

Curriculum Vitae

Personal Information

Name	Ming-Ren Yang, Ph.D.
Position Title	Assistant Professor
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Education

Duration	Institution	Degree
Sep. 2014- Jan. 2024	Systems Engineering, Department of Electrical Engineering, National Taiwan University of Science and Technology	Ph. D.
Sep. 2009- Jun. 2011	Management Information System, Huafan University	Master

Licenses & Certifications

ACA FLASH CS5	ACA
ACA PHOTOSHOP CS5	ACA
SSE Big Data Knowledge Today	SSE
SSE R Language Today	SSE
Information Technology Specialist: Python	Pearson
AI-900:Microsoft Azure AI Fundamentals	microsoft
Information Technology Specialist: Computational Thinking	Pearson
Information Technology Specialist: Cybersecurity	Pearson
Cisco: CCST	Pearson/ Cisco

Computer Hardware Installation Level C,	Council of Labor Affairs
Google Gemini AI General Literacy Course Certification	Taiwan Digital Culture Association
TQL Project Management Core Certification	Computer Skills Foundation

Specialties and Research Interests

1. Artificial Intelligent
2. Bioinformatics
3. Intelligent computing

Professional Appointment

Duration	Title	Institution
2025/8-present	Assistant Professor	National Taipei University of Nursing and Health Sciences
2024/10-2025/7	Postdoctoral researcher	Graduate Institute of Biomedical Informatics, Taipei Medical University
2019/9-2024/7	Research Assistant of National Science and Technology Accounting	Graduate Institute of Biomedical Informatics, Taipei Medical University

Journal Publications

1. J Cia , ZJ Lee*, Z Lin, **MR Yang**, “A Novel SHAP-GAN Network for Interpretable Ovarian Cancer Diagnosis”, Mathematics, 13(5), 882.
2. Duyen Thi Do, **Ming-Ren Yang**, Tran Nam Son Vo, Nguyen Quoc Khanh Le, Yu-Wei Wu*, “Unitig-Centered Pan-Genome Machine Learning Approach for Predicting Antibiotic Resistance and Discovering Novel Resistance Genes in

- Bacterial Strains”, Computational and Structural Biotechnology Journal, 23:1864-1876, 2024.
3. ZJ Lee*, **MR Yang**, BJ Hwang (2024), A Sustainable Approach to Asthma Diagnosis: Classification with Data Augmentation, Feature Selection, and Boosting Algorithm, *Diagnostics*, 14(7), 723.
 4. **Ming-Ren Yang**, Shun-Feng Su, and Yu-Wei Wu* (2023), “Using bacterial pan-genome-based feature selection approach to improve the prediction of minimum inhibitory concentration (MIC)”, *Frontiers in Genetics*, 14:1054032.
 5. **Ming-Ren Yang** and Yu-Wei Wu* (2023), “A Cross-Validated Feature Selection approach for extracting the most parsimonious feature sets and discovering potential antimicrobial resistance (AMR) biomarkers”, *Computational and Structural Biotechnology Journal*, 21:769-779.
 6. Duyen Thi Do, **Ming-Ren Yang**, Luu Ho Thanh Lam, Nguyen Quoc Khanh Le*, and Yu-Wei Wu* (2022), “Improving MGMT methylation status prediction of glioblastoma through optimizing radiomics features using genetic algorithm-based machine learning approach”, *Scientific Reports*, 12:13412.
 7. **Ming-Ren Yang** and Yu-Wei Wu* (2022), “Enhancing predictions of antimicrobial resistance of pathogens by expanding the potential resistance gene repertoire using a pan-genome-based feature selection approach”, *BMC Bioinformatics*, 23:131.
 8. **Ming-Ren Yang**, Zne-Jung Lee, Chou-Yuan Lee, Bin-Yu Peng, Hsiang Huang (2017), “An Intelligent Algorithm Based on Bacteria Foraging Optimization and Robust Fuzzy Algorithm to Analyze Asthma Data”, *International Journal of Fuzzy Systems*, 1-9.
 9. **楊明仁***、葉雅正、梁伊傑(2021), 我國撞球學位論文研究主題探討, 休閒與社會研究第廿四期, 12.
 10. 李仁鐘、潘季豪、林辰謹、**楊明仁**(2014), 企業對員工可攜式設備管理之研究-以 H 公司為例, 電腦科學與教育科技學刊 vol4.
 11. **楊明仁***、李秋緣、張力允、呂聰輝、林詩偉、李仁鐘(2012), 模擬退火法結合禁忌搜尋演算法求解協同配送問題, 華岡工程學報