SAM HANSEN

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EXPERIENCE

2024-Present Director of Communication & Engagement

Institute for Mathematical and Statistical Innovation

2009-Present Director & Podcast Producer

ACMESCIENCE.COM

2019-Present Database Developer

University of Wisconsin, Madison

2019-2024 Mathematics & Statistics Librarian

University of Michigan, Ann Arbor

2023 Visiting Scholar

Institute for 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

The PodcastRE Project: Curating and Preserving Podcasts and their Data

Journal of Radio and Audio Media

Authors: Jeremy Morris, Sam Hansen, Eric Hoyt

Zero-sum magic and null sets of planar graphs

Journal of Combinatorial Mathematics and Combinatorial Computing

Authors: Ebrahim Salehi, Sam Hansen

CHAPTERS

Upcoming

2025

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

REPORTS

Final Report of the Committee on Permissions

International Mathematical Union

Authors: Thomas Brennan, Henry Cohn, Sam Hansen, Evelyne Miot, Valeria Simoncini, Stephen Watt

EDITORIALS

2024 Introduction to the Special Issue on Social Justice

Issues in Science and Technology Librarianship

Authors: Ginny Boehme, Jeffra D. Bussmann, Sam Hansen, Nastasha E. Johnson, and Sarah Tribelhorn

PRESENTATIONS

INVITED

Feb 2025 Representation Theory: Making Space for All in the Story of Mathematics

Ohio State University Spectra Chapter Annual Talk

Sep 2024 The Future of Mathematical Libraries & Research Data Infrastructure

Perspectives on Electronic Information Communication in the Mathematical Sciences

Sep 2023 Building Mathematical Belonging and Identity Through Storytelling

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

Jan 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 Stories as a Tool for Belonging in Mathematics

2022 Allegheny Mountain MAA Section Meeting

Apr 2022 A Lab of Geometry and its Embedded Librarian

2022 Joint Mathematics Meeting

With Tim Ryan

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)

Mathematical Biology and Systematic Mathematical Research Analysis Sep 2019 ISSI 2019 Jun 2019 Data on Demand: Real World Examples of Using Web of Science Data for Analytics Special Libraries Association Annual Conference 2019 (Co-presented with Kristen Faeth) Iun 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 Tell More Stories: Why We Need More Storytelling in Mathematics Nov 2011 Mathematics Department University of Arkansas Mathematical Podcasting Nov 2010 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 Maths and Computing History Tour of Nottingham Nov 2010 University of Greenwich Math Society With Peter Rowlett CONTRIBUTED The Hidden Narratives of Mathematics Nov 2024 MathsJam 2024 Sep 2024 Introducing four new Mathematics Communication Training Lesson Plan Matrix x Imaginary 2024 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 Our Social and Mathematical World: A Tale of Bidirectional Impacts Nov 2021 University of Michigan, Ann Arbor Math Club April 2021 Using CADRE to support Large Scale Bibliometric Studies LIS B Conference Can you tell me a story? - Why and How we should tell more stories in mathematics Feb 2021 University of Michigan, Ann Arbor Math Club Using Empathy Maps to Explore Social Justice Terminology Feb 2021 Design for Digital 2021 With Isabel Altamirano, Jeffra D. Bussmann, Nastasha E. Johnson, and Gr Keer Can you tell me a story? - Why and How we should tell more stories in mathematics Oct 2020 Talking Math With Your Friends Campaigning Your Way to Useable and Clean Data Mar 2020 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 Outside the Equation — Exploring Alternative Forms of Mathematical Communication Jan 2017 Joint Mathematics Meetings 2017 (Panel Convener)

What We Talk About When We Talk About Mathematics Jan 2017 Joint Mathematics Meetings 2017 (Panel Convener) Aug 2010 Auditory Mathematics: Podcasting as Mathematical Outreach Math Fest 2010 Ian 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

DIGITAL PROJECTS

June 2018

ARCHIVES AND DATABASES

2024-Current Wendy Clarke: The Love Tapes

ComSciCon 2018

Database (PostgreSQL and Hasura) and Backend (Python) Developer

Relatively Prime — A Podcast Story in 3 Seasons

2019-Current Media History Digital Library

Database (PostgreSQL and SOLR) and Backend (Python and Blacklight) Developer

2017-Curent PodcastRE

Database (PostgreSQL and SOLR) and Full Stack (Python and Symfony) Developer

PODCAST SERIES AND AUDIO ART

2024-Current Carry the Two

Producer & Co-Host

2012-Current Relatively Prime Stories from the Mathematical Domain

Host & Producer

2021-2024 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 MathStatBites

Editor in Chief

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

2024-Current Mathematical Communications

Four part intensive: The Why & Who, The What, The How, and The Where

Institute for Mathematical and Statistical Innovations

2019-2024 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

2022-2023 Mathematics Communications Seminar

University of Michigan, Ann Arbor

WORKSHOPS FACILITATED

Upcoming Elevator Pitches for Research

Davidson College Summer Research Program

Belonging and Identity: The Intersection of Mathematics and Storytelling

Matrix x Imaginary

2024 Mathematics Poster Design

Institute for Mathematical and Statistical Innovation

2022-2024 Library Resources for Science Communication

University of Michigan, Ann Arbor

2019-2024 Library Resources for Mathematics

University of Michigan, Ann Arbor

2019-2024 Library Resources for Statistics

University of Michigan, Ann Arbor

2020-2024 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

PROFESSIONAL

2023-Current Board Member

International Mathematics Knowledge Trust

2023-Current Member - AMS Library Committee

American Mathematical Society

2024 Editor

Special Issue of Issues in Science and Technology Librarianship on Science Librarianship and Social Justice

2023-2024 Community Chair

Science Librarians Collaborative

2023-2024 Member - AMS Library Advisory Group

American Mathematical Society Publications

2023-2024 Librarian Consultant

PreTeXt and Runestone Open Source Education Ecosystem

2021-2024 Member - Committee on Permissions

International Mathematics Union

2023-2024	Co-Editor Content Team League of Awesome Librarians	
2023-2024	Executive Leadership Team Forward Libraries	
2022-2024	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	
UNIVERSITY OF MICHIGAN, ANN ARBOR		
2021-2024	Member - Text and Data Mining Advisory Group	
2019-2024	Member - Digital Scholarship Advisory Group Subcommittees: Text and Data Mining, Programming and Curriculum, Tools & Infrastructure	
2023-2024	Member - Library Data Steering Team	
2019-2024	Member - Mathematics Department Learning Community for Inclusive Teaching Summer 2019 Book Discussion Facilitator: <i>Inventing the Mathematician</i>	
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 Pamela J. MacKintosh Undergraduate Research Award

HONORS, AWARDS, AND FELLOWSHIPS

2023 LEADING Fellowship

LIS Education And Data Science Integrated Network Group

2023 PAM Division Award

Special Libraries Association: Physics Astronomy Mathematics Community

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

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