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Ram C. Kafle, Ph.D.

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Department of Mathematics and Statistics

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Education

Ph.D. in Statistics, August 2014

University of South Florida, Tampa, FL

Masters of Science, Statistics, May 2009

University of Akron, Akron, OH

Masters of Science, Mathematics, Jan 2001

Tribhuvan University, Kathmandu, Nepal

Research Interests

Bayesian Statistical Analysis, Change-Point/Joinpoint Regression, Epidemiology, Biostatistics, Risk Assessment Models (QMRA).

Professional Experience

09/01/2014 – current Assistant Professor of Statistics, Sam Houston State University, TX

09/13/2013 – 05/03/2014 Instructor, University of South Florida, FL

12/22/2010 – 09/12/2013 Graduate Teaching Assistant, University of South Florida, FL

09/01/2010 – 12/01/2010 Data Analyst (Healthcare) Intern, Vastika Inc., Irving, TX

08/01/2008 – 06/30/2010 Graduate Teaching Assistant, Indiana University Purdue University at Indianapolis(IUPUI), IN

01/16/2007 – 05/11/2008 Graduate Teaching Assistant, The University of Akron, OH

08/21/2006 – 01/08/2007 Graduate Teaching Assistant, Marshall University, WV

02/15/2001 – 04/23/2006 Lecturer, Tribhuvan University, Nepal

02/01/1997 – 01/31/2001 Teacher, Kanya Higher Secondary School, Nepal

Publications

Published:

- Hannah Johnson, **Ram C. Kafle**, Madhusudan Choudhary“ *Cellular Localization of Gold and Mechanisms of Gold Resistance in Rhodobacter sphaeroides*, Advances in Microbiology, Vol 7, 2017.
- Minh H. Pham, **Ram C. Kafle** “ *Competing Risks Analysis of African American Breast Cancer Patients*”, Advances in Breast Cancer Research, Vol 6 (1), 2017 .

- Matthew E. Verbyla, Erin M. Symonds, **Ram C. Kafle**, Maryann R. Cairns, Mercedes Iriarte, Alvaro Mercado, Olver Coronado, Mya Breitbart, Carmen Ledo, James R. Mihelcic “ *Managing microbial risks from indirect wastewater reuse for irrigation in urbanizing watersheds*”, *Environmental Science & Technology*, Vol 50 (13), 2016.
- Bhikhari P. Tharu, **Ram C. Kafle**, Chris P. Tsokos, “ *Bayesian Age-Period-Cohort Model of Lung Cancer Mortality*”, *Epidemiology, Biostatistics and Public Health*, Vol 12 (3), 2015.
- E.M. Symonds, M.E. Verbyla, J.O. Lukasik, **R.C. Kafle**, M. Breitbart, J.R. Mihelcic, “ *A case study of enteric virus removal and insights into the associated risk of water reuse for two waste water treatment pond system in Bolivia* ”, *Water Research*, Vol 65, 2014.
- **Ram C. Kafle**, Netra Khanal, Chris P. Tsokos, “ *Bayesian Age-stratified Joinpoint Regression Model: An application to Lung and Brain Cancer Mortality*”, *Journal of Applied Statistics*, Vol 41 (12), 2014.
- **Ram C. Kafle**, Netra Khanal, Chris P. Tsokos, “ *Bayesian Joinpoint Regression Model for Childhood Brain Cancer Mortality*”, *Journal of Modern Applied Statistical Methods*, Vol 12(2), 2013.

Submitted for Review:

- **Ram C. Kafle**, Keshav Pokhrel, Netra Khanal, Chris P. Tsokos, “ *Differential Equation Model of Carbon Dioxide Emission Using Functional Linear Regression*”.
- Kedar Nepal, Ramjee Sharma, **Ram C. Kafle**, “ *Why students cannot execute their own global plans*”.

Conference Presentations

08/2017	Presented paper “ <i>Bayesian Approach for Managing Microbial Risks from Wastewater Reuse for Irrigation</i> ”, in Joint Statistical Meeting, 2017 , July 28 - Aug 03, Atlanta, GA.
08/2016	Presented paper “ <i>Estimating Rate of Change of Carbon Dioxide Emission using Functional Approach</i> ”, in Joint Statistical Meeting, 2016 , July 30 - Aug 04, Chicago, IL.
04/2016	Presented paper (Invited) “ <i>Bayesian Quantitative Microbial Risk Assessment Model for Assessing Wastewater Microbial Risks</i> ”, in Frontiers of Statistics-Workshop on Analytics and Big Data Across Disciplines, 2016 , April 1-2, University of South Florida, Tampa, FL
08/2015	Presented paper “ <i>Parametric Mixture Models for Competing Risks Analysis of African American Breast Cancer Patients</i> ”, in Joint Statistical Meeting, 2015 , Aug 8- Aug 13, Seattle, WA.
05/2015	Presented paper “ <i>Functional Regression on Estimating the Rate of Change of Temporal Trends</i> ”, in Seventh International Conference on Dynamic Systems and Applications and Fifth International Conference on Neural, Parallel, and Scientific Computations 2015 , May 27- May 30, Atlanta, GA.

- 04/2015 Presented paper (**Invited**) “*Bayesian Age-stratified Joinpoint Regression Model and Its Application in Public Health Research*”, in **Conference of Texas Statisticians 2015**, April 10- April 11, Austin, TX.
- 01/2015 Presented paper “*Modeling Carbon Dioxide Emission Data using Functional Data Analysis Approach*”, in **Joint Mathematics Meeting 2015**, January 10- January 13, San Antonio, TX.
- 02/2014 Presented paper “*A Study of the Rate of Change of the Major Sources of Emission of Carbon Dioxide in the Atmosphere*”, in **ASA Florida Chapter Meeting 2014**, February 5- February 6, Gainesville, FL.
- 01/2014 Presented paper “*Bayesian Age-stratified Joinpoint Regression Model: An Application to Lung and Brain Cancer Mortality*”, in **Joint Mathematics Meeting 2014**, January 15- January 18, Baltimore, MD.
- 08/2013 Presented paper “*Bayesian Approach to Age-Adjusted Joinpoint Regression Model*”, in **Joint Statistical Meeting**, August 3-August 8, Montreal, Canada.
- 07/2012 Presented paper “*Bayesian Approach of the Joinpoint Regression Model for Brain Cancer Data*”, in **Joint Statistical Meeting**, July 27-August 2, San Diego, California.
- 06/2012 Presented paper “*Bayesian Estimate of Annual Percentage Change in Mortality Trend for Brain Cancer Data*”, in the **International Federation of Nonlinear Analyst (IFNA) World Congress 2012** in Athens, Greece.
- 05/2011 Presented paper “*Theoretical Semi-Parametric Survival Analysis Model*” in **Sixth International Conference on Dynamic Systems and Applications**, May 25-28 at Morehouse College, Atlanta.
- 05/2010 Presented a talk on “*Beauty is in the Eye of Smoothers: Smoothing Spline*” in **Biostatistics Seminar Series**, March 25, 2010 at IUPUI, Indianapolis, IN.
- 12/2009 Presented a talk on “*Variable Selection using Bayesian Approach*” in **Weekly Statistics Seminar**, December 05, 2009 at IUPUI, Indianapolis, IN.

Conference Organization

- 05/2016 Worked as a member of Organizing Committee for International Conference on Applications of Mathematics to Nonlinear Sciences (AMNS-2016), May 26-29, 2016, Kathmandu, Nepal.
- 05/2015 Organized and chaired a session “*Workshop on Bayesian Decision Analysis in Health Sciences*”, in **Seventh International Conference on Dynamic Systems and Applications and Fifth International Conference on Neural, Parallel, and Scientific Computations** in Atlanta GA.
- 05/2015 Co-chaired a session “*Workshop on Functional and Longitudinal Data Analysis*”, in **Seventh International Conference on Dynamic Systems and Applications and Fifth International Conference on Neural, Parallel, and Scientific Computations** in Atlanta GA.
- 06/2012 Organized and chaired a session “*Bayesian Analysis and Modeling*”, in **International Federation of Nonlinear Analyst(IFNA) World Congress 2012** in Athens, Greece.

Conference Participation

04/2017	Conference on Applied Statistics in Agriculture 2017 , April 23-25, 2017, Kansas State University, KS.
03/2017	Conference of Texas Statisticians 2017 , March 24-March 25, Southern Methodist University, Dallas, TX.
01/2017	Joint Math Meeting , Jan 04- Jan 05 at Atlanta, GA.
04/2016	Conference of Texas Statisticians 2016 , April 08-April 09, Trinity University, San Antonio, TX.
08/2011	Joint Statistical Meeting , July 30-August 4 at Miami beach, FL.
02/2011	Annual Meeting of the Florida Chapter of American Statistical Association , February 04-05 at Moffitt Cancer Center in Tampa, FL.
04/2010	Statistics Day , April 29, 2010, at IUPUI, Indianapolis, IN.
10/2008	Annual Conference of The MidWest SAS Users Group , October 12 - 14, 2008 at Indianapolis, IN.
01/2007	Annual Conference of American Mathematical Society , January 05 - 07, 2007 at New Orleans, LA.
10/2006	2nd Annual Conference of Appalachian Association of Mathematics Teacher Educators , October 27-28, 2006 at Morehead State University, KY.

University and Departmental Services

03/2017 –present	Statistics Graduate Committee -Working as a member of Statistics Graduate Committee.
08/2016 –present	Course Coordinator -Working as a Course Coordinator of Elementary Statistics (MATH/STAT 1369).
fall 2016	Graduate Program Review Committee -Worked as a member of Graduate Program Review Committee in fall 2016 semester.
spring 2016	Textbook Selection Committee -Worked as a member of textbook selection committee for Elementary Statistics and Statistical Methods in Practice in Spring 2016 Semester.
01/2011 –07/2014	Urban Scholar Outreach Program (USOP) Volunteered as mathematics tutor to high school students, mostly African American and Hispanic students at the University of South Florida.

Editorial Board

04/2015 –present	Editorial Board , Jacobs Journal of Hydrology.
02/2015 –present	Editorial Board , Peertechz Journal of Health Community and Family Medicine.
05/2012 –present	Managing Co-Editor , International Journal of Environmental Sciences (IJES) (http://www.ifnaworld.org/ojs/index.php/IJES)

Memberships

01/2017 –present	Treasure , Association of Nepalese Mathematicians in America (ANMA)
11/2014 –present	Faculty Advisor , Nepalese Student Association at SHSU
10/2014 –present	Board of Director , International Federation of Nonlinear Analysts (IFNA)
01/2012 –present	Life Member , Association of Nepalese Mathematicians in America (ANMA)
01/2008 –present	Member , American Statistical Association
04/2013 –03/2015	Member , The Mathematics Honor Society, Pi Mu Epsilon
03/2013 –02/2015	Member , The Honor Society of Phi Kappa Phi
06/2013 –06/2014	President , Statistic Club, University of South Florida
05/2012 –06/2013	Vice President , Nepalese Students Association (NeSA), University of South Florida
06/2012 –05/2013	Vice President , Statistic Club, University of South Florida

Awards and Honors

07/2013	“M.V. Johns Jr. Scholarship for Graduate Study in Statistics” awarded by Department of Mathematics and Statistics, USF.
07/2013	“A. N. V. Rao Scholarship Award ” awarded by Department of Mathematics and Statistics, USF.
04/2013	“Tharp Scholarship Award ” awarded by Department of Mathematics and Statistics, USF.
05/2012	“Tharp Scholarship Award ” awarded by Department of Mathematics and Statistics, USF.

Grants Submission

- National Science Foundation Grant- Ecology and Evolution of Infectious Diseases (EEID) (Submitted on 11/17/2015; Not funded)
Title: Minimizing health burdens from de facto wastewater reuse using Bayesian networks for microbial risk assessment. (Submitted being Co-PI with Dr. Mya Breitbart from University of South Florida (PI) and Dr. Maryann R. Cairns from Michigan Technological University (Co-PI).
- University of South Florida Graduate Student Research Challenge Grant (01/2013; \$5000 funded)

Referee

Statistics in Medicine, Journal of Biopharmaceutical Statistics, Journal of Applied Statistics, Breast Cancer: Basic and Clinical Research, Scientific Research Publishing (Open Journal of Statistics), Jacobs Journal of Hydrology

Computing Skills

R, SAS, WinBUGS/OpenBUGS, SPSS, Minitab, C++