

Arif Mu'amar Wahid, M.Kom.

Doctoral researcher in Computer Science | Lecturer in Informatics

Kanazawa University, Japan | Universitas Amikom Purwokerto, Indonesia

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I study plant bioelectric signals, biological time-series representation learning, reliable machine-learning evaluation, and edge/IoT sensing. My broader work spans data mining, educational analytics, and applied intelligent systems.

Public edition generated from the academic CV dated 14 August 2026. Editorial service is dated to that source; present appointments may have changed. Personal phone numbers, membership identifiers and unpublished manuscripts are excluded.

Academic Appointments

PhD student · MEXT scholarship recipient

Kanazawa University, Japan · Oct 2025–present (as of Aug 2026)

Graduate School of Natural Science and Technology, Division of Electrical, Information and Communication Engineering. Research in plant bioelectrical signals, time-series representation learning, and sensing systems.

Lecturer · Department of Informatics

Universitas Amikom Purwokerto, Indonesia · 2025–present (as of Aug 2026)

Faculty of Computer Science. Teaching, student research support, and scholarly publication activities.

Education

PhD Student

Kanazawa University, Japan · Oct 2025–present

Graduate School of Natural Science and Technology; Division of Electrical, Information and Communication Engineering. MEXT Scholarship awardee.

Master of Computer Science

Universitas Amikom Purwokerto, Indonesia · 2023–2025

GPA 4.00/4.00. Thesis: Optimization of Feature Extraction Algorithm and Visual-Based Recommendation in Image-Based Website Theme Recommendation System with Transfer Learning.

Bachelor of Mathematics Education

Universitas Negeri Semarang, Indonesia · 2011–2016

GPA 3.44/4.00. Undergraduate thesis on the effectiveness of probing-prompting learning with question cards for students' problem-solving ability.

Research Interests

Plant bioelectric potentials and plant electrophysiology · Machine learning for biological time-series data · Signal processing, acquisition, and validation · Transfer learning and domain adaptation · Edge/IoT and multisensor environmental sensing · Data mining, applied artificial intelligence, and educational analytics

Academic and Professional Experience

Lecturer, Department of Informatics, Faculty of Computer Science

Universitas Amikom Purwokerto, Indonesia · 2025–present

Teaching and student research support in informatics, including Data Science, Multivariate Analysis, Persuasive Technology, machine learning, and predictive analytics. On doctoral study in Japan under MEXT.

Staff, Educational Development and Quality Assurance Center

Universitas Amikom Purwokerto, Indonesia · 2017–present

Study-program and institutional accreditation, academic program development, KPI monitoring, curriculum development, internal quality assurance and audit.

Teaching and Research Assistant

Universitas Amikom Purwokerto, Indonesia · 2023–2024

Assisted Data Science, Multivariate Analysis, and Persuasive Technology teaching and student projects in analytics and machine learning.

Teaching and Research Competencies

Teaching: Data Science, Multivariate Analysis, Persuasive Technology, Machine learning and predictive-analytics projects

Machine learning and AI

Deep learning, Transformer models, representation learning, transfer learning, domain adaptation, ensembles, and explainable AI.

Time-series and biosignal analysis

Preprocessing, segmentation, feature extraction, temporal models, leakage-aware validation and reproducibility.

Evidence synthesis

Systematic and scoping reviews, PRISMA-style screening, structured extraction and quality assessment.

IoT and experimental sensing

ESP32 sensing, environmental monitoring, cloud telemetry, DAQ/sensor integration and Graphtec GL900 experimental workflows.

Higher education and digital systems

Quality assurance, accreditation, curriculum support, KPI analytics, data warehousing, and WordPress/CMS web development.

Awards and Scholarships

- 2nd Place — Data Mining Competition, Indoneris National IT Competition (2024)
- MEXT Scholarship (2025)
- Amikom Purwokerto Foundation Scholarship (2023)
- Best Employee Award, Universitas Amikom Purwokerto (2020)
- Academic Development Program Scholarship (2013)

Professional Memberships

The Japanese Society for Artificial Intelligence (JSAI)

Student Member · since Jul 2026

Information Processing Society of Japan (IPSJ)

Student Member · since May 2026

Selected Academic Leadership

Chair, Graduate Student Association

Universitas Amikom Purwokerto · Jun 2024–Mar 2025

Vice President, Student Executive Board

Universitas Negeri Semarang · Jan–Dec 2015

Editorial, Reviewing and Conference Service

Appointments below are documented in the August 2026 CV; current status is not independently reconfirmed.

National Editorial Board Member

TIERS Information Technology Journal · Listed in CV, Aug 2026

Executive Manager / Principal Contact

International Journal for Applied Information Management (IJAIM) · Listed in CV, Aug 2026

Reviewer

Jurnal Pendidikan dan Teknologi Indonesia (JPTI) · Listed in CV, Aug 2026

Support Contact

Artificial Intelligence in Learning · Listed in CV, Aug 2026

Conference organizing and peer-review support

ICCRAIDS 2026, Purwokerto · 10–11 Apr 2026

Research and Conference Presentations

A Systematic Review of Plant Bioelectrical Potential Acquisition Systems for Edge Sensing

10 Apr 2026 · Oral conference presentation

ICCRAIDS 2026, Purwokerto, Indonesia

A Systematic Review of Plant Bioelectrical Potential Acquisition Systems for Edge Sensing

27–28 Apr 2026 · Research poster

NTNU × Realtek AIoT Workshop, Kanazawa University, Japan

Transformer-Based Models for Enhanced Plant Bioelectric Signal Classification

2025 · Oral conference presentation

ICITISEE 2025

Transformer-Based Models for Enhanced Plant Bioelectric Signal Classification

22 Dec 2025 · Research poster

Kanazawa University Innovation Symposium 2025 Winter

Beyond ChatGPT: Menjadi Mahasiswa Cerdas dan Berintegritas di Era AI

16 Aug 2025 · Invited seminar/workshop

PKKMB FMIPA, Universitas Jenderal Soedirman

Funded Research Experience

Project participation from the master CV; principal-investigator or awardee role is not inferred.

Integration of Differentiated Learning Theory and Universal Design for Learning in Interactive Multimedia Learning for Low Vision Students through E-Learning Technology

Indonesian Ministry of Education, Culture, Research and Technology · 2024

Inclusive Education Innovation: Development of an Intelligent E-Learning System Based on Smart Content at Universitas Amikom Purwokerto

Indonesian Ministry of Education, Culture, Research and Technology · 2024

Optimization of Feature Extraction Algorithm and Visual-Based Recommendation in Image-Based Website Theme Recommendation System with Transfer Learning

Indonesian Ministry of Education, Culture, Research and Technology · 2024

Analysis of Factors Determining Student Satisfaction Using Decision Tree, Random Forest, SVM, and Neural Networks: A Comparative Study

Universitas Amikom Purwokerto · 2024

Optimizing Higher Education Performance Through Data Integration Using the Zachman Framework: A Case Study on LAM Infokom Accreditation Criteria

Universitas Amikom Purwokerto · 2024

Books and Book Chapters

Pemrosesan Bahasa Alami: Konsep, Algoritma & Implementasi

2025 · Co-authored book

Zahira Media Publisher · ISBN 9786238481958

Library and Module

2024 · Book chapter · Python Programming Basics

Yayasan Tri Edukasi Ilmiah · ISBN 978-623-10-2543-2

Machine Learning

2024 · Book chapter · Artificial Intelligence

CV Lauk Puyu Press · ISBN 978-623-10-4426-6

AI and Machine Learning

2024 · Book chapter · Introduction to Computer Science

CV Lauk Puyu Press · ISBN 978-623-10-2166-3

Interactive Multimedia

2024 · Co-authored book

CV ZT Corpora · ISBN 978-623-8481-78-1

Intellectual Property and Creative Works

AMPU MART Voucher Redemption System

2024 · Registered creative work; co-creator

Rynka: Integrated Retail and B2B App

2024 · Registered creative work; co-creator

Video Animasi 3D dan Teknik Live Shot

2024 · Institutional HKI listing; co-creator

Published Journal and Conference Work

38 published research or community-engagement records from the website's verified publication collection. Books and chapters are listed above; unpublished submissions are omitted.

2026. A Systematic Review of Plant Bioelectrical Potential Acquisition Systems for Edge Sensing. Arif Mu'amar Wahid, Hidetaka Nambo. 2026 International Conference on Current Research in Artificial Intelligence and Data Science (ICCRAIDS). DOI

2026. Dynamic Knowledge Intelligence for Human AI Collaborative Operational Decision Making Across Distributed Enterprise Data Environments. Arif Mu'amar Wahid, Rizky Rahmatullah. International Journal for Applied Information Management, 6(3), 382-401. DOI

2026. Exploring the Role of AI in Marketing and Technology Readiness in Enhancing Customer Satisfaction and Business Performance in E-commerce. Taqwa Hariguna, Retno Waluyo, Melia Dianingrum, Arif Mu'amar Wahid. ASEAN Journal of Scientific and Technological Reports, 29(1), Article e258998. DOI

2026. From Prediction to Targeting: Comparative ML Models and Threshold-Based Re-Enrollment Segmentation in Higher Education Marketing. Akto Hariawan, Arif Mu'amar Wahid, Sultan Ananda Haikal, Prayoga Pribadi. Sinkron: Jurnal dan Penelitian Teknik Informatika, 10(1), 755-770. DOI

2026. GAN-Enhanced Radial Basis Function Networks for Improved Landslide Susceptibility Mapping. Chyntia Raras Ajeng Widiawati, Ika Maulita, Yuli Purwati, Arif Mu'amar Wahid. Journal of Applied Data Sciences, 7(1), 554-566. DOI

2026. Optimalisasi Pembelajaran melalui Workshop Pemanfaatan Kecerdasan Artifisial bagi Guru SMK Negeri 1 Pekalongan. Arif Mu'amar Wahid, Ika Maulita, Gilang Dely Mukti, Firman Zamzami Aziz. DIMA: Jurnal Pengabdian Masyarakat, 4(1).

2026. Pelatihan Pengelolaan Keuangan dan Pemasaran Digital bagi Pengelola Warung Kopi Berbasis Masjid. Abdul Jahir, Amin Nasyith, Arif Mu'amar Wahid. Solidaritas: Jurnal Pengabdian, 6(1), 1-8. DOI

2026. Transformer Adaptation for Plant Bioelectric Potential Classification: A Scoping Review and Analogical Transfer Framework. Arif Mu'amar Wahid, Wiga Maulana Baihaqi, Hidetaka Nambo. Smart Agricultural Technology, 15 (December 2026), Article 102484. DOI

2026. Transnational Academic-Community Partnerships: Facilitating Financial Capability and Remote Higher Education for Indonesian Overseas Workers in Japan. Dhanar Intan Surya Saputra, Imam Tahyudin, Arif Mu'amar Wahid, Achmad Gazali, Miqdad Al Muflih, Rujianto Eko Saputro. JMM (Jurnal Masyarakat Mandiri), 10(4), 4986-4997. DOI

2025. Analyzing Customer Spending Based on Transactional Data Using the Random Forest Algorithm. Quba Siddique, Arif Mu'amar Wahid. International Journal for Applied Information Management, 5(2), 111-124. DOI

2025. Comparative Analysis of Machine Learning Algorithms for Predicting Student Continuance Intention on an E-Learning Platform. Rujianto Eko Saputro, Arif Mu'amar Wahid, Sazilah Binti Salam. 2025 9th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE). DOI

- 2025. Comparative Analysis of Machine Learning Models for Predicting Pest and Disease Outbreaks in Rice Crops Based on Weather Conditions.** Abdul Azis, Arif Mu'amar Wahid, Dyah Ayu Widyaningsih, Khanivia Yuniska Putri. 2025 9th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE). DOI
- 2025. Deep Learning for Malaria Classification Leveraging GAN-Augmented with Transfer Learning.** Chyntia Raras Ajeng Widiawati, Arif Mu'amar Wahid, Hikmalul A'la Syahrizaldy, Karina Puspita Prameswari. 2025 1st International Conference on Artificial Intelligence Technology (ICoAIT). DOI
- 2025. Empirical Analysis of Social Media Interaction Metrics and Their Impact on Startup Engagement.** Arif Mu'amar Wahid, Ika Maulita. International Journal of Informatics and Information Systems, 8(3), 161-174. DOI
- 2025. Fraudulent Transaction Detection in Online Systems Using Random Forest and Gradient Boosting.** Satrya Fajri Pratama, Arif Mu'amar Wahid. Journal of Cyber Law, 1(1), 88-115. DOI
- 2025. Identifying Key Factors Influencing Student Satisfaction Using Explainable AI and Shapley Additive Explanations for Predictive Modeling.** Andi Dwi Riyanto, Arif Mu'amar Wahid, Aniec Anafisah Pratiwi. 2025 9th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE). DOI
- 2025. Implementasi Pelatihan Kesiapsiagaan Bencana Gempa Bumi Berbasis Kerangka SFDRR di SMA Negeri 1 Padamara.** Ika Maulita, Sugito, Umi Pratiwi, Arif Mu'amar Wahid. JURPIKAT (Jurnal Pengabdian kepada Masyarakat), 6(4), 2121-2130. DOI
- 2025. Mining Public Sentiment and Trends in Social Media Discussions on Indonesian Presidential Candidates Using Support Vector Machines.** Satrya Fajri Pratama, Arif Mu'amar Wahid. Journal of Digital Society, 1(2), 138-151. DOI
- 2025. Optimization of Recommender Systems for Image-Based Website Themes Using Transfer Learning.** Arif Mu'amar Wahid, Taqwa Hariguna, Giat Karyono. Journal of Applied Data Sciences, 6(2), 952-968. DOI
- 2025. Optimizing higher education performance through data integration using the zachman framework: A case study on LAM infokom accreditation criteria.** Abdul Jahir, Arif Mu'amar Wahid, Tri Titis Sufranto. Jurnal Nasional Teknologi dan Sistem Informasi, 10(3), 201-215. DOI
- 2025. Pelatihan Intel SFI Framework untuk Peningkatan Keterampilan Teknologi Asisten Praktikum Universitas Amikom Purwokerto.** Akto Hariawan, Arif Mu'amar Wahid, Teppei Jordy L'ga Tama, Sultan Ananda Haikal, Prayoga Pribadi. Community Impact and Society Empowerment Journal, 1(2), 36-41.
- 2025. Pemanfaatan Teknologi untuk Meningkatkan Pembelajaran Inklusif bagi Dosen Fakultas Ilmu Komputer Universitas Amikom Purwokerto.** Rujianto Eko Saputro, Arif Mu'amar Wahid, Novita Eka Ramadhani, Lughri Wijaya Pamungkas. JURPIKAT (Jurnal Pengabdian kepada Masyarakat), 6(4), 2084-2092. DOI
- 2025. Penguatan Keterampilan Menulis Ilmiah Dosen Universitas Amikom Purwokerto pada Bidang Data Science untuk Publikasi Internasional.** Taqwa Hariguna, Sarmini Sarmini, Arif Mu'amar Wahid, Satrya Fajri Pratama, Ding Yi. Jurnal Abdi Masyarakat Indonesia, 5(5), 2053-2062. DOI
- 2025. Peningkatan Kompetensi Literasi Digital Siswa SMK Mitra Universitas Amikom Purwokerto.** Agung Prasetyo, Arif Mu'amar Wahid, Desta Olivia. Community Impact and Society Empowerment Journal, 1(2), 50-58.
- 2025. Transformasi Media Pembelajaran Melalui Pelatihan AI untuk Meningkatkan Kompetensi Digital Guru di SD Negeri 2 Gandatapa.** Abdul Azis, Arif Mu'amar Wahid, Dyah Ayu Widyaningsih, Khanivia Yuniska Putri. JURPIKAT (Jurnal Pengabdian kepada Masyarakat), 6(3), 1666-1675. DOI
- 2025. Transformer-Based Models for Enhanced Plant Bioelectric Signal Classification.** Arif Mu'amar Wahid, Hidetaka Nambo. 2025 9th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE). DOI
- 2024. Analisis Komparatif Linear Regression, Random Forest, dan Gradient Boosting untuk Prediksi Banjir.** Ika Maulita, Chyntia Raras Ajeng Widiawati, Arif Mu'amar Wahid. Jurnal Pendidikan dan Teknologi

Indonesia, 4(8), 369–379. DOI

2024. Analysis of Factors Determining Student Satisfaction Using Decision Tree, Random Forest, SVM, and Neural Networks: A Comparative Study. Andi Dwi Riyanto, Arif Mu'amar Wahid, Aniec Anafisah Pratiwi. Jurnal Teknik Informatika (Jutif), 5(4), 187–196. DOI

2024. Economic Decentralization through Blockchain Opportunities Challenges and New Business Models. Berlilana, Arif Mu'amar. Journal of Current Research in Blockchain, 1(2), 112–123. DOI

2024. Enhancing Collaboration Data Management Through Data Warehouse Design: Meeting BAN-PT Accreditation and KERMA Reporting Requirements in Higher Education. Arif Mu'amar Wahid, Lasmedi Afuan, Fandy Setyo Utomo. Jurnal Teknik Informatika (Jutif), 5(6), 1517–1527. DOI

2024. Exploring the impact of discount strategies on consumer ratings: An analytical study of Amazon product reviews. Berlilana, Arif Mu'amar Wahid, Dewi Fortuna, Alfin Nur Aziz Saputra, Galih Bagaskoro. Journal of Applied Data Sciences, 5(1), 158–172. DOI

2024. Optimasi Logistic Regression dan Random Forest untuk Deteksi Berita Hoax Berbasis TF-IDF. Arif Mu'amar Wahid, Turino, Khabib Adi Nugroho, Titi Safitri Maharani, Darmono, Fandy Setyo Utomo. Jurnal Pendidikan dan Teknologi Indonesia, 4(8), 381–392. DOI

2024. Optimizing Feature Extraction for Website Visuals: A Comparative Study of AlexNet and Inception V3. Arif Mu'amar Wahid, Taqwa Hariguna, Giat Karyono. 2024 12th International Conference on Cyber and IT Service Management (CITSM). DOI

2024. Peningkatan Kapasitas Digital Berkelanjutan pada PAC GP Ansor Kroya. Andi Dwi Riyanto, Arif Mu'amar Wahid, Aniec Anafisah Pratiwi. Solidaritas: Jurnal Pengabdian, 4(2), 197–208. DOI

2024. Predicting Post-Earthquake Building Damage Using Random Forest and Gradient Boosting Algorithms: A Data Mining Approach on the 2015 Nepal Earthquake Dataset. Ika Maulita, Arif Mu'amar Wahid. Prosiding Seminar Nasional Ilmu Komputer 2024, pp. 84–94.

2024. Prediksi Magnitudo Gempa Menggunakan Random Forest, Support Vector Regression, XGBoost, LightGBM, dan Multi-Layer Perceptron Berdasarkan Data Kedalaman dan Geolokasi. Ika Maulita, Arif Mu'amar Wahid. Jurnal Pendidikan dan Teknologi Indonesia, 4(5), 221–232. DOI

2024. Time series analysis of bitcoin prices using ARIMA and LSTM for trend prediction. Berlilana Berlilana, Arif Mu'amar Wahid. Journal of Digital Market and Digital Currency, 1(1), 84–102. DOI

2018. Village Administration Services Information System. Andi Dwi Riyanto, I. Santiko, Arif Mu'amar Wahid. CITISEE 2018.

Academic Profiles and Contact

Google Scholar

ORCID

ResearchGate

GitHub

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