

Staff Handbook

Name	<i>Prof. Dr. Sri Andayani, M.Kom.</i>		
Post	<i>Computer in Education; Artificial Intelligence</i>		
Academic career	<i>Doctoral Degree</i>	<i>Universitas Gadjah Mada</i>	<i>2017</i>
	<i>Master Degree</i>	<i>Universitas Gadjah Mada</i>	<i>2002</i>
	<i>Undergraduate degree</i>	<i>Universitas Gadjah Mada</i>	<i>1995</i>
Employment	<i>Tenaga Pengajar/CPNS</i>	<i>Universitas Negeri Yogyakarta</i>	<i>01/02/1997- 01/05/1999</i>
	<i>Asisten Ahli Madya</i>	<i>Universitas Negeri Yogyakarta</i>	<i>01/05/1999 - 01/01/2001</i>
	<i>Asisten Ahli</i>	<i>Universitas Negeri Yogyakarta</i>	<i>01/01/2001 - 01/10/2004</i>
	<i>Instructor (Lektor Muda)</i>	<i>Universitas Negeri Yogyakarta</i>	<i>01/10/2004 - 01/06/2009</i>
	<i>Assistant Professor (Lektor)</i>	<i>Universitas Negeri Yogyakarta</i>	
	<i>Associate Professor (Lektor Kepala)</i>	<i>Universitas Negeri Yogyakarta</i>	<i>01/06/2009 - 30/11/2025</i>
	<i>Profesor (Guru Besar)</i>	<i>Universitas Negeri Yogyakarta</i>	<i>1/12/2025 - now</i>
Research and development projects over the last 5 years	1. Name of project or research focus <i>Cryptography Algorithm Based on De Bruijn Sequences and Fuzzy Logic</i> Period and any other information 2025 – Basic Research (PD) Principal Investigator: Sri Andayani Team Members: Musthofa; Nur Insani Partners, if applicable : – Amount of financing : IDR 52,000,000 2. Name of project or research focus <i>Optimization of Deep Learning Models for Pest and Plant Disease Prediction on Edge Devices through Knowledge Distillation</i> Period and any other information 2025 – Applied Research (PT) Principal Investigator: Sri Andayani Team Members: Thesa Adi Saputra Yusri; Nur Insani		

	Partners, if applicable : – Amount of financing : IDR 50,000,000 3. Name of project or research focus <i>Optimization of Recommendation System for Regional Development Improvement Based on Clustering Analysis</i> Period and any other information 2024 – DIPA UNY (RG) Principal Investigator: Sri Andayani Team Members: Bambang Sumarno Hadi Marwoto; Thesa Adi Saputra Yusri; Fatma Agus Setyaningsih Partners, if applicable : – Amount of financing : IDR 24,000,000 4. Name of project or research focus <i>Interactivity Challenges in Network-Based Media Oriented toward Mathematical Competence</i> Period and any other information 2024 – Internal Funding UNY 2291 (PPGBTDS) Principal Investigator: Sri Andayani Team Members: Thesa Adi Saputra Yusri; Djamilah Bondan Widjajanti; Bambang Sumarno Hadi Marwoto Partners, if applicable : – Amount of financing : IDR 45,000,000 5. Name of project or research focus <i>Clustering Analysis for Regional Development Improvement Recommendation System</i> Period and any other information 2023 – DIPA UNY (RG) Principal Investigator: Sri Andayani Team Members: Bambang Sumarno Hadi Marwoto; Thesa Adi Saputra Yusri Partners, if applicable: – Amount of financing: IDR 18,000,000 6. Name of project or research focus <i>Development of Grade VII Mathematics Learning Media Based on Google Sites Oriented toward Conceptual Understanding and Students' Computational Thinking</i> Period and any other information 2022 – National Competitive Research (PPS-PTM) Principal Investigator: Sri Andayani Team Members: – Partners, if applicable: – Amount of financing : IDR 19,100,000
Industry collaborations over the last 5 years	Project title : <i>Utilization of Generative AI to Support Mathematics Learning for Vocational High School Teachers in Kulon Progo Regency</i> <i>[Pemanfaatan AI Generatif dalam Mendukung Pembelajaran Matematika bagi Guru SMK Kab. Kulon Progo]</i>

	<i>Partners</i> <i>MGMP Matematika SMK Kulon Progo</i> <i>Project title :</i> <i>Training on the Development of Digital Health Promotion Media Assisted by Canva in Gunungkidul Regency</i> <i>[Pelatihan Pengembangan Media Digital Promosi Kesehatan Kabupaten Gunungkidul Berbantuan Canva]</i> <i>Partners</i> <i>Dinas Kesehatan Gunungkidul</i> <i>Project title :</i> <i>Training on Developing Health Data Visualization Dashboards Using MS Excel in Gunungkidul Regency</i> <i>[Pelatihan Pembuatan Dashboard Visualisasi Data Kesehatan Berbasis MS Excel di Kabupaten Gunungkidul]</i> <i>Partners</i> <i>Dinas Kesehatan Gunungkidul</i>
Patents and proprietary rights	<i>Title</i> <i>Year</i>
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (give total number): 8</i> <i>Author(s)</i> <i>Andayani, S.; Retnani, N.; Yusri, T.A.S.; Marwoto, B.S.H.</i> <i>Title</i> <i>A Comparative Analysis of DBSCAN and Gaussian Mixture Model for Clustering Indonesian Provinces Based on Socioeconomic Welfare Indicators</i> <i>Any other information</i> <i>Article • Open Access</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Barekeng, 2025, 19(3), pp. 2039–2056</i> <i>Author(s)</i> <i>Setyaningsih, F.A.; Andayani, S.; Subekti, R.</i> <i>Title</i> <i>The Prediction of Sharia Stock Price by Using Supervised Machine Learning</i> <i>Any other information</i> <i>Article</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Journal of Theoretical and Applied Information Technology, 2025, 103(2), pp. 692–695</i> <i>Author(s)</i> <i>Harahap, L.E.S.; Andayani, S.; Ekwan, D.</i> <i>Title</i> <i>How Does Self-Regulated Learning Affect Students' Mathematics Anxiety?</i>

	<i>Any other information</i> Review • Open Access <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Pedagogical Research, 2025, 10(1), em0230 <i>Author(s)</i> Setyaningsih, F.A.; Surjono, H.D.; Andayani, S. <i>Title</i> A Systematic Review: Employing AI in Adaptive Learning Recommendation System for Vocational Education <i>Any other information</i> Article <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Journal of Theoretical and Applied Information Technology, 2025, 103(16), pp. 6350–6376 <i>Author(s)</i> Saptaningtyas, F.Y.; Andayani, S.; Ahmadi <i>Title</i> Optimal Control Analysis on a New Computer Virus Model with Saturated Incidence, Vaccination, and Treatments <i>Any other information</i> Article • Open Access <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> Communications in Mathematical Biology and Neuroscience, 2024, 2024, Article 92 <i>Author(s)</i> Basri, M.A.A.; Shaharudin, S.M.; Kismiantini; Zainuddin, N.H.; Andayani, S. <i>Title</i> Regionalization of Rainfall Regimes Using Hybrid RF-BS Couple with Multivariate Approaches <i>Any other information</i> Article • Open Access <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> ISPRS International Journal of Geo-Information, 2021, 10(10), 689 <i>Author(s)</i> Fatihah, C.O.S.; Hila, N.Z.; Shaharudin, S.M.; Andayani, S.; Hafizulddin, W.M.W.H. <i>Title</i> The Effect of Aggregating Bootstrap on the Accuracy of Neural Network System for Islamic Investment Prediction <i>Any other information</i> Article
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	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Universal Journal of Accounting and Finance, 2021, 9(4), pp. 604–612</i> <i>Author(s)</i> <i>Wutsqa, D.U.; Aryani, A.S.; Andayani, S.; Kismiantini</i> <i>Title</i> <i>Fuzzy C-Means Clustering for Landslide Mapping in Malang Regency</i> <i>Any other information</i> <i>Article</i> <i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i> <i>Journal of Advanced Research in Dynamical and Control Systems, 2020, 12(7 Special Issue), pp. 1653–1659</i>						
Activities in specialist bodies over the last 5 years	<table><tr><th><i>Organisation</i></th><th><i>Role</i></th><th><i>Period</i></th></tr><tr><td colspan="3"><i>Membership without a specific role need not be mentioned</i></td></tr></table>	<i>Organisation</i>	<i>Role</i>	<i>Period</i>	<i>Membership without a specific role need not be mentioned</i>		
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