

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

- Upcoming*
 2024 Searching for Similarity: Computational Analysis and the U.S. Film Industry
 Trade Press of the Early 1920s
 Global Movie Magazine Networks
 Authors: Eric Hoyt, Ben Pettis, Lesley Stevenson, and Sam Hansen
- 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

- Sep 2023* Stories as a tool for Mathematical Belonging
Spectra LGBTQ+ Mathematics Conference 2023 - Plenary
- June 2023* Science Librarianship and Social Justice Concepts
2023 ACRL Science & Technology Section Annual Program
With Isabel Altamirano, Jeffra D. Bussmann, Sam Hansen, Nastasha E. Johnson, and Gr Keer
- May 2023* Panel on Unique teaching ventures: Making inroads in new areas
MLA|SLA 2023
With Barbara Wetzel and Sarah Siddiqui
- May 2023* Beyond the impact factor: How do you show success beyond a single number?
Special Libraries Association Annual Conference 2020 (Panel Co-Convener with Lauren Gala)
- 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
- 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
- Jul 2020* STEM Podcasters Round Table
Intelligent Speech
With Chad Davies, Raven Forrest, Ben Jacobs, Raquel Montanez-Gonzalez, and Teagan Phillips
- 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

- Sep 2023* A Word Problem: the hows and whys of mathematical communication
NASW 2023
With Kenna Hughes-Castleberry, Noelle Sawyer, and Sadie Witkoski
- 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

- May 2023* A Field Normalized Exploration of Awoken Papers
MLA|SLA 2023
- 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 ART

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

INSTRUCTION

COURSES TAUGHT

- 2019-Current* Lab of Geometry (Michigan)
 Embedded Librarian
 University of Michigan, Ann Arbor
- 2009-2011* Finite Mathematics
 Instructor
 University of Nevada, Las Vegas
- 2008-2009* Pre-Calculus I
 Instructor
 University of Nevada, Las Vegas

SEMINARS LED

- 2022-Current* Mathematics Communications Seminar
 University of Michigan, Ann Arbor

WORKSHOPS FACILITATED

- 2022-Current* Library Resources for Science Communication
 University of Michigan, Ann Arbor
- 2019-Current* Library Resources for Mathematics
 University of Michigan, Ann Arbor
- 2019-Current* Library Resources for Statistics
 University of Michigan, Ann Arbor
- 2020-Current* Zotero and BibTeX
 University of Michigan, Ann Arbor
- 2020-2023* LaTeX for Engineering Students
 University of Michigan, Ann Arbor
- 2021* Inclusive Interpersonal Skills - Biased Language & Microaggressions
 University of Michigan, Ann Arbor
- 2020-2022* Take Command of Your Dissertation using LaTeX
 University of Michigan, Ann Arbor
- 2020-2022* Barista Basics: Making Better Coffee at Home
 University of Michigan, Ann Arbor & MLA Midwest Region
- 2021-2022* Inclusive Interpersonal Skills - Communications Recovery
 University of Michigan, Ann Arbor & Grand Valley State University

- 2021 SciENCv for Bio-Statisticians
University of Michigan, Ann Arbor
- 2021 Reclaiming and Normalizing Failure
University of Michigan, Ann Arbor
- 2021 Software Carpentries - Python
University of Michigan, Ann Arbor
- 2021 Introduction LaTeX for Bio-Statisticians
University of Michigan, Ann Arbor
- 2020-2021 Open Access and Mathematics
University of Michigan, Ann Arbor
- 2018 Audio Editing and Microphone Technique
University of Wisconsin, Madison
- 2018 Library Resources for ESL 117
University of Wisconsin, Madison

SERVICE

UNIVERSITY OF MICHIGAN, ANN ARBOR

- 2021-Current Member - Text and Data Mining Advisory Group
- 2019-Current Member - Digital Scholarship Advisory Group
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 Community Chair
 Science Librarians Collaborative
- 2023-Current Board Member
 International Mathematics Knowledge Trust
- 2023-Current Member - AMS Library Committee
 American Mathematical Society
- 2023-Current Member - AMS Library Advisory Group
 American Mathematical Society Publications
- 2023-Current Librarian Consultant
 PreTeXt and Runestone Open Source Education Ecosystem
- 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
- 2022-Current Editor - Mathematics bibliography
 Resources for College Libraries
- 2021-2023 Founding Co-Chair
 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

- 2023 2023 LEADING Fellowship
LIS Education And Data Science Integrated Network Group
- 2023 2023 PAM Division Award
Special Libraries Association: Physics Astronomy Mathematics Community
- 2022 James M. Matarazzo 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
Public Radio Exchange

- 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