

Biography - Ceyhan

Elvan Ceyhan is Marguerite Scharnagle Endowed Professor in the Department of Mathematics and Statistics at Auburn University. He earned his B.S. in Mathematics from Koç University, his M.S. in Statistics from Oklahoma State University, and both his Ph.D. in Applied Mathematics and Statistics and M.S.E. from Johns Hopkins University. He subsequently completed a postdoctoral fellowship at the Center for Imaging Science at Johns Hopkins University. Before joining Auburn University in 2019, he served on the faculty of Koç University, was a visiting associate professor at the University of Pittsburgh and was Research Associate Professor in Statistics at North Carolina State University, where he also served as Deputy Director of the Statistical and Applied Mathematical Sciences Institute (SAMSI).

Dr. Ceyhan's research lies at the intersection of statistics, applied probability, graph-theoretic methods, machine learning, and stochastic optimization. His work includes contributions to random geometric graphs, graph-based classification and clustering, spatial point pattern analysis, and uncertainty-aware decision-making on networks. He has also developed methods for stochastic and adversarial path planning in uncertain environments, with applications in spatial analysis, statistical learning, network optimization, medical imaging, and ecological modeling. His scholarship includes a substantial body of peer-reviewed work and the development of R packages supporting spatial and graph-based statistical methodology. He has delivered over 90 invited talks and conference presentations worldwide and served as a mentor and principal investigator on projects funded by NSF, ONR, the Simons Foundation, and the European Union Marie Curie Fellowship.

In addition to his research, Dr. Ceyhan has maintained a strong record of teaching, mentoring, and academic leadership. He has taught undergraduate and graduate courses in probability, statistical inference, Bayesian statistics, computational statistics, machine learning, and data science, and has mentored graduate students, postdoctoral fellows, and junior researchers across several institutions. His recent recognitions include the Marie Kraska Award for Excellence in Teaching and the Phi Kappa Phi Love of Learning Award.

Dr. Ceyhan has served the profession through editorial leadership, conference organization, committee work, and service in national and international scientific societies. He currently serves as President of the ASA Alabama-Mississippi Chapter and has held editorial roles with journals including the *Journal of Statistical Computation and Simulation*, *Journal of Probability and Statistical Sciences*, and *Computational Statistics & Data Analysis*. He is an elected member of the International Statistical Institute, a former member of the Board of Directors of the International Association for Statistical Computing-European Regional Section, a former TWAS Young Affiliate Fellow, and a former member (and now alumni member) of the Global Young Academy. At Auburn, he has contributed to interdisciplinary data science initiatives, curriculum development, and broader research outreach. His professional service reflects a sustained commitment to strengthening scientific communities, fostering interdisciplinary collaboration, and supporting the next generation of researchers.

