Suthakaran Ratnasingam, Ph.D.

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EDUCATION

• Bowling Green State University, Bowling Green, OH, USA

Ph.D. in Statistics Aug 2020

Advisor: Prof. Wei Ning

• University of Nebraska at Omaha, Omaha, NE, USA

M.A. in Mathematics Dec 2015

Advisor: Prof. Steven G. From

• University of Peradeniya, Peradeniya, Sri Lanka

Postgraduate Diploma in Applied Statistics

July 2013

B.Sc. (Honours) in Statistics and Operations Research

Aug 2010

RESEARCH INTERESTS

Change Point Analysis, Sequential Analysis, High-dimensional Data Analysis, Extreme Value Analysis, Confidence Distributions, Empirical Likelihood

PROFESSIONAL EXPERIENCES

• Assistant Professor Aug 2020 - Present

Department of Mathematics California State University, San Bernardino, CA, USA

• Graduate Teaching Associate Aug 2016 - Aug 2020

Department of Mathematics and Statistics
Bowling Green State University, Bowling Green, OH, USA

• Graduate Teaching Assistant Aug 2014 - Dec 2015

Department of Mathematics University of Nebraska at Omaha, Omaha, NE, USA

• Lecturer March 2014 - Aug 2014

Department of Mathematics and Computer Science The Open University of Sri Lanka, Nawala, Sri Lanka

• Teaching Assistant Nov 2012 - March 2014

Department of Mathematics & Philosophy of Engineering The Open University of Sri Lanka, Nawala, Sri Lanka

ARTICLES IN REFEREED JOURNALS

- 7. Ratnasingam, S., & Ning, W. (2021) Monitoring Sequential Structural Changes in Penalized High-Dimensional Linear Models. Sequential Analysis, 40(3), 381-404.

 DOI: https://doi.org/10.1080/07474946.2021.1940500.
- 6. From, S. G., & Ratnasingam, S. (2021) Some New Bounds for Moment Generating Functions of Various Life Distributions Using Mean Residual Life Functions. *Journal of Statistical Theory and Practice*, 15(2), 1-14.

DOI: https://doi.org/10.1007/s42519-021-00176-1.

5. Ratnasingam, S., & Ning, W. (2021) Modified Information Criterion for Regular Change Point Models Based on Confidence Distribution. *Environmental and Ecological Statistics*, 28(2), 303-322.

DOI: https://doi.org/10.1007/s10651-021-00485-5.

4. Ratnasingam, S., & Ning, W. (2021) Sequential Change Point Detection for High-Dimensional Data Using Nonconvex Penalized Quantile Regression. *Biometrical Journal*, 63(3), 575-598.

DOI: https://doi.org/10.1002/bimj.202000078.

- 3. Ratnasingam, S., & Ning, W. (2020) Statistical Inference for the Lomax-Linear Failure Rate Distribution. Far East Journal of Theoretical Statistics, 59(1), 35-58.

 DOI: http://dx.doi.org/10.17654/TS059010035.
- 2. Ratnasingam, S., & Ning, W. (2020) Confidence Distributions for Skew Normal Change Point Model Based on Modified Information Criterion. *Journal of Statistical Theory and Practice*, 14(3), 1-21.

DOI: https://doi.org/10.1007/s42519-020-00108-5.

1. From, S. G., & Ratnasingam, S. (2016), Some New Refinements of the Arithmetic, Geometric and Harmonic Mean Inequalities with Applications, *Applied Mathematical Sciences*, 10(52), 2553-2569.

DOI: http://dx.doi.org/10.12988/ams.2016.66191.

Conference Papers & Presentations

- 2. Ratnasingam, S., Perera, K., Wikramanayake, N. (2014), Rainfall Intensity-DurationFrequency Relationship for Colombo Region in Sri Lanka, *Proceedings of the SAITM Research Symposium on Engineering Advancements*, 101-104pp, 26th April, ISBN 978-955-0638-03-1.
- 1. Ratnasingam, S., Perera, K., Wikramanayake, N. (2014), Identify the Best Probability Distribution for Daily Maximum Rainfall in Colombo, Sri Lanka, *Proceedings of the International Conference on Mathematical Modeling*, 89-93pp, 14th March, ISBN 978-955-046-054-0.

AWARDS & SCHOLARSHIPS

- Graduate College Distinguished Dissertation Award, Bowling Green State University 2020 2021
- J Robert and Gretchen Overman Scholarship, Department of Mathematics and Statistics, Bowling Green State University 2020 - 2021
- UNO Advantage Scholarship, University of Nebraska at Omaha 2014 2015
- Awarded Mahapola Higher Education Scholarship for the Best Performance in G.C.E (A/L), Sri Lanka
 2006 - 2010

PROFESSIONAL DEVELOPMENT

- FCE Certificate in High Impact Practices (HIPs) Teaching & Learning Track, CSUSB Spring 2021
- FCE Certificate in Large Lectures in Distance Learning, CSUSB July 27 Aug 7, 2020
- ISSUES-X Summer Institute, CSUSB

 July 13 -17, 2020

CLASSES TAUGHT

- California State University San Bernardino, CA, USA
 - Math 2265 Statistics with Applications: Fall 20, Spring 21 (2 sections), Fall 21 (2 sections)
 - Math 3460 Probability Theory: Fall 20 (2 sections)
 - Math 4360 Linear Statistical Models: Fall 21
- Bowling Green State University, OH, USA
 - Math 1150 Introduction to Statistics (several sections)
- University of Nebraska at Omaha, NE, USA
 - Several lower-division undergraduate courses
- The Open University of Sri Lanka, Nawala, Sri Lanka
 - Upper- and lower-division undergraduate courses

Conferences & Workshops

- OCLB ASA Application of Statistical Inference through Data Science Techniques Nov 06, 2020
- 25th Distinguished Statistician Colloquium

Oct 14, 2020

- Integrating Big Data into Surveillance Models to Inform Decision Making for COVID-19 Oct 23, 2020
- Advocating for Student of Color: There's More You Can Do Sep 25, 2020
- OCLB ASA 2020 Q3 Quarterly Social Research Showcase

June 22 - July 24

• CourseKata Summer Workshop, CSUSB

A mmil 02 2020

• Teaching Statistics with Simulation-Based Inference Workshop

April 03, 2020

Sep 14, 2020

COLLOQUIUM & SEMINAR TALKS

- Sequential Change Point Detection for High-Dimensional Data using Non-convex Penalized Quantile Regression Colloquium, Department of Mathematics, CSUSB Oct 09, 2020
- Confidence Distribution Statistics Seminar, Department of Mathematics Statistics, Bowling Green State University Sep 19, 2018

SERVICES

- Science Olympiad Bowling Green State University, OH, USA March 09, 2019
- Participated Seven Day Service University of Nebraska at Omaha, NE, USA Fall 2014
- Worked as a volunteer at UNO's Global Study Conference Fall 2014
- Representative of the Staff Student Consultative Committee in the Faculty of Science, University of Peradeniya
 2007 -

REVIEWER FOR THE JOURNALS

- Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences
- Mathematics MDPI
- Journal of Applied Statistics

PROFESSIONAL AFFILIATIONS

• Mathematical Association of America	2014 - Present
American Mathematical Society	2014 - Present
• Statistics Without Borders	2019 - Present

TECHNICAL SKILLS

- Operating platforms: Windows & Linux.
- Statistical Software: R, Python, SAS, JMP, Minitab, SPSS, Matlab.
- Application: LATEX, GitHub.