Teaching Portfolio

Personal Information

- Name : Fasna Kottakkunnan
- Email : fasna.asc@gmail.com
- Phone : +46761501723
- City : Stockholm, Sweden
- Nationality : Indian
- LinkedIn : https://www.linkedin.com/in/fasna-k/
- Google Scholar : https://scholar.google.com/citations?user=z3zQG0AAAAJ&hl=en
- ResearchGate : https://www.researchgate.net/profile/Fasna-Kottakkunnan?ev=hdr_xprf
- ORCID : https://orcid.org/0000-0003-4862-8967
- Date of Birth : 5 June 1992

Professional Summary

I am a former Lecturer at Stockholm University and Statistician with expertise in data science, statistics, and research methodology. Experienced in teaching, supervising students, and conducting

applied research in public health and statistical modeling. Committed to excellence, innovation, and data-driven solutions. Seeking a Senior Lecturer role at Örebro University to contribute to high-quality teaching, research, and knowledge dissemination.

Skills

- Statistical Analysis & Modeling (R, Python, SAS)
- Data Science & Data Visualization (Power BI, Tableau)
- Teaching, Mentoring & Curriculum Design
- Research & Academic Writing
- Leadership, Communication, Adaptability
- Attention to Detail & Time Management
- Problem-Solving & Critical Thinking

Education

- Ph.D., Statistics, University of Calicut – July 2017 – Jan 2025
- M.Sc., Statistics, University of Calicut – June 2012 – Sept 2014
- B.Sc., Mathematics/Statistics, Govt. Arts and Science College – June 2009 – April 2012
- PGDCA, Gtec Computer Education – Aug 2010 – Dec 2011

Teaching Philosophy

I believe that teaching should foster critical thinking, practical problem-solving, and interdisciplinary learning. My approach integrates applied statistics, computational methods, and real-world data analysis. I prioritize active engagement, hands-on projects, and the use of tools like R, Python, SAS, Power BI, Tableau

etc. to ensure students connect theory with practice. Mentoring and guiding students toward independent, research-oriented thinking is central to my teaching.

Teaching Experience

Period	Institution	Course	Level	Responsibilities
Feb 2025-Jan 2026	Stockholm University	Applied Statistics, Statistical Modeling, Data Analysis	Masters & Bachelors	Lectures, lab sessions, assignments, student mentoring
July 2017-Jan 2025	University Of Calicut India	Research Scholar		Thesis:Some Generalizations of Cauchy Distributions: Focused on extending the classical Cauchy distribution, exploring theoretical properties, and applications in modeling heavy-tailed data.
Nov 2016-July 2017	Assistant Professor University of Calicut, Department	Applied mathematics, Statistics, and	MSc Food Science and Technology.	Lectures, practical labs, interdisciplinary projects

Period	Institution	Course	Level	Responsibilities
	of Health Sciences India	biostatistics		
June 2016-July 2016	University Of Calicut University of Calicut, Department of Life Science India	Biostatistics	MSc Biostatistics	Introduced statistical concepts applied to biological and medical research
Jan 2016-June 2016	University of Calicut, Department of Computer Science & IT India	Numerical Analysis, Optimization Techniques, Graph Theory	MCA	Developed teaching materials, supervised computational projects Prepared lectures, assignments, assessments, guided problem-solving, Projects
2014–2015	Blossom Arts and Science College, India	Mathematics,Statistics and Psycologi	MSc and BSc	Lectures, student mentoring, assignments,

Period	Institution	Course	Level	Responsibilities
		cal Statistics		developed course materials, assessments, and practical exercises for applied statistics education.

Course and Curriculum Development

I have contributed to:

- Designing course materials aligned with learning outcomes
- Developing applied statistical examples for interdisciplinary students
- Creating assignments integrating real-world datasets

Digital and Computational Teaching Skills

I regularly use:

- R and RStudio
- Python
- SQL
- Data visualization tools (Power BI, Tableau)

Supervision and Mentoring

- Supervised MSc and BSc theses in statistics, computational modeling, and data science

- Guided students in simulation studies, Bayesian modeling, and applied statistical analysis
- Mentored students in research methodology, reproducible analysis, and report writing

Teaching Innovations

- Introduced computational and visualization tools for applied statistics courses
- Developed real-world projects linking statistics with public health, epidemiology, and finance
- Encouraged interactive learning through mini-projects, presentations, and interdisciplinary collaboration
- Registered Design – Device for Statistical Analysis:

  Portable statistical analysis device with display and keypad for performing computations (mean, median, mode, standard deviation, regression). Results can be displayed numerically or graphically. It Can be used as a hands-on educational tool in statistics courses to demonstrate computations, data analysis, and graphical outputs in real time, enhancing student understanding and engagement.

Teaching Excellence and Recognition

In recognition of my teaching effectiveness and contribution to student learning, I have received multiple teaching recognitions, including:

- Best Teaching Award for excellence in course delivery, student engagement, and learning impact
- Excellence in Teaching Innovation Award for integrating digital tools and computational methods into statistics teaching

- Student Choice / Outstanding Lecturer Award based on student evaluations and feedback on teaching quality and support

Teaching Training and Pedagogical Development

I continuously improve my teaching through:

- Reflection on student feedback
- Updating course materials with modern statistical methods
- I actively develop and maintain course repositories and course pages on GitHub to support open, reproducible, and accessible statistical education. These platforms allow students to access updated course materials, code examples, and practical data analysis workflows, supporting modern data science teaching practices.
- Adopting new digital teaching tools

Future Teaching Goals

- Expand teaching in advanced data science and statistical modeling
- Integrate digital learning tools and active learning strategies
- Foster cross-disciplinary student projects in statistics, epidemiology, and data science.

******* ******* ****** *******