

Manushi Welandawe

I am currently a PhD candidate in statistics whose main research is focused on improving the robustness and accuracy of existing machine learning methods. I am seeking an internship with the goal of gaining practical experience in data science and in industry. As part of the internship, I am excited to leverage my experiences with statistical modeling, cutting-edge inference methods, and team based project work.



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401-212-3454



Boston, MA



Experience

Research Fellow

Boston University
Boston, MA
Jun 2020 – Present

- Developing a **robust and automated algorithm** for variational inference, to improve parameter estimation of complex and high dimensional data models

Teaching Fellow

Boston University
Boston, MA
Sep 2019 - May 2021

- Led discussions; proctoring and grading in **Time-series analysis** (graduate-level) and Elementary Statistics (undergrad-level)

Administrative Assistant

Univ. of Rhode Island
Kingston, RI
Jan 2018 - Aug 2019

- Provided **statistical consultation** to support local research community
- Organized and conducted workshops/short courses in R, SAS, and SPSS

Teaching Assistant

Univ. of Rhode Island
Kingston, RI
Sep - Dec 2017

- Led discussions; proctoring and grading in Statistics in Modern Society (undergrad-level)

Junior Analyst

PepperCube
Consultants
Sri Lanka
Jan - Jun 2017

- Conducted **statistical analysis** for market research to gain insights in existing or newly developed products & services

Teaching Assistant

Univ. of Sri J'pura
Sri Lanka
Jan - Dec 2016

- Led discussions; proctoring and grading in **Data analysis** (undergrad – level)

Intern

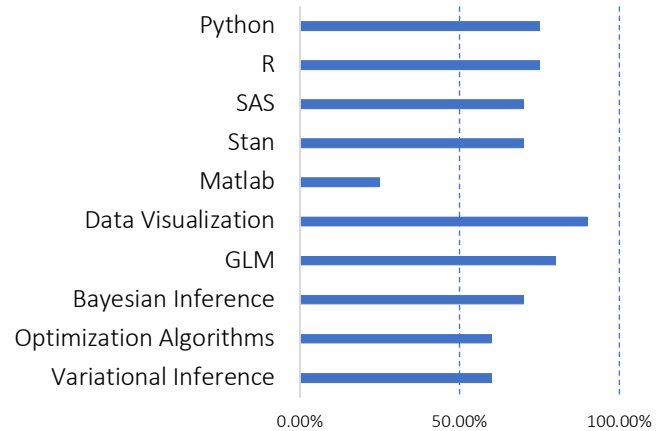
Export Development
Board
Sri Lanka
Jan - Apr 2015

- Developed a **time-series model** to forecast national exports to be used for setting future targets for the year 2020

Volunteer

- Mentoring** an undergraduate student for research (Aug 2021 – Present)
- Member - American Statistical Association (ASA) BU Student Chapter (Sep 2019 – Present)
- Organizing Committee member of URI Grad Con 2019
- Treasurer - ASA URI Student Chapter (Jun 2018 – Aug 2019)

Skills



Education

Ph.D. in Statistics

Boston University
Expected May 2024

MS in Statistics

University of Rhode Island
Aug 2019
Thesis - Mixed-Effects Regression Model for Missing Microbiome Data

BS in Statistics

University of Sri Jayewardenepura
Nov 2015

Relevant Coursework

- Generalized linear models
- Statistical Machine Learning
- Advanced Optimization Algorithms
- Data Science in R

Interests



Swimming



Baking



Yoga



Hiking



Mobile Photography

Publications

- [Welandawe, M.](#), Andersen, M. R., Vehtari, A., & Huggins, J. (In Preparation). [Robust, Automated, and Accurate Black-box Variational Inference](#).
- Dhaka, A. K. *, Catalina, A. *, [Welandawe, M.](#), Andersen, M. R., Huggins, J. H., & Vehtari, A. (2021). [Challenges and Opportunities in High-dimensional Variational Inference](#). In Proc. of the 35th Annual Conference on Neural Information Processing Systems (NeurIPS).
- Silva, E. N. S., Gangopadhyay, A., Fay, G., [Welandawe, M. K.](#), Gawarkiewicz, G., Silver, A. M., ... & Clark, J. (2020). [A Survival Analysis of the Gulf Stream Warm Core Rings](#). Journal of Geophysical Research: Oceans, 125(10), e2020JC016507.
- D'Agata, A. L., Wu, J., [Welandawe, M. K.](#), Dutra, S. V., Kane, B., & Groer, M. W. (2019). [Effects of early life NICU stress on the developing gut microbiome](#). Developmental psychobiology, 61(5), 650-660.

* = contributed equally