

SAMUEL MILLER HANSEN

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EDUCATION

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

AREAS OF EXPERTISE

AUDIO PRODUCTION

Producer of multiple podcasts ranging from phone/Skype and on-location interviews to panel discussions and live recordings to multi-voice stories and scripted segments. Reaper and Audition have been the primary editing suites, but work has also been done in Hindenburg and Pro Tools.

SCIENCE COMMUNICATION

Speaker: Talks given to every level of audience from researchers to high schoolers in two countries. Taking highly technical material and making it understandable for a non-technical audience is a main skill. Podcaster: Producer of Relatively Prime, an hour long show featuring stories from the mathematical domain. Co-Hosted Math/Maths, a weekly show about math news. Writer: Wrote and edited for the expository mathematics blog Second-Rate Minds and for ACMEScience.com.

MATHEMATICS

Trained pure mathematician, with a special interest in discrete mathematics in general and graph theory in particular. Primary research area has been edge-labelings in graph theory leading to a paper with Ebrahim Salehi, Zero-Sum Magic and Null Sets of Planar Graphs, published in the **Journal of Combinatorial Mathematics and Combinatorial Computing** 72(55-64) and a much expanded Masters Thesis of the same title.

EXPERIENCE

DIRECTOR/PODCAST PRODUCER, ACMESCIENCE.COM — 2009-PRESENT

Created ACMEScience.com to be the home for podcasts varying from interviews with mathematicians to jokey panel discussions on mathematics to historical science fights. Research, produce, and host multiple shows, manage the website, online community, social media, and ran 2 successful Kickstarter campaigns to produce a series of mathematical stories named Relatively Prime. Executive produce and edit The Other Half.

DETROIT TODAY INTERN, WDET — 2015

Provided production assistance for Detroit Today, the daily talk show for Detroit Public Radio station WDET and consulted on their upcoming podcast The Beginning of the End. Tasks included researching segment topics, staging in-studio guests, preparing the daily web posts, and pre-recording interviews.

DIVISION OPERATIONS ANALYST, EPIC — 2013-2014

Develop, and maintain, SQL queries and reports to help analyze internal trends. Provide quality assurance on queries and reports developed by fellow team members. Manage, design, and enhance internal processes. Run internal reports to audit said processes, and follow-up to ensure they are correctly followed.

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. Students varied from typical college age to non-traditional later life learners, as well as remedial students.

TECHNICAL SKILLS

Reaper, Adobe Audition, Hindenburg Journalist Pro, Pro Tools, html, CSS, javascript, Meteor, R, Markdown, Twitter, tumblr, Facebook, Kickstarter, Wordpress, MS Office, iWork, OSX, iOS, Windows, Adobe Premiere, LaTeX

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