

Staff Handbook

Please fill out and submit one table per person.

Name	Dr. Syarifah Inayati, S.Pd., M.Sc.		
Post	Statistics		
Academic career	Undergraduate Degree	Universitas Sebelas Maret Surakarta (UNS)	2012
	Master Degree	Universitas Gadjah Mada (UGM)	2014
	Doctoral Degree	Institut Teknologi Sepuluh Nopember (ITS)	2025
Employment	Position: Lecturer	Employer: UNY	Period: 2018-Now
Research and development projects over the last 5 years	Strategi Integrasi SVAR dan Spatial Econometrics dalam Portofolio Saham Syariah (Strategy for Integrating SVAR and Spatial Econometrics in Islamic Stock Portfolio) Year: 2025 Partners: Retno Subekti, Indira Ihnu Brilliant, Rizky Nur'aini Amount of financing: Rp. 24.000.000,- Model Markov Switching Autoregressive dengan Time-Varying Parameter (Markov Switching Autoregressive Model with Time-Varying Parameter) Year: 2023-2024 Partners: Nur Iriawan, Irhamah Amount of financing: Rp. 50.000.000,- Pendekatan Bayesian Mixture of Mixture untuk Analisis Risiko Portofolio (Bayesian Mixture of Mixture Approach for Portfolio Risk Analysis) Year: 2021 Partners: Rosita Kusumawati Amount of financing: Rp. 12.000.000,- Analisis Risiko Investasi Saham Syari'ah Menggunakan Metode Value at Risk Dengan Pendekatan Bayesian Mixture of Mixture (Risk Analysis of Islamic Stock Investment Using the Value at Risk Method with Bayesian Mixture of Mixture Approach) Year: 2020 Partners: Sahid, Rosita Kusumawati Amount of financing: Rp. 18.000.000,- Pendekatan Distribusi Kerugian untuk Analisis Resiko Operasional Perusahaan (Loss Distribution Approach for Company Operational Risk Analysis) Year: 2019 Partners: Sahid, Rosita Kusumawati		

	Amount of financing: Rp. 18.000.000,-
Industry collaborations over the last 5 years	1. Modul Ajar dan Lembar Kerja Berorientasi pada Kemampuan Numerasi sebagai Pengembangan Profesionalitas Guru Matematika SMP Kabupaten Kudus <i>(Teaching Modules and Worksheets Oriented to Numeracy Skills as Professional Development for Junior High School Mathematics Teachers in Kudus Regency)</i> Year: 2025 Partners: Endah Retnowati, Nila Mareta Murdiyani, Amount of financing: Rp. 35.000.000,- Industry collaborations: Junior High School Mathematics Teachers in Kudus Regency 2. Pemanfaatan Media Berbasis Artificial Intelligence dalam Pembelajaran di Sekolah untuk Meningkatkan Literasi IT <i>(Utilization of Artificial Intelligence-Based Media in School Learning to Enhance IT Literacy)</i> Year: 2025 Partners: Wahyu Setyaningrum, Nur Hadi Waryanto, Sahid, Murdanu Amount of financing: Rp. 10.000.000,- Industry collaborations: Department of Education, Youth, and Sports of Yogyakarta City; Junior High School Teachers across the Special Region of Yogyakarta (DIY) 3. Workshop Analisis Perbandingan K Populasi dengan Pendekatan Non Parametrik untuk Penelitian di Bidang Ilmu Sosial dan Pendidikan <i>(Workshop on Comparative Analysis of K Populations with Non-Parametric Approach for Research in Social Sciences and Education)</i> Year: 2021 Partners: Rosita Kusumawati, Kismiantini, Muhammad Fauzan, Ezra Putranda Setiawan, Dhoriva Urwatul Wustqa Amount of financing: Rp. 9.000.000,- Industry collaborations: Practitioners with a Bachelor's Degree and Graduate Students of Universitas Negeri Yogyakarta 4. Workshop Analisis Regresi Logistik untuk Penelitian di Bidang Ilmu Sosial dan Pendidikan <i>(Workshop on Logistic Regression Analysis for Research in Social Sciences and Education)</i> Year: 2020 Partners: Dhoriva Urwatul Wustqa, Kismiantini, Rosita Kusumawati, Ezra Putranda Setiawan, Sahid Amount of financing: Rp. 9.000.000,- Industry collaborations: Practitioners with a Bachelor's Degree and Graduate Students of Universitas Negeri Yogyakarta 5. Workshop Analisis Faktor untuk Dana Penelitian Ilmu Sosial dan Kependidikan <i>(Workshop on Factor Analysis for Social and Educational Research Funding)</i> Year: 2019 Partners: Dhoriva Urwatul Wustqa, Kismiantini, Muhammad Fauzan, Sahid, Rosita Kusumawati

	Amount of financing: Rp. 9.000.000,- Industry collaborations: Practitioners with a Bachelor's Degree and Graduate Students of Universitas Negeri Yogyakarta						
Patents and proprietary rights	<table border="0"> <thead> <tr> <th>Patents (HaKI/HKI)</th><th>Year</th></tr> </thead> <tbody> <tr> <td>Analisis Perbandingan K Populasi Dengan Pendekatan Nonparametrik (Menggunakan Program R) (Comparative Analysis of K Populations with Nonparametric Approach (Using R Program))</td><td>2022</td></tr> <tr> <td>Analisis Regresi Logistik Dengan Program R (Logistic Regression Analysis with R Program)</td><td>2021</td></tr> </tbody> </table>	Patents (HaKI/HKI)	Year	Analisis Perbandingan K Populasi Dengan Pendekatan Nonparametrik (Menggunakan Program R) (Comparative Analysis of K Populations with Nonparametric Approach (Using R Program))	2022	Analisis Regresi Logistik Dengan Program R (Logistic Regression Analysis with R Program)	2021
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Important publications over the last 5 years	International Journal Publications (Scopus/WoS Indexed) Syarifah Inayati, Nur Iriawan, Irhamah. (2024). A Markov switching autoregressive model with time-varying parameters. <i>Forecasting</i>, 6(3), 568590. https://doi.org/10.3390/forecast6030031 Syarifah Inayati, Nur Iriawan, Irhamah.. (2024). Time-varying autoregressive models for economic forecasting. <i>MATEMATIKA, MJIAM</i>, 40(3), 131-142. https://doi.org/10.1113/matematika.v40.n3.1654 International Conference Proceedings (Scopus Indexed) Syarifah Inayati, Nur Iriawan, Irhamah. (2024). Analyzing financial crisis and contagion effect on the Indonesian and United States stock markets via a Markov switching Bayesian vector autoregressive approach. <i>AIP Conference Proceedings</i>, 3201, 060019. 9th SEAMS-UGM 2023 International Conference on Mathematics and Its Applications, 25 – 28 Juli 2023, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada (UGM). https://doi.org/10.1063/5.0231105 Rosita Kusumawati, Syarifah Inayati. (2024). Gaussian mixture distribution with expectation maximization algorithm for portfolio analysis R Kusumawati, S Inayati <i>AIP Conference Proceedings</i> 2622 (1), 110003. International Joint-Seminar 5th ISIMMED and 7th ISSE, 19 -20 November 2021, Yogyakarta, Indonesia, Department of Mathematics Education, Universitas Negeri Yogyakarta. https://doi.org/10.1063/5.0133382 Syarifah Inayati, Sahid, Rosita Kusumawati. (2022). Risk analysis of stock investment using the value at risk methods with the Bayesian normal mixture approach S Inayati, Sahid, R Kusumawati <i>AIP Conference Proceedings</i> 2575 (1), 070008. The 4th International Seminar on Innovation in Mathematics and Mathematics Education (ISIMMED 2020), 15 October 2020, Yogyakarta, Indonesia, Department of Mathematics Education, Universitas Negeri Yogyakarta. https://doi.org/10.1063/5.0108177 Muhammad Zaki Fuadi, Rosita Kusumawati, Syarifah Inayati. (2020). Loss distribution approach for company operational risk analysis. <i>Journal of Physics: Conference Series</i>, 1581, 012016. The 3rd International Seminar on Innovation in Mathematics and Mathematics Education (ISIMMED 2019),						

	3-4 October 2019, Yogyakarta, Indonesia, Department of Mathematics Education, Universitas Negeri Yogyakarta. DOI 10.1088/17426596/1581/1/012016 Additional Publications 7. Hasbi Yasin, Syarifah Inayati, Setiawan. (2022). 3-parameter gamma regression model for analyzing human development index of Central Java Province. <i>BAREKENG: Jurnal Ilmu Matematika dan Terapan</i>, 16(1), 171-180. https://doi.org/10.30598/barekengvol16iss1pp171-180 8. Rahmawati, Syarifah Inayati, Yuliana Yuliana, Anggi Hanafiah. (2021). Prediksi jumlah peserta BPJS penerima bantuan iuran (PBI) APBN menggunakan metode fuzzy time series Cheng (Prediction of BPJS Participants Receiving Contribution Assistance (PBI) from the State Budget (APBN) Using Cheng's Fuzzy Time Series Method). <i>BAREKENG: Jurnal Ilmu Matematika dan Terapan</i>, 15(2), 373-384. DOI: 10.30598/barekengvol15iss2pp373-384 9. Syarifah Inayati, Rahmawati Rahmawati. (2020). Penyelesaian masalah optimisasi multiobjektif nonlinear menggunakan pendekatan Pareto Front dalam metode pembobotan (Solving Nonlinear Multi-Objective Optimization Problems Using the Pareto Front Approach in the Weighting Method). <i>Jurnal Matematika Integratif</i>, 16(2), 139-149. doi:10.24198/jmi.v16.n2.29278.139-149 10. Rosita Kusumawati, Dhoriva Urwatul Wutsqa, Kismiantini Kismiantini, Syarifah Inayati, Muhammad Fauzan, Ezra Putranda Setiawan, Bayutama Isnaini. (2022). Workshop on comparative analysis of k populations with non-parametric for research in social sciences and education. <i>Jurnal Pengabdian Masyarakat MIPA dan Pendidikan MIPA</i>, 6(2), 84-91. https://doi.org/10.21831/jpmmp.v6i2.46055 11. Dhoriva Urwatul Wutsqa, Kismiantini, Muhammad Fauzan, Rosita Kusumawati, Sahiddan Syarifah Inayati. (2021). Workshop analisis faktor untuk data penelitian ilmu sosial dan kependidikan (Factor Analysis Workshop for Social Science and Educational Research Data). <i>Jurnal Pengabdian Masyarakat MIPA dan Pendidikan MIPA</i>, 5(1), 37-46. DOI:10.21831/jpmmp.v5i1.35218. 12. Dhoriva Urwatul Wutsqa, Kismiantini, Rosita Kusumawati, Syarifah Inayati, Sahid, Ezra Putranda Setiawan. (2020). Workshop analisis regresi logistik untuk penelitian di bidang ilmu sosial dan Pendidikan (Logistic Regression Analysis Workshop for Research in Social Sciences and Education). <i>Jurnal Pengabdian Masyarakat MIPA dan Pendidikan MIPA</i>, 4(2), 149-156. http://journal.uny.ac.id/index.php/jpmmp		
Activities in specialist bodies over the last 5 years	Organisation FORSTAT	Role Active Member	Period 2020-Now