

**Khyam Paneru, Ph.D.**  
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### **EDUCATION:**

*Ph.D. in Statistics:* Bowling Green State University, Bowling Green, OH – 2013.

*MS in Mathematics (Actuarial Science):* Illinois State University, Normal, IL – 2009.

*MS in Statistics:* Tribhuvan University, Kathmandu, Nepal – 2002.

*BS in Mathematics/Statistics:* Tribhuvan University, Kathmandu, Nepal – 1999.

### **TEACHING & PROFESSIONAL EXPERIENCE:**

- *Associate Professor (August 16, 2020 – )* Department of Mathematics, University of Tampa, FL.
- *Associate Professor (July 2019 – August 2020)* Department of Mathematics, UW -Whitewater, WI.
- *Assistant Professor (August 2013 – June, 2019):* Department of Mathematics, UW-Whitewater, WI.
- *Graduate Assistant (August 2009 – July 2013):* Department of Mathematics and Statistics, Bowling Green State University, OH.
- *Research Assistant (January 2009 – May 2009):* Mennonite College of Nursing, Illinois State University, IL.
- *Graduate Assistant (January 2007 – December 2008):* Department of Mathematics, Illinois State University, IL.
- *Lecturer (Feb 2003 – Aug 2006):* Central Department of Statistics, Tribhuvan University, Nepal.

### **PROFESSIONAL EXAMINATIONS :**

- Society of Actuaries (SOA)/ Casualty Actuarial Society (CAS) Exam P/1.
- Society of Actuaries (SOA)/ Casualty Actuarial Society (CAS) Exam FM/2
- SAS Certified Base Programmer for SAS 9.

### **HONORS & AWARDS:**

- *“Judyta & Bronislaw Blass Memorial Fellowship Award”* for the graduate academic excellence, Department of Mathematics and Statistics, Bowling Green State University, 2012.
- *“Graduate Teaching Award”* for the excellence in graduate teaching, Department of Mathematics and Statistics, Bowling green State University, 2010.
- *“Mahendra Viddyabhushan Medal Class B”* for the achievement of the first rank in MS degree in Statistics for the year 2001, Tribhuvan University, Nepal; awarded by His Majesty the King of Nepal.
- *“Padamraj Gold Medal* for the achievement of the first rank in MS programs in the Institute of Science and Technology for the year 2001, Tribhuvan University, Nepal.

## RESEARCH AND SCHOLARLY ACTIVITY:

- Nepal, K.M., **Paneru, K.**, & Basyal, D. (2020): Minor Treatment but Sizeable Impact: A Study on Calculus Students' Usage of Web-based Homework, *College Student Journal*, 54(1), 43-56.
- Samaranayake, G., Premadasa, P., Amarasinghe R., & **Paneru, K.** (2018): Teacher change through Lesson Study collaboration, *International Journal for Lesson and Learning Studies*, 7(4), 263-276.
- **Paneru, K.**, Padgett, R. N., & Chen, H. (2018): Estimation of Zero-Inflated Population Mean: A Bootstrapping Approach, *Journal of Modern Applied Statistical Methods*, 17 (1).
- Mishra, S., Degtereva, E., & **Paneru, K.** (2017): Role of Foreign Direct Investment by Multinational Companies in Economic Growth of Nepal, *Journal of Economics and Development Studies*, 5(1), 91-101.
- **Paneru, K.** & Chen H. (2014): Regression Analysis under Complex Probability Sampling Designs in Presence of Many Zero-Value Responses, *Advances and Applications in Statistics*, 40 (1), 1- 29.
- **Paneru, K.** & Chen H. (2014): Asymptotic Distribution of Pseudo-Likelihood Ratio Statistic for Zero-Inflated Generalized Linear Models under Complex Sampling Designs, *Far East Journal of Theoretical Statistics*, 49 (1), 41- 60.
- Sthapit, A. B., Bajracharya, P. M., Gautam, K., **Paneru, K.**, & Shrestha, H. K. (2006): *Fundamentals of Business Mathematics*, Buddha Academic Publishers and Distributors Pvt. Ltd, Kathmandu, Nepal.
- Dangol, P. M., Dhakal, B., Tamang, G., Shrestha, H. K., & **Paneru, K.** (2006): *Business Statistics*, Buddha Academic Publishers and Distributors Pvt. Ltd, Kathmandu, Nepal.

## RESEARCH PRESENTATIONS:

- *Are They Doing the Homework or Only Finding the Answers?* Joint Mathematics Meetings, Baltimore, MD, 2019 (Joint Presentation: Kedal M. Nepal and Khyam Paneru)
- *Does collaboration help create change in college teachers?*, Joint Mathematics Meetings, San Diego, CA, 2018 (Joint Presentation: Kirthi Premadasa, Geetha Samaranayake, Rajee Amarasinghe, and Khyam Paneru).
- *Teacher Change through Lesson Study Collaboration*, Department of Mathematics Colloquium at UWW, April, 2018 (Joint Presentation: Geetha Samaranayake and Khyam Paneru).
- *Development and Analysis of a Signature Assignment in a College Algebra Course*, Annual Meeting of the MAA/Wisconsin Section, UW-Milwaukee, WI, 2017 (Joint Presentation: Dr. Fe Evangelista, Dr. Angela Harlan, Dr. Khyam Paneru, and Dr. Geethamali Samaranayake).
- *Pseudo-Likelihood Estimates and Bootstrap Confidence Intervals for the Mean of Zero-Inflated Population*, Joint Mathematics Meetings, Atlanta, GA, 2017.
- *Empirical Non-coverage Rate in Interval Estimation of Expected Response in ZIM Regression*, Joint Mathematics Meetings, Seattle, WA, 2016.
- *Estimation of expected responses at "future" covariate values/vectors in zero-inflated generalized linear model under unequal probability sampling designs*, Joint Mathematics Meetings, San Antonio, TX, 2015.
- *Zero-Inflated Population: Examples and Modeling with Generalized Linear Models under Unequal Probability Sampling Techniques*, Annual Meeting of the MAA/Wisconsin Section, University of Wisconsin-Whitewater, WI, 2014.
- *Zero-Inflated Mixture Regression under Complex Sampling Designs in Presence of Many Zero-Value Responses*, , Statistics Seminar at the Division of Biostatistics, Medical College of Wisconsin, WI, April 15, 2014. (*Invited Speaker*)

- *Cost Effectiveness Analysis of Health-Care Intervention*, Statistics Seminar, Department of Mathematics and Statistics, Bowling Green State University, November 10, 2010.
- *On a Simple Procedure of Unequal Probability Sampling Without Replacement*, Statistics Seminar, Department of Mathematics and Statistics, Bowling Green State University, March 31, 2010.

### **GRANTS:**

- Interdisciplinary Summer Workshop for STEM Students, 2019-2020 Faculty Initiative for Research/Scholarly/Creative Excellence (FIRE) Grant, UW-Whitewater (PI: Aditi Ghosh and Khyam Paneru) (\$10,000).
- University of Wisconsin (UW) System Math Initiative Grant (\$2.3 Million, it is multi-institutional collaboration of UW faculty, staff, and administrators. I am involved in this ongoing project as a statistics faculty to develop a gateway statistics course at UW-Whitewater).
- Summer assessment project, Funded by College of Letter & Sciences, UW –Whitewater (\$500).
- *Summer Research Grant*, Funded by the Department of Mathematics’ Strategic Priority Fund, UW -Whitewater, summer 2019 (\$6,000).
- UW-Whitewater *Research Apprenticeship Program (RAP)*, undergraduate research grant 2018-19 (\$1000).
- *A Statistical Analysis of the Use of Multiple Measures for Mathematics Placement of Incoming Freshmen at University of Wisconsin -Whitewater*, PI: Dr. Fe Evangelista and Dr. Khyam Paneru, Funded by University of Wisconsin-System, 2017-18 (\$20,000).
- *Summer Research Grant*, Funded by the College of Letter & Sciences, UW-Whitewater, Summer 2017 (\$5000).
- Summer Undergraduate Research Fellowship (SURF) Grant: *Sankey Diagram Software Project*. It is a funded project by URP and Provost Office, UW-Whitewater (Team Members: Dr. Meg Waraczynski, Dr. Zach Oster, Dr. Khyam Paneru, Benjamin Stockton, and Brandon Allen, 2016-17 (\$8,500).
- 50% teaching Reassignment in spring 2017, Funded by College of Letter & Sciences, UW -Whitewater (6 credits course load reduction for a semester to conduct research).
- UW-Whitewater *Research Apprenticeship Program (RAP)*, undergraduate research grant 2014-15 (\$1,000).
- *Purchasing Fathom, statistical software*, Funded by the College of Letters and Sciences, UW-Whitewater, 2013-14 (\$1,500).

### **UNDERGRADUATE RESEARCH** (Selected Presentations at National Conferences)

- Benjamin Stockton and Brandon Allen (2018): *UW-Whitewater People Tracker Using Sankey Diagram*; NCUR, National Conference on Undergraduate Research, University of Central Oklahoma, 2018 (Mentors: Dr. Meg Waraczynski, Dr. Khyam Paneru, and Dr. Zach Oster).
- Collin Kannenberg and Benjamin Stockton (2018): *Intentional Walk Rule Change Aftermat*; NCUR, National Conference on Undergraduate Research, University of Central Oklahoma, 2018 (poster presentation) (Mentor: Dr. Khyam Paneru)
- Collin Kannenberg (2017): *Max Scherzer vs. Kyle Hendricks 2016 Cy Young Race Analysis, a Simulation Study*; Great Lakes Analytics in Sports Conference 2017, University of Wisconsin – Steven Points, WI (Mentor: Dr. Khyam Paneru).

- Noah Padgett\* (2015): *Estimation of expected responses at “future” covariate values/vectors in zero-inflated generalized linear model under unequal probability sampling designs*, 2015 Joint Mathematics Meetings, San Antonio, TX (Mentor: Dr. Khyam Paneru).

### **CONFERENCE (Attended)**

- 2018 Joint Mathematics Meetings, San Diego, CA, January 10-13, 2018.
- *Annual Meeting of the MAA/Wisconsin Section*, University of Wisconsin -Milwaukee, WI, 2017
- 2017 Joint Mathematics Meetings, Atlanta, GA.
- *The 51st Actuarial Research Conference, University of Minnesota (UMN) / University of St. Thomas (UST)*, 2016.
- *Wisconsin IHE Conference*, Brookhill Institute of Mathematics, Waukesha WI, April 25, 2016
- *2016 Joint Mathematics Meetings*, Seattle, WA.
- *2015 Joint Mathematics Meetings*, San Antonio, TX.
- *SOA Actuarial Teaching Conference*, Indianapolis, IN.
- *The 2015 Annual Meeting: Big Data and Statistics*, Wisconsin Chapter of American Statistical Association, June 5, 2015.
- *International Conference on Survival Analysis in Memory of J.P. Klein*, Medical College of Wisconsin, WI, June 26-27, 2014.
- *Annual Meeting of the MAA/Wisconsin Section*, UW -Whitewater, WI, April 4-5, 2014
- *2013 Joint Mathematics Meetings*, San Diego, CA,
- *Big Data Symposium*, Bowling Green State University, OH, September 7, 2010.

### **WORKSHOPS (Participated):**

- *Academic Advising Workshop*, College of L&S Advising Institute, UW -Whitewater, August 16-17, 2017.
- *Pre-calculus Workshop*, 2017 Joint Mathematics Meetings, Atlanta, GA.
- *College Readiness and Retention Workshop*, 2017 Joint Mathematics Meetings, Atlanta, GA.
- *UW-Whitewater Summer Assessment Institute 2016*
- *Academic Advising Workshop*, College of L&S Advising Institute, University of Wisconsin -Whitewater, August 17-18, 2015.
- *Teaching Statistics using R and RStudio*, MAA Mini Course at 2015 Joint Mathematics Meetings, San Antonio, TX.
- *Academic Advising Workshop*, College of L&S Advising Institute, UW-Whitewater, August 18-19, 2014.
- *CCASA Spring Workshop Monte Carlo and Bayesian Computation with R*, Chicago Chapter of the American Statistical Association, May 9, 2014.
- *Project NExT Wisconsin*, 82-nd Annual Meeting of the MAA/Wisconsin Section, UW -Whitewater, WI, April 4-5, 2014.
- *Teaching Statistics Using Active Learning and Technology*, MAA PREP Workshop, Kenyon College, OH, July 18-22, 2011.

**MEMBERSHIP OF HONORARY AND PROFESSIONAL SOCIETIES:**

- American Statistical Association
- American Mathematical Society
- Association of Nepalese Mathematicians in America: Life Member

**COMPUTING SKILLS**

R, RStudio, SAS, SPSS, Minitab, Fathom, and MS-Excel.