

Dr. Kristin Jehring Kuter

Associate Professor
Department of Mathematics
Saint Mary's College
Notre Dame, IN 46556

kjehring@saintmarys.edu
574.284.4458

Education

- **University of California, San Diego** La Jolla, CA
Ph.D., Mathematics 2009
M.A., Mathematics 2006
- **University of Wisconsin, Madison** Madison, WI
B.A., Mathematics 2003
– Graduated with Honors.

Research Experience

- **University of California, San Diego** La Jolla, CA
Ph.D. Research 2006–2009
– Ongoing research on problems in Probability Theory.
Advisor: Prof. P. J. Fitzsimmons.
- **Saint Mary's College** Notre Dame, IN
Status of Girls in Indiana 2011–present
– Ongoing research aimed at collecting and summarizing data on
issues facing Indiana girls ages 10–19.

Teaching Experience

- **Saint Mary's College** Notre Dame, IN
Associate Professor Fall 2015–present
- **Saint Mary's College** Notre Dame, IN
Assistant Professor Fall 2009–Spring 2015
- **University of California, San Diego** La Jolla, CA
Associate Instructor 2008–2009
- **University of California, San Diego** La Jolla, CA
Instructor, Qualifying Exam Review Summer 2007
- **University of California, San Diego** La Jolla, CA
Director, Summer Program for Women Summer 2006 & 2007
- **University of California, San Diego** La Jolla, CA
Teaching Assistant 2003–2008

Administrative Experience

- **Saint Mary's College** Notre Dame, IN
Program Director Summer 2015–present
– Master of Science in Data Science (*PSM affiliate*)

Publications (peer reviewed)

- P.J. Fitzsimmons & K.E. Kuter, “Harmonic Functions on Brownian Motions on Metric Graphs”, *Journal of Mathematical Physics*, 56(1):013504, 2014.
<http://dx.doi.org/10.1063/1.4905731>
- P.J. Fitzsimmons & K.E. Kuter, “Harmonic Functions on Walsh’s Brownian Motion”, *Stochastic Processes and their Applications*, 124:2228–2248, 2014.
<http://dx.doi.org/10.1016/j.spa.2014.02.005>
- *The Status of Girls in Indiana 2013*, Saint Mary’s College, September 2013.
saintmarys.edu/StatusOfGirls

Presentations

- “The Status of Girls in Indiana: Addressing the Issues”, Keynote Address. Fall 2014 meeting of AAUW, South Bend, IN. *September 2014*.
- “The Status of Girls in Indiana,” Panel Presentation. 2014 Summit on Out-of-School Learning, Indiana Afterschool Network, Indianapolis, IN, *March 2014*.
- “Status of Girls in Indiana Report,” Panel Presentation. Sponsored by CWIL. Saint Mary’s College, *October 2013*.
- “An Application of Principal Component Analysis to Educational Data in Indiana,” Poster Presentation. “Tea With SISTARS”, Saint Mary’s College, *February 2013*.
- “On the Optimal Stopping Problem for One-Dimensional Brownian Motion.” 39th Annual Mathematics Conference, Miami University, Oxford, OH, *October 2011*.
- “Walsh’s Brownian Motion on a Graph.” Joint Statistical Meetings, Miami Beach, FL, *August 2011*.
- “Harmonic Functions on Walsh’s Brownian Motion.” AMS Spring Central Sectional Meeting, Iowa City, IA, *March 2011*.
- “Walsh’s Brownian Motion, Harmonic Functions, and Embedded Markov Chains.” New Researchers in Statistics and Probability Conference, Vancouver, Canada, *July 2010*.
- “A Brief Introduction to Mathematical Finance.” Food For Thought Graduate Seminar, UCSD, La Jolla, CA, *May 2007*.
- “Stochastic Models of Biochemical Networks with Delay.” Graduate Student Conference in Probability, UW-Madison, Madison, WI, *April 2007*.
- “On Genetic Networks and Queueing Theory.” Stochastic Systems Seminar, UCSD, La Jolla, CA, *May 2006*.

Interviews

- “Indiana Newsdesk”, WTIU Public Television (PBS, Bloomington), *November 2013*.
<http://indianapublicmedia.org/news/high-school-girls-score-boys-math-science-58199/>
- “Experience Michiana”, WNIT Public Television (PBS, Michiana), *September 2013*.
<http://www.wnit.org/expmichiana/e/september-26th-2013.html#segment=4>
- “Regionally Speaking”, Lakeshore Public Radio (NPR, Northwest Indiana), *September 2013*.
<http://lakeshorepublicmedia.org/indiana-girls-facing-challenges/>

Grants

- Marjorie Neuhoff Summer Science Research Communities Grant, Saint Mary’s College. 2018
- CIC Consortium on Digital Resources for Teaching and Learning. 2015–2018
- “Master of Science in Data Science.” Lilly Foundation Round III Grant: 2013-0390-000. 2014–2019
- “Round III Planning Grant: A Call to Action.” Lilly Foundation. 2013
- Women’s Voices Course Development Grant, Saint Mary’s College. 2013
- Maryjeanne R. Burke and Daughters Pre-tenure Faculty Sistar Grant, Saint Mary’s College. 2012
- Small Grant for Women and Mathematics Projects, Tensor Foundation, MAA. 2009

Awards

- Lilly New Faculty Scholar 2009–2010
- UCSD Summer Graduate Teaching Fellow 2008
- GAANN Fellowship 2004–2005

Service

- Representative for IN, “PSM4RST8” Campaign, NPSMA, *2018–present*.
- Director, Data Science Hackathon, Saint Mary’s College, *2018–present*.
- Math Placement for Incoming Students, Saint Mary’s College, *2012–2017*.
- First Year Faculty Advisor, Saint Mary’s College, *2011–2013 & 2014–2016*.
- Committees at Saint Mary’s College:
 - Nominating Committee (*2011–2012*)
 - Library Committee (*2011–2014*)
 - Athletics Advisory Board Committee (*2011–2013*)

- Executive Committee of the Faculty Assembly: Secretary (2012–2013)
 - Committee on Academic Standards (2013–2016)
 - Center for Academic Innovation Grants Committee (2013–2016)
 - Graduate Program Committee (2015–present)
 - Rank and Tenure Committee (2017–present)
 - Academic Affairs Council (2018–present)
- Mathematics Department representative at *Meet Me on the Avenue*, Saint Mary’s College, 2011–2018.
 - Judge, Young Mathematicians Conference, Ohio State University, *August 2010*.
 - Judge, 5th & 7th Grade Science Fair, St. Pius X Catholic School, Granger, IN, *January 2010*.
 - Director, Hypatia Day, Math Department, Saint Mary’s College, 2009–2017.
 - Management of Statistics and Actuarial Mathematics major, Saint Mary’s College, 2009–present.
 - President, Association for Women in Mathematics, UCSD Student Chapter, 2008–2009.
 - Author, 2009 Tensor-MAA Small Grant for Women and Mathematics Projects, 2008.
 - Vice-President, Association for Women in Mathematics, UCSD Student Chapter, 2007–2008.
 - Panel representative for undergraduate math majors: “Everything You Ever Wanted to Know About Graduate School”, *Fall 2008*.
 - Panel representative for junior graduate students: “How to Find a Thesis Advisor”, *Spring 2007, Fall 2008*.

Seminars, Courses, and Workshops Attended

- Pre-Conference Workshop: “Marketing your PSM Program”, at *2017 NPSMA National Conference*, Phoenix, AZ, *November 2017*.
- Pre-Conference Workshop: “The Power of PLUS: Getting the Most out of Your Professional Development Courses”, at *2016 NPSMA National Conference*, Arlington, VA, *November 2017*.
- Online Course: “Mining Massive Datasets”, offered through Coursera, *September – November 2014*.
- Faculty Development Seminar: “Integrating Information Literacy Throughout the Curriculum”, Saint Mary’s College, *May 2014*.
- ASA Short Course: “Enhancing Big Data Projects Through Statistical Engineering”, at *2014 ASA Conference on Statistical Practice*, Tampa, FL, *February 2014*.
- Online Course: “Teaching Online”, taught by Kathy Saville, Saint Mary’s College, *September 2013*.

- Faculty Development Seminar: LO3 Course Development, Saint Mary's College, *May 2013*.
- Online Course: "Introduction to Data Science", offered through Coursera, *May – June 2013*.
- Continuing Education Course: "Classification and Regression Trees", at *2011 Joint Statistical Meetings*, Miami Beach, FL, *August 2011*.
- Organizer, Faculty Reading Seminar for Mathematics Faculty, at Saint Mary's College, *2010–2012*.
- Collegium, Portland, OR, *June 2010*.
- AMS Short Course: "Markov Chains and Mixing Times", at *2010 Joint Mathematics Meetings*, San Francisco, CA, *January 2010*.

Conferences Attended

- 2017 National Conference, NPSMA, Phoenix, AZ, *November 2017*
- 2016 National Conference, NPSMA, Arlington, VA, *November 2016*
- 2016 National Workshop, CIC Consortium on Digital Resources for Teaching and Learning, Washington D.C., *September 2016*
- 2015 National Workshop, CIC Consortium on Digital Resources for Teaching and Learning, Washington D.C., *September 2015*
- 2014 Summit on Out-of-School Learning, Indiana Afterschool Network, Indianapolis, IN, *March 2014*.
- 2014 ASA Conference on Statistical Practice, Tampa, FL, *February 2014*.
- Joint Mathematics Meetings, San Diego, CA, *January 2013*.
- IN MAA Spring Section Meeting, Ball State University, Muncie, IN, *March 2012*.
- 39th Annual Mathematics Conference, Miami University, Oxford, OH, *October 2011*.
- Joint Statistical Meetings, Miami Beach, FL, *August 2011*.
- IN MAA Spring Section Meeting, Indiana Wesleyan University, Marion, IN, *April 2011*.
- AMS Spring Central Sectional Meeting, Iowa City, IA, *March 2011*.
- New Researchers in Statistics and Probability Conference, Vancouver, Canada, *July 2010*.
- Joint Mathematics Meetings, San Francisco, CA, *January 2010*.
- Joint Mathematics Meetings, Washington, D.C., *January 2009*.
- Graduate Student Conference in Probability, UW-Madison, Madison, WI, *April 2007*.

Memberships

- American Statistical Association (ASA): *2012–present*
- American Mathematical Society (AMS): *2009–present*
- Association for Women in Mathematics (AWM): *2007–2010*
- Institute of Mathematical Statistics (IMS): *2008–present*
- Mathematical Association of America (MAA): *2009–present*
- National Professional Science Master’s Association (NPSMA): *2015–present*
- Pi Mu Epsilon, National Honors Society in Mathematics: *2009–present*

Software/Programming Experience

- Adobe Acrobat Pro, Camtasia, Microsoft Office Suite, Minitab, \LaTeX , Python, R/RStudio, SPSS, StatCrunch