

SAM HANSEN

email hansensm@umich.edu
website <https://samuelhansen.com>
phone (+1) 702-235-9961

WORK 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
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 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

- 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

- 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

- 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

- 2021-2022* Member - Text and Data Mining Advisory Group
- 2022* Member - Library Analytics Task-force
Subcommittees: Data Project Design
- 2019-2022* Member - Digital Scholarship Service Team
Subcommittees: Text and Data Mining, Programming and Curriculum, Tools & Infrastructure
- 2019-2022* Member - Mathematics Department Learning Community for Inclusive Teaching
Summer 2019 Book Discussion Facilitator: *Inventing the Mathematician*
- 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

2022 Editor - Mathematics bibliography
 Resources for College Libraries
 2021-2022 Member - Committee on Permissions
 International Mathematics Union
 2021-2022 Co-Chair - 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 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