann, Nastasha E. Johnson, and Gr Keer
- Oct 2020* Can you tell me a story? - Why and How we should tell more stories in mathematics  
Talking Math With Your Friends
- Mar 2020* Campaigning Your Way to Useable and Clean Data  
The Collective 2020  
With Meredith Hale, Monica Ihli, and Allison Kittinger
- July 2019* What 117 years of aging data tells us about Mathematics Collections Development  
Great Lakes Science Bootcamp 2019
- May 2019* Mathematics  $\neq$  Science: A study in citation rates over time  
Bibliometrics and Research Impact Community Conference 2019
- Nov 2018* The long tail of mathematical citations  
Annual MathsJam Gathering 2018
- Aug 2018* Playing with Mathematical Topic Modeling  
GeoDeepDive Workshop
- June 2018* PodcastRE Not Podcatcher: Archiving Podcasts for Research  
Code4Lib Midwest 2018
- Jan 2018* Word Problems from the Mid-1800s to Now: A Textbook Survey  
Joint Mathematics Meetings 2018
- Jan 2017* Outside the Equation — Exploring Alternative Forms of Mathematical Communication  
Joint Mathematics Meetings 2017 (Panel Convener)
- Jan 2017* What We Talk About When We Talk About Mathematics  
Joint Mathematics Meetings 2017 (Panel Convener)
- Aug 2010* Auditory Mathematics: Podcasting as Mathematical Outreach

Math Fest 2010

- Jan 2010* Mathematics and the Internet: The Impact of New Media on a Discipline  
Joint Mathematics Meetings 2010
- May 2009* Zero-Sum Magic and Null Sets of Planar Graphs  
40th Southeastern International Conference on Combinatorics, Graph Theory and Computing

#### POSTERS

- Upcoming  
Mar 2023* Disciplinary Differences in Citation Aging and its Impact of Librarianship  
ACRL 2023
- Sept 2019* Sleeping Beauties in Mathematical Research  
International Conference on Scientometrics and Informetrics 2019
- June 2019* Measuring Similarity Between Mathematics Research  
& its References Using Bibliographic Coupling  
Special Libraries Association Annual Conference 2019
- June 2018* Relatively Prime — A Podcast Story in 3 Seasons  
ComSciCon 2018

#### DIGITAL PROJECTS

##### ARCHIVES AND DATABASES

- 2019-Current* Media History Digital Library  
Database (PostgreSQL and SOLR) and Backend (Python and Blacklight) Developer
- 2017-Current* PodcastRE  
Database (PostgreSQL and SOLR) and Full Stack (Python and Symfony) Developer

##### PODCAST SERIES AND AUDIO INSTALLATIONS

- 2012-Current* Relatively Prime Stories from the Mathematical Domain  
Host & Producer
- 2021-Current* Library Failure Confessions  
Editor & Producer
- 2022* RadLib Call Numbers Station  
Artist Contributor to NYU Bobst Library "Rule No Five," Installation  
Created and Curated by Amanda Belantara and Ashley Maynor
- 2021* The New Sound of Libraries  
Artist Contributor to The Connection 2021

- 2015-2017    The Other Half  
Executive Producer & Editor
- 2009-2016    Strongly Connected Components  
Host & Producer
- 2012-2015    Science Sparring Society  
Host, Producer, & Writer
- 2010-2013    Math/Maths  
Co-presenter with Peter Rowlett
- 2009-2011    Combinations and Permutations  
Producer & Host

#### VIDEO SERIES

- 2011          Math/Maths History Tour of Nottingham  
Co-Writer and Co-Presenter (with Peter Rowlett), Director, and Editor

#### WEBSITES

- 2022          Mathematics Subfields Citation Network Visualizer  
Co-Creator with Jenna Elwing, Thersea Liu, and Xiaotong Xu
- 2020          LibFails: A Website for Anonymous Library Failures  
Co-Creator with Miranda Marraccini

#### LIVE EVENTS

- Mar 2021     A conversation with Karen Uhlenbeck  
University of Michigan, Ann Arbor Math Club  
Hosted and Co-Produced with Sarah Koch
- Mar 2021     Failure Confessions  
The Connection 2021  
Produced with Bridget Rowan Wipf and Jason Evans Groth
- Oct 2020     24 Hour Maths Magic Show  
Produced with Zoe Griffiths, Matthew Scroggs, Ben Sparks, and Katie Steckles
- Jan 2020     Relatively Prime - Truthiness  
Joint Mathematics Meetings 2020
- Nov 2018     Relatively Prime - All The Math Podcasts  
Annual MathsJam Gathering 2018
- Jan 2017     Relatively Prime - Origins

- Joint Mathematics Meetings 2017
- Nov 2012* Math/Maths Live at MathsJam 2012  
Annual MathsJam Gathering 2012  
With Peter Rowlett
- Nov 2011* Math/Maths Live from Kingswood School  
Kingswood School Bath, England  
With Peter Rowlett
- Nov 2011* Math/Maths Live at MathsJam 2011  
Annual MathsJam Gathering 2011  
With Peter Rowlett
- Nov 2010* Math/Maths Live from Greenwich  
University of Greenwich  
With Peter Rowlett
- Nov 2010* Math/Maths Live from MathsJam 2010  
Annual MathsJam Gather 2010  
With Peter Rowlett

## SERVICE

### UNIVERSITY OF MICHIGAN, ANN ARBOR

- 2021-Current* Member - Text and Data Mining Advisory Group
- 2019-Current* Member - Digital Scholarship Service Team  
Subcommittees: Text and Data Mining, Programming and Curriculum, Tools & Infrastructure
- 2023-Current* Member - Library Data Steering Team
- 2019-Current* Member - Mathematics Department Learning Community for Inclusive Teaching  
Summer 2019 Book Discussion Facilitator: *Inventing the Mathematician*
- 2022* Member - Library Analytics Task-force  
Subcommittees: Data Project Design
- 2019-2022* Co-Chair/Member - Library Diversity Council  
Co-Chair for 2021-2022 term  
Subcommittees: Policing in the Library, Discussion Group, Programming & Curriculum, Elections, Operating Agreement, Inclusive Interpersonal Communication
- 2022* Project Client - University of Michigan School of Information  
Argus Math Journal Gift (Winter 2022 SI 699: Special Projects in Librarianship and Archival Practice)
- 2021-2022* Project Mentor - Lab of Geometry (Michigan)  
Mentor for Temporal Dynamics of the Network of Mathematics Sub-disciplines (Winter 2022)  
Project Website



Winter 2021 Co-Mentor with Tim Ryan for Quantifying Gerrymandering in Michigan (Winter 2021)  
*Winner of 2021 Pamela J. MacKintosh Undergraduate Team Library Research Award*

- 2019-2022 Member - Instructor College Steering Committee
- 2021 Project Client - University of Michigan School of Information  
 Podcast Archive Submissions for PodcastRE.org (Winter 2021 SI 699: Digital Curation)
- 2019-2020 Member - Pamela J. MacKintosh Undergraduate Research Award

#### PROFESSIONAL

- 2023-Current Member - AMS Library Committee  
 American Mathematical Society
- 2021-Current Member - Committee on Permissions  
 International Mathematics Union
- 2023-Current Co-Editor Content Team  
 League of Awesome Librarians
- 2023-Current Executive Leadership Team  
 Forward Libraries
- 2021-Current Co-Chair - Organizing Committee  
 Science Librarians Collaborative
- 2022-2023 Editor - Mathematics bibliography  
 Resources for College Libraries
- 2020-2022 Co-Convener - Mathematics Roundtable  
 Special Libraries Association Physics, Astronomy, and Mathematics Community (SLA PAM)
- 2019-2022 Member - Writing Team  
 League of Awesome Librarians
- 2020-2021 Member - PAM Transition Taskforce  
 SLA PAM
- 2019-2021 Member - Hot Topics Committee  
 Association of College & Research Libraries Science and Technology Section (ACRL STS)
- 2019-2020 Member - Future of PAM Taskforce  
 SLA PAM
- 2019 Reviewer - Mathematics bibliography  
 Resources for College Libraries
- 2018 Member - Writing Team

Hack Library School

## HONORS AND AWARDS

- 2022 **Rising Star Award**  
Special Libraries Association
- 2022 **Public Engagement Faculty Fellowship**  
University of Michigan, Ann Arbor
- 2021 **STEM Advocacy Institute Fellowship**  
Relatively Prime: Next Generation Storytellers in the Mathematical Domain (Cohort 6)
- 2020 **Louise Leckner Travel Stipend**  
Physics-Astronomy-Mathematics Community SLA
- 2019 **CADRE Fellowships**  
Systematic over-time study of the similarities and differences in research across mathematics and the sciences  
Comparative analysis of legacy and emerging journals in mathematical biology  
With Marisa Conte, Scott Martin, and Santiago Schnell
- 2019 **SLA All-Star Poster Session**  
Measuring Similarity Between Mathematics Research & its References Using Bibliographic Coupling
- 2019 **Best Use of DH For Fun - DHAwards**  
PodcastRE
- 2015 **PRX STEM Story Project Grant**  
Three Letters Met on Broom Bridge
- 2013 **Best Science Multimedia on the Web - The Science Studio 2012 collection**  
Chinook - Relatively Prime: Stories from the Mathematical Domain
- 2010 **Edublog Awards Best Education Podcast Shortlist**  
Math/Maths  
With Peter Rowlett
- 2008 **Sheepshead Review Rising Phoenix Award**  
Today on Book of the Day: Your Story on Shuffle