

STATISTICS PROFESSIONAL

Teaching ✦ Research ✦ Statistical Modeling ✦ Data Analyst ✦ Consultant

Qualified Statistician – Accomplished professional with demonstrated leadership qualities and statistical acumen with a rare combination of analytic and creative skills in research design and analysis. Patency to learn from accomplished peers, while continuing to work in the industry or academia.

Keywords: Assistant Professor, Research, Presentations, Team Management, Project Management, Work Allocation, Training/Skill Development, Continuous Improvements, Volunteering

Office Contact Information

CMC 342,
Department of Mathematics & Statistics,
University of South Florida
4202 East Fowler Ave, Tampa, FL 33620,USA

Education

Ph.D. Candidate, Statistics.	GPA 3.77	May 2015, (anticipated graduation)
University of South Florida, Tampa, FL.		
Tentative Title: "Statistical and Neural Network Modeling of Breast Cancer data".		
Advisor: Professor Chris P. Tsokos		
M.A., Statistics.	GPA 3.75	May 2010
University of South Florida, Tampa, FL.		
M.Sc., Mathematics.	Graduated with Distinction	August 2005
Jawaharlal Nehru Technological University, Hyderabad, India.		
B.Sc., Mathematics and Computer Sciences.	Graduated in First division.	April 2003
Osmania University, Hyderabad, India.		

Work Experience

MANAGING EDITOR (2007-2009)
For an international journal "Differential Equations and Dynamical Systems", Editor-in-chief: Dr V. Sree Hari Rao. A Springer publication.

Academic Experience

UNIVERSITY OF SOUTH FLORIDA, TAMPA, FL, USA (2008-2015)
Adjunct Faculty Fall 2014

Adjunct Faculty

STA 2023: Introduction to Statistics
- Taught approximately 360 freshmen and sophomore students this semester, providing the basic concepts of statistics.

Instructor

Instructor Fall 2009 – Spring 2014
STA 4222: Sample Survey Design Spring 2013, Spring 2012
- Textbook: Survey Sampling (Kish, 1965)
- Taught approximately 20 junior and senior students, introducing basic statistics, SAS basics, statistical thinking, and different types of sampling techniques employed in the real world.
- SAS SURVEYSELECT procedures were demonstrated using real data.
STA 2023: Introduction to Statistics
(Spring 2014, Fall 2013, Fall 2012, Spring 2011, Fall 2011, Spring 2010, Fall 2009)
- Textbook: Understandable Statistics (Brase & Brase 2009); The Joy of Statistics: Learning with Real World data (Tsokos|Wooten,2011)
- Taught approximately 180 freshmen and sophomore students each semester, providing the basic concepts of statistics.
- Introduction to Excel to perform basic statistics using small data sets.

Teaching Assistant

Graduate Teaching Assistant

Fall 2008 – Summer 2014

- Served as teaching assistant for approximately 30 students per semester conducting help sessions of STA 2023, MAC 1105 (College Algebra), MAC 1147 (Trigonometry) for making them understand the material very clearly, etc.
- Structured Quizzes, Made solutions, graded homework and exams, and helped in lab classes
- Held office hours to answer questions of students and help them to solve the problems.

Coordinator

Coordinator for Statistics Peer Leaders

Fall 2010 – Spring 2015

- Job involves calling eligible graduate candidates for interview. Conducting interviews and appointing them for the position.
- Scheduling the time slots and coordinating with library tutoring staff for the space and provisions.

Assistant Professor

MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, INDIA

Assistant Professor of Mathematics

August 2005 – August 2008

- The job involves teaching Engineering Mathematics I, II and III, Discrete Mathematics for B. Tech. & MCA Classes.
- Taught approximately 200 students every semester with various backgrounds and ages on how mathematics and statistics play a vital role in today's world.

Guest Faculty

AMINA INSTITUTE OF TECHNOLOGY, HYDERABAD, INDIA

Guest Faculty

August 2007 – December 2007

Artificial Neural Networks and Applications

- The course involves introduction to Artificial Neural Networks, different types of models and few applications.

Certifications

- “Non-Parametric Analysis”, by Udemy
- “Advanced Power Searching with Google”, by Google corp.
- “Big Data and Hadoop Essentials”, by Course era.
- “Advanced Microsoft Excel 2010” by Infinite Skills Inc.,
- “Data Visualization Essentials for Presentations: Intro”, by Udemy
- “Microsoft Excel Pivot Tables”, by Udemy.

Research Publications

- ✎ Mudunuru V, Vidya Bhargavi M, 2014, ‘*Comparison of Activation Functions in Multilayer Neural Networks for Stage Classification in Breast Cancer*’, in the Proceedings of International Conference on Mathematical Sciences: Chennai, India, Elsevier (pp.145-149)
- ✎ Mudunuru V, Sai Kiran Reddy M, 2014, ‘*POC on Credit Card E-statement Generation using Hadoop*’, Intl. Journal of Computational Engg. Research, Vol 12, 2014 (in press).
- ✎ Mudunuru V, Sampath Reddy K, Vidya Bhargavi M, ‘*A brief Review on History of Breast Cancer*’, Intl. Journal of Current Research and Review, 2015 (in review).

Academic Publications

- ✎ Lecture notes of “*Basics of Statistics*”, First edition, Akshagna Publications; Hyderabad, India. (Expected release: Jan 2015)
- ✎ Published a text book on “*Artificial Neural Networks*” published by Dominion publishers, Hyderabad, India. First edition 2005. Second Edition 2006.
- ✎ Published a student hand book on “*Real Analysis and Topology*” by Dominion publishers, Hyderabad, India.(2004)
- ✎ Worked for solution manual for “*Joy of Statistics*” by Dr Tsokos.

Conference Presentations

- > 2014 - International Conference on Mathematical Sciences, Chennai, India.
 - Comparison of Activation Functions in Multilayer Neural Networks for Stage Classification in Breast Cancer.
- > 2013 - International Conference on Recent Advances in Mathematical Sciences and Applications (RAMSA), Visakhapatnam, India.
 - Comparative Analysis of Artificial Neural Networks and Logistic Regression to Predict Survival of Breast Cancer Patients
- > 2013 - Conference on Nonlinear Systems and Summer School-2013, Katmandu, Nepal.
 - Sampling Techniques as Applied to Cancer Data
- > 2013 – ENAR 2013 International Conference, Orlando.
 - Parametric and Non-Parametric analysis on Colon Cancer Data
- > 2012 - Joint Statistical Meeting, San Diego, CA.
 - Parametric Analysis on Breast Cancer Survival Data
- > 2011 - Sri S.V.University, Tirupati, India.
 - Neural Network approach vs. Statistical modeling
- > 2011 - Sixth International Conference on Dynamic Systems and Applications
 - Parametric Analysis of Breast Cancer
- > 2010 - Fourth International Conference on Neural, Parallel & Scientific Computations.
 - The Log-Logistic distribution as applied to the average tumor size of colon cancer
- > 2009 - American Cancer Society conference conducted by Department of Mathematic and Statistics, USF.
 - Colorectal Cancer data Analysis

Academic Presentations

- Why MCMC? Its advantages and disadvantages. A Neural Network approach.
- Introduction to Bayesian Neural Networks.
- Data Analysis of atmospheric carbon dioxide (CO₂) emissions of Hawaii State.
- Fiducial Inference and an application – A brief review.
- Modeling of breast cancer data using multiple Logistic regression.
- Threshold Autoregressive models for mortality of breast cancer women.
- A detailed review on Generalized Extreme Value distributions.

Honors and Awards

- ◇ Graduate Assistantship, Department of Mathematics and Statistics, University of South Florida. (2008-2014)
- ◇ THARP Scholarship for advancement in Statistics Research, USF. (2010 – 2012)
- ◇ Dr ANV Rao Scholarship, Department of Mathematics & Statistics, University of South Florida. (2011, 2013)
- ◇ Certificate of Recognition for the Provost's award for Outstanding teaching by a Graduate Assistant (2013)
- ◇ Certificate of appreciation for active participation in volunteering for Dr ANV Rao Gurukula Program, USF, Tampa. (2008-2014)

Professional Memberships

- *Member*, ASA - American Statistical Association
- *Member*, IMS - Institute of Mathematical Statistics
- *Global Coordinator*, IFNA - International Federation of Nonlinear Analysts
- *Member*, Statistics Club @ University of South Florida
- *Member*, Pi Mu Epsilon, Florida Chapter, USF. Tampa.

Computer Skills

- ✓ Good Knowledge in SAS 9.2, SPSS, MINITAB, STATISTICA, EASYFIT, among others.
Created and analyzed most of my research (Statistical) models using SAS and SPSS.
- ✓ Well acquainted with MS office (Word, Excel, Power- point), Acrobat Professional package.
- ✓ Fair knowledge in MATHEMATICA, MATLAB and R.

Volunteering

Assistant Director

<http://www.anvgurukula.info>

Actively volunteering at **Dr ANV Rao Gurukula** program, USF on every Saturday & Sunday helping school kids with Mathematics. Also helping them for preparing for FCAT, SAT and MCAT since August 2008 (volunteered approximately about 350 hours). Job also involves managing volunteers, students, arranging quizzes, study materials, among others.

- Volunteered for conducting a Review sessions for Introduction for Statistics (Fall 2010, Spring 2011, Fall 2011) during the exam week organized by Housing & Residential Education, USF, Tampa for three times.
- Volunteered in Library Tutoring (for about 500 hours – Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014, Fall 2014) in teaching Mathematics and Statistics for the students who walked in for help.
- Volunteered as an executive committee member in Sri Vadrevu Seshagiri Rao memorial charitable trust, Hyderabad, India in arranging medical camps, distribution of free medicines, free educational assistance, among many others for not less than five years. (2004-2009)

References

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Founder and Editor-in-chief (1983-Present): Journal of Stochastic Analysis and Applications.
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