

# Suthakaran Ratnasingam, Ph.D.

suthakaran.ratnasingam@csusb.edu | | Office: 909-537-5366 | | <https://suthakaranr.github.io>

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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*.  
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-Duration-Frequency Relationship for Colombo Region in Sri Lanka, *Proceedings of the SAIM 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
- 25<sup>th</sup> 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 Sep 14, 2020
- CourseKata Summer Workshop, CSUSB June 22 - July 24
- Teaching Statistics with Simulation-Based Inference Workshop April 03, 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 - 2008

## 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:  $\text{\LaTeX}$ , GitHub.