

Sasanka Adikari, Ph.D.

Assistant Professor of Mathematics and Data Science

Department of Mathematics ▪ Clarkson University

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Academic and Professional Appointments

2026–Present	Assistant Professor of Mathematics and Data Science Department of Mathematics, Clarkson University, Potsdam, NY
2023–2026	Data Scientist Department of Research and Statistics, Supreme Court of Pennsylvania, Harrisburg, PA
2021–2023	Graduate Research Assistant Old Dominion University Research Foundation, Norfolk, VA
2018–2021	Graduate Teaching Assistant Department of Mathematics and Statistics, Old Dominion University, Norfolk, VA
2016–2018	Graduate Teaching Assistant Department of Mathematics and Statistics, Sam Houston State University, Huntsville, TX
2012–2016	High School Teacher Gateway International School, Sri Lanka
2010–2012	Teaching Assistant Department of Statistics and Computer Science, University of Kelaniya, Sri Lanka

Education

2018–2023	Ph.D. in Computational Mathematics and Statistics Old Dominion University, Norfolk, VA
2016–2018	M.S. in Statistics Sam Houston State University, Huntsville, TX
2012–2014	M.Sc. in Financial Mathematics University of Colombo, Sri Lanka
2005–2009	B.Sc. in Statistics University of Kelaniya, Sri Lanka

Research Interests

- Time Series Analysis and Forecasting
- Discrete Choice Modeling and Behavioral Prediction
- Quantitative Analysis of Criminal Justice Data
- Copula-Based Dependence Modeling
- Spatial and Spatio-Temporal Data Analysis

Publications

Peer-Reviewed Journal Articles

- 2025 H. A. Jeng, N. Diawara, N. Welch, N. Jackson, R. Singh, K. Curtis, R. Gonzalez, D. Jurgens, and **S. Adikari**. “Forecasting COVID-19 cases, hospital admissions, and deaths based on wastewater SARS-CoV-2 surveillance using Gaussian copula time series marginal regression model.” *COVID*, 5(2), 25. doi:10.3390/covid5020025.

- 2024 **S. Adikari**, N. Diawara, and H. Bar. "The geometry of dynamic time-dependent best–worst choice pairs." *Axioms*, 13(9), 641. doi:10.3390/axioms13090641.
- 2024 **S. Adikari** and N. Diawara. "Utility in time description in priority best–worst discrete choice models: An empirical evaluation using Flynn's data." *Stats*, 7(1), 185–202. doi:10.3390/stats7010012.
- 2023 N. Diawara, H. A. Jeng, K. Curtis, R. Gonzalez, N. Welch, N. Jackson, R. Singh, D. Jurgens, **S. Adikari**, and O. Jegede. "Poisson regression model with application to wastewater surveillance under a threshold linear mixed model for COVID-19 sensitivity rates." *American Journal of Biomedical Science & Research*, 20(2). doi:10.34297/AJBSR.2023.20.002683.
- 2023 H. A. Jeng, R. Singh, N. Diawara, K. Curtis, R. Gonzalez, N. Welch, N. Jackson, D. Jurgens, and **S. Adikari**. "Application of wastewater-based surveillance and copula time-series model for COVID-19 forecasts." *Science of the Total Environment*, 885, 163655. doi:10.1016/j.scitotenv.2023.163655.

Doctoral Dissertation

- 2023 **S. Adikari**. *Inference for Multiple Utility in Time-Dependent Choice Pairs Under Copula-Based Models*. Doctoral dissertation, Old Dominion University. doi:10.25777/mtem-6473.

Research Reports

- 2023 K. E. Nieves, A. Ginder, Y. Liu, **S. Adikari**, and A. Pereira. *Caseload Statistics of the Unified Judicial System of Pennsylvania: 2023*. Administrative Office of Pennsylvania Courts. [Report link](#).
- 2022 K. E. Nieves, A. Ginder, Y. Liu, **S. Adikari**, and A. Pereira. *Caseload Statistics of the Unified Judicial System of Pennsylvania: 2022*. Administrative Office of Pennsylvania Courts. [Report link](#).

Teaching Experience

Fall 2026	Clarkson University Probability and Statistics
2018–2021	Old Dominion University Elementary Statistics; Design of Experiments
Fall 2017	Sam Houston State University Elementary Statistics; SPSS
2012–2016	Gateway International School Advanced Calculus; Statistics; Algebra I and II
2010–2012	University of Kelaniya Minitab; Sampling Techniques; Regression Analysis; Operations Research

Awards and Honors

2022	Boyd Harshburger Travel Award , Southern Regional Council on Statistics (SRCOS)
2018	Best Student Teaching Assistant in Statistics , Sam Houston State University
2017–2018	Special Graduate Scholarship , Department of Mathematics and Statistics, Sam Houston State University

Conferences and Professional Events

Selected Presentations and Workshops

2024–2025	New Court Administrator Orientation, Harrisburg, PA
2023	ODU Mathematics Awareness Conference, Norfolk, VA
2022	International Conference on Statistical Distributions and Applications, Huntington, WV
2022	Southern Regional Council on Statistics (SRCOS), Jekyll Island, GA
2021	Annual Meeting of the Virginia Chapter of the American Statistical Association, Norfolk, VA
2021	Workshop on Emerging Data Science Methods for Complex Biomedical and Cyber Data, Augusta University, GA
2018	Conference of Texas Statisticians, University of the Incarnate Word, San Antonio, TX

Other Professional Events

2023–2024	Pennsylvania Association of Court Management, State College, PA
2023–2024	Annual Data Specialists' Roundtable, Williamsburg, VA
2023	Government Innovation Pennsylvania Workshop, Harrisburg, PA
2023	Data Specialist/IT Summit, National Center for State Courts, Annapolis, MD

Professional Development

2023	Common Pleas Case Management System (CPCMS) Training , Administrative Office of Pennsylvania Courts
2023	Tableau Desktop Training for Data Visualization and Reporting , Salesforce
2021	Short Course on Discrete Choice Analysis: Predicting Individual Behavior and Market Demand , Massachusetts Institute of Technology

Professional Memberships

- American Statistical Association (ASA)
- Eastern North American Region (ENAR), International Biometric Society
- Institute of Mathematical Statistics (IMS)
- National Mathematics Honor Society

Leadership and Service

2022	Graduate Student Mentor , SURE Program, Southern Regional Council on Statistics
2021–2022	President , Sri Lankan Association, Old Dominion University
2017–2018	President , Statistics Club, Sam Houston State University
2017–2018	President , Sri Lankan Students' Association, Sam Houston State University
2007–2008	President , Statistics and Computer Science Club, University of Kelaniya