

SAM HANSEN

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WORK EXPERIENCE

2019–Present Mathematics & Statistics Librarian, UNIVERSITY OF MICHIGAN, ANN ARBOR
2009–Present Director & Podcast Producer, ACMESCIENCE.COM
2019–Present Database Developer (Media History Digital Library), UNIVERSITY OF WISCONSIN, MADISON
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

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*
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

- 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

- 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

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

- 2020* **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

- 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* Member - Library Analytics Task-force
Subcommittees: Data Project Design
- 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
- 2021* Member - Text and Data Mining Advisory Group
- 2019-2022* Member - Digital Scholarship Service Team
Subcommittees: Text and Data Mining, Programming and Curriculum, Tools & Infrastructure
- 2019-2022* Member - Instructor College Steering Committee
- 2019-2022* Member - Mathematics Department Learning Community for Inclusive Teaching

Summer 2019 Book Discussion Facilitator: *Inventing the Mathematician*

- 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

- 2021-2022 Member - Committee on Permissions
International Mathematics Union
- 2021-2022 Co-Chair - Conference Organizing Committee
Science Librarians Collaborative
- 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 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