

# SAMUEL MILLER HANSEN

2133 Center Ave  
Unit 1  
Madison, WI 53704

T 702-235-9961  
E [smhansen3@wisc.edu](mailto:smhansen3@wisc.edu)

<http://samuelhansen.com>

## EDUCATION

M.A. Library and Information Studies — University of Wisconsin, Madison Graduation May 2019

M.S. Mathematics — University of Nevada, Las Vegas May 2011

Thesis: Zero-Sum Magic and Null Sets of Planar Graphs

B.S. Major: Mathematics Minor: Humanistic Studies — University of Wisconsin, Green Bay May 2008

## EXPERIENCE

### DEVELOPER/PRODUCER-PODCASTRE, UNIVERSITY OF WISCONSIN-MADISON — 2017-PRESENT

Created an extensible SQL Data Model for storage of podcasts at a show and episode level. Wrote Python scripts to retrieve and parse podcast RSS feeds. Designed a SOLR driven PHP web front end. Also, developed and am in production of a podcast that will tell the story of the what, why, and how of the archive called The PodcastRE Project.

### SUBJECT GUIDE INTERN, SMITHSONIAN NATIONAL MUSEUM OF NATURAL HISTORY LIBRARIES — 2018

Summer internship in the Smithsonian focused on updating their online subject guide offerings. Analyzed the current items in their existing guide for authority, relevance, purpose, and currency. Created 7 discipline specific subject guides using the existing items and newly identified resources for an audience of students and teachers. Also helped to analyze citations by Smithsonian researchers for a project related to determining journal usage.

### DIRECTOR/PODCAST PRODUCER, ACMSCIENCE.COM — 2009-PRESENT

Responsibilities include research, production, and hosting for multiple shows, as well as website, online community, and social media administration. Also have successfully managed the funding of seasons of the podcast Relatively Prime using both Kickstarter and Patreon.

### LIBRARY INSTRUCTION PRACTICUM, UNIVERSITY OF WISCONSIN-MADISON — 2018

Semester long instruction practicum placement at Steenbock library. Duties included assisting with the teaching of one-shot Communications-A library sessions and leading the instruction of library sessions in ESL 117. Developed three capstone projects: a workshop for librarians on audio recording and editing, a research guide in mathematics for the library website, and a comic style infographic explaining the difference in citation counts across databases.

### GRADUATE ASSISTANT PART-TIME INSTRUCTOR, UNLV 2008-2011

Independently instructed two courses a semester, as well as two courses every summer. Developed and presented lectures, wrote and graded quizzes and exams, and provided outside of class support for struggling students.

## PUBLICATIONS

The PodcastRE Project: Curating and Preserving Podcasts and their Data(with E. Hoyt and J. Morris) — *Journal of Radio and Audio Media* [Submitted]

Zero-sum magic and null sets of planar graphs(with E. Salehi) — *Journal of Combinatorial Mathematics and Combinatorial Computing* (2010) 55-64

## TALKS

### INVITED

**Storytelling in the Mathematical Domain** July 10, 2018 Girls Talk Math University of Maryland

**Tell More Stories: Why We Need More Storytelling in Mathematics** Nov 28, 2011 University of Arkansas

**Mathematical Podcasting**(with Peter Rowlett) Nov 20, 2010 IMA ECM Conference

**Bacon, Small-Worlds, and Your Important Friends: Social Network Theory Explained**(with Peter Rowlett) Nov 19, 2010; University of Leicester MathSoc & Nov 15, 2010; University of Birmingham MathSoc

**Maths and Computing History Tour of Nottingham: George Green, Ada Lovelace, Burroughs Adding Machine and Albert Einstein**(with Peter Rowlett) Nov 17, 2010 University of Greenwich MathSoc

### CONTRIBUTED

**Playing with Mathematical Topic Modeling** August 20, 2018 GeoDeepDive Workshop

**Relatively Prime — A Podcast Story in 3 Seasons**(Poster) June 16, 2018 ComSciCon

**PodcastRE Not Podcatcher: Archiving Podcasts for Research** June 8, 2018 Code4Lib Midwest

**Word Problems from the Mid-1800s to Now: A Textbook Survey** Jan 11, 2018 Joint Mathematics Meetings

**Outside the Equation — Exploring Alternative Forms of Mathematical Communication** Jan 7, 2017 Joint Mathematics Meetings

**What We Talk About When We Talk About Mathematics** Panel Jan 7, 2017 Joint Mathematics Meetings

**Auditory Mathematics: Podcasting as Mathematical Outreach** Aug 6, 2010 MathFest

**Mathematics and the Internet: The Impact of New Media on a Discipline** Jan 14, 2010 Joint Mathematics Meetings

## LIVE PODCASTS

**Relatively Prime** Live Jan 7, 2017 Joint Mathematics Meetings

**Math/Maths Live** Nov 18, 2011 Kingswood School; Nov 12, 2011 MathsJam; Nov 13, 2010 MathsJam; Nov 17, 2010 University of Greenwich

**TECHNICAL SKILLS**

Python, SQL, PHP, SOLR, html, CSS, Symfony, Solarium, LaTeX, Matlab, G Suite, Captivate, Reaper, Adobe Audition, Markdown, Twitter, tumblr, Facebook, Kickstarter, Adobe Premiere, Excel, Keynote, Power Point

**HONORS AND AWARD**

"Three Letters Meet on Broom Bridge" - Grantee 2015 PRX STEM Story Project

"Chinook"-Member of 'Best Science Multimedia on the Web' 2012 collection, The Science Studio

Shortlist Best Educational Podcast for Math/Maths, Edublog Awards 2010

Student Commencement Speaker Graduating Class of 2008, University of Wisconsin, Green Bay

Rising Phoenix Award "Today on Book of the Day: Your Story on Shuffle" Spring 2008, Sheepshead Review