



Rini Oktavia, S.Si., M.Si., Ph.D

Position

Research Interest: Actuarial Science

Teaching Responsibilities: Teaching in the Mathematics Department: Bachelor and Master of Mathematics Study Program

Academic Career

Doctorate course:, Texas State University, Texas USA - Mathematics (2009-2013); **Magister Course:** The University of Texas at Austin, Texas, USA-Mathematics, (2007-2009); Institut Teknologi Bandung (ITB), Bandung, Indonesia-Mathematics (1995 – 1998); **Bachelor Course:** Institut Teknologi Bandung (ITB), Indonesia - Mathematics, (1988 - 1993)

Employment

Associate Professor in Mathematics Department, FMIPA, USK (April 2025-Now); Lecturer in Mathematics and Statistics, Valparaiso University, USA (2013-2015); Graduate Teaching Assistant, Texas State University, USA (2009-2013); Assistant Professor in Mathematics Department, FMIPA, USK (2007-2025); Expert Assistant in Mathematics Department, FMIPA, USK (2003-2007); Junior Lecturer in Mathematics, UPI, Indonesia (1995-2003)

Research and development projects (last 5 years)

1. Introduction to Data Literacy at the Community Learning Center Forum of Aceh Province/ Community Development of DIKTI Grant/ IDR 42.500.000/ 2024.
2. Utilizing the Investigative Science Learning Environment (ISLE) Framework in a Team-Based Project Approach for Coding Theory Course/ Teaching Grant WCU USK/ IDR 25.000.000/ 2023.
3. Assessing the Contribution of the Non-Formal Education 'Taman Baca' to Student Mastery of Foundational Literacy and Numeracy in Remote Areas of Aceh, Indonesia/ ADBI Research Grant/ USD 12,000/ 2022.
4. Application of Generalized Linear Models (GLMs) to Estimate General Insurance Claim Frequencies and sizes using Poisson, Negative Binomial, Gamma, and Zero-Adjusted Inverse Gaussian Models/ Assistant Professor of USK Grant/ IDR 35,000,000/ 2021.
5. Integrating ISLE in Integrated Science Instruction to Improve Science Teachers' Abilities in STEM Education/ USAID Peer Grant/ USD 231,421/ 2017-2021.

Publications (last 5 years)

1. Julia Novrita, Elizarni, **Rini Oktavia**, Trie Yunita Sari (2025) Making 'Taman Baca' Sustainable", lessons learned from community-based non-formal education in Aceh, Indonesia/International Journal of Educational Development, 113, 103186.
2. **Rini Oktavia**, Rahma Zuhra, Hafnani, Nurmaulidar, Intan Syahrini (2023). Application of Poisson and negative binomials models to estimate the frequency of insurance claims/ Jurnal Natural, 23(1), DOI: <https://doi.org/10.24815/jn.v23i1.26623>
3. **Rini Oktavia**, Dinda Yana, Hafnani, Rahma Zuhra, Ikhsan Maulidi (2022) Estimating Insurance Average Claim Amounts Using Buhlmann- Straub Credibility, in Empowering Science and Transforming Communities through STEM Education/Book Chapter, Syiah Kuala University Press, Aceh: Indonesia. ISBN: 978-623-264-682-7; 978-623-264-683-4
4. Ikhsan Maulidi, Intan Syahrini, **Rini Oktavia**, Ihsan, M., Emha, R. (2021). An analysis on determination of land area claim prediction for rice farmers insurance business in Indonesia using nonparametric bayesian method/J. Phys.: Conf. Ser. 1796 012006.

Membership

Society of Actuaries/ Affiliate Member (2025); International Statistics Institute (ISI)/member (2019 - Now); International Association of Statistics Education (IASE)/member (2015 - Now); IndoMS/member (2013-Now)

External link

http://fsd.usk.ac.id/rini_oktavia/