UPH | FACULTY OF ARTIFICIAL INTELLIGENCE
UNIVERSITAS PELITA HARAPAN

# Faculty of Artificial Intelligence

**2025**

# Why Choose Faculty of Artificial Intelligence at UPH

### World-Class Education
Learn from top-tier faculty from China, the US, and other leading tech nations.

### International Collaboration & Research Opportunities
with global experts and gain access to groundbreaking AI research.

### Affordable and Accessible Learning
thanks to our flexible student assistantship program.

### Hands-on Learning & Real-World Projects
Get hands-on experience working on real-world AI projects that prepare you for industry challenges.

### Guaranteed Job Opportunities Post-Graduation
with top AI companies upon graduation.

### Global AI Industry Demand
AI is the future-be part of a fast-growing industry that's shaping the world.

### Access to State-of-the-Art AI Labs
Work in AI labs equipped with the latest tools and resources to enhance your skills.

## Be a Part of

# Indonesia's Leading AI Institution

Join the first university in Indonesia offering an AI program with international faculty and industrial ties.

*"Industries such as technology, healthcare, finance, automotive, and entertainment, where AI and Machine Learning technologies are being increasingly adopted.*

# Our Programs

## WHAT YOU WILL LEARN

- Machine Learning
- Natural Language Processing
- Computer Vision
- Deep Learning
- Large Language Models
- Algorithms in Generative AI
- Research & Development
- Internships & Practical Training

## CAREER OPPORTUNITIES

- AI Engineer
- Data Scientist
- Machine Learning Engineer
- Computer Vision Engineer
- Natural Language Processing (NLP) Engineer
- AI Product Manager
- AI Researcher
- Robotics Engineer

## OUTSTANDING FEATURES

The AI Program at UPH is designed to equip students with the foundational knowledge and skills to excel in all aspects of AI, both practical and theoretical.

Students will have the opportunity to learn from an international faculty of AI professionals and researchers from China, the US, and other leading countries.

Through strategic partnerships, students will collaborate with industry experts and gain insights from lecturers with real-world experience.

The program emphasizes hands-on learning, providing students with the chance to work on AI applications that have a direct business impact.

The curriculum emphasizes a strong mathematical and logical foundation and giving students the opportunity to apply their knowledge through real world AI projects in the industry or advance AI development through research.

## Partners

### Work Providers



米塔碳 · Adobe · MULTIPOLAR · Merkle Innovation · mppa
Siloam Hospitals · NOBU NATIONAL BANK · D&W INTERNATIONAL · ctigroup
AIPLUX · Project Management Institute · Alibaba Cloud · SIMTEK

### Academic

International



A·P·U CAREER CENTRE

# Academic Dean and Dean Profile

## Academic Dean
## Faculty of Artificial Intelligence

*Wang Bin, Ph.D.,* is a researcher specializing in *Computer Vision, Medical Image Analysis, and Computer Graphics.* He earned his doctorate from *Zhejiang University and Johns Hopkins University.* His work includes self-supervised video representation learning, knowledge graph embedding, and gastroscopic lesion surveillance. In addition to research, he *teaches AI, Data Structures, and Deep Learning.*

### *Wang Bin*
*Ph.D., Zhejiang University dan John Hopkins University*

## Dean
## Faculty of Artificial Intelligence

*Rizaldi Sistiabudi Ph.D.* is a distinguished leader in *biomedical engineering, entrepreneurship, and technology.* Earning his doctorate from *Purdue University*, his past research focused on t*issue engineering, nanotechnology, and drug delivery*. He has published numerous scientific journal articles and patents. His experience in technology development includes leading commercialization efforts at the *Alfred Mann Institute for Biomedical Development and founding several startups in Indonesia*. He currently serves as the *CEO of PT. Realta Chakradarma*, one of Indonesia's leading ICT solutions company. Dr. Sistiabudi is dedicated to mentoring the next generation and advancing interdisciplinary innovation in both *academia and industry.*

### *Rizaldi Sistiabudi Ph.D.*
*Doctor of Philosophy in Biomedical Engineering, Purdue University*

# UPH AI Faculty Team

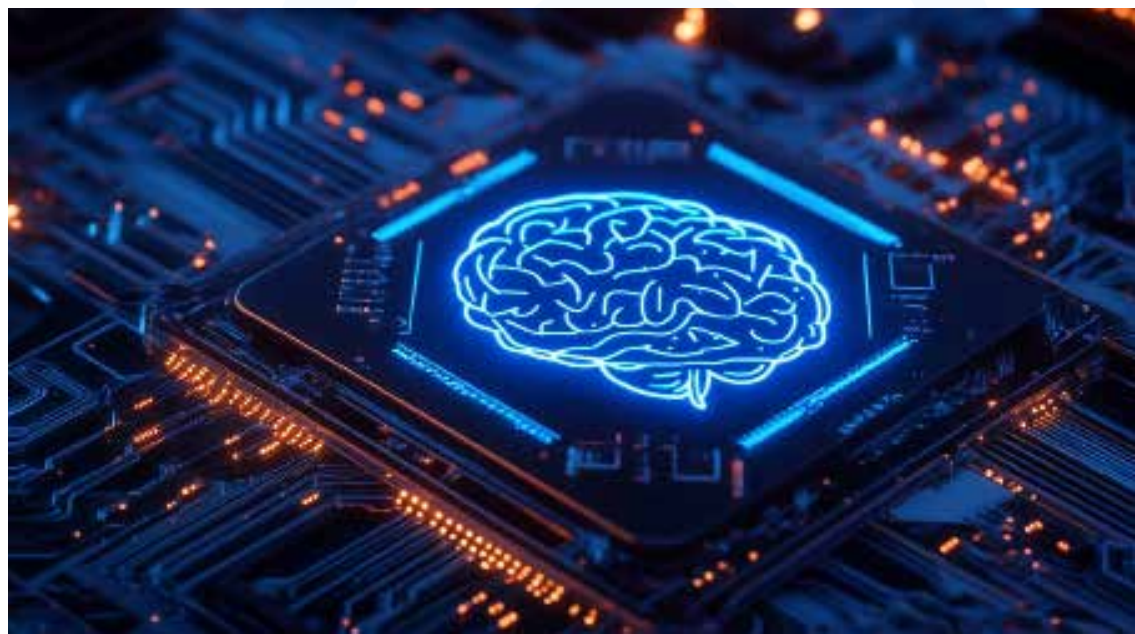| | RESEARCH FOCUS | KEYWORDS | TEACHING |
|---|---|---|---|
| Liu Hantang (Ph.D., Zhejiang University) | Interpret architectural structures and generate 3D building models | • **Facade Parsing with AI:** Improved AI's ability to interpret architectural structures<br>• **AI Tracking Systems:** Built robust tracking models for AI applications | Advanced C++, Reinforcement Learning, Linear Algebra |
| Feng Yutong (Master's, Tsinghua University) | Foundation model training and visual generative AI | • **Text-to-Image AI Models:** Created Ranni, a system improving AI's ability to generate images from text<br>• **Large Model Training:** Developed Tongyi Wanx, Alibaba's foundation model on visual generation | Computer Vision, AI Research Frontiers |
| Chen Zonghao (Ph.D., Shanghai Jiao Tong University) | Computer vision and generative AI | • **AI for Panoramic Depth Perception:** Created AI tools for better depth estimation | Programming, AI, Image & Video Generation |
| Zhao Xin (Ph.D., University of Science & Technology of China) | Computer vision, video processing | • **GOT-10k:** A large AI benchmark for object tracking<br>• **BioDrone:** AI vision tracking for drones | Image Processing, Deep Learning |

# UPH AI Faculty Team

| | RESEARCH FOCUS | KEYWORDS | TEACHING |
|---|---|---|---|
| **Wang Zhe (Ph.D., Nanyang Technological University)** | Sustainable AI, model compression, edge AI | • **YouTube-8M:** Multimodal video classification project<br>• **Neural Network Pruning:** Created efficient model compression techniques | Courses on Deep Learning, Linear Algebra at Peking University |
| **Shijie Li (Ph.D., Bonn University)** | Embodied AI and Vision-Language Models | • **3D Visual Grounding (3DVG):** Developed SeeGround, a model improving 3D object identification in augmented reality | Programming Fundamentals, AI Introduction |
| **Hu Shiyu (Ph.D., Chinese Academy of Sciences)** | AI for psychology and vision tracking | • **AI-Based Psychological Assessment:** Developed intelligent psychological testing tools<br>• **AI Tracking for UAVs:** Created tracking systems for drones | AI, Calculus, Linear Algebra |
| **Wenjie Yang (Ph.D., Chinese Academy of Sciences)** | AI for e-commerce and computer vision | • **Livestream Product Recognition:** Built AI models for online shopping<br>• **Cross-Domain AI Representation:** Created tools to unify AI understanding across media | AI, Image Processing, Deep Learning |

# "Artificial Intelligence is the new electricity."
## — Andrew Ng

| | RESEARCH FOCUS | KEYWORDS | TEACHING |
|---|---|---|---|
| *Tian Shu (Ph.D., University of Science & Technology Beijing)* | Object detection and AI for scene text recognition | • **AI for License Plate Detection:** Developed models for better recognition under real-world conditions | C++, AI, Discrete Mathematics |
| *Sijie Ren (Ph.D. Candidate, Fudan University)* | Causal inference and medical AI application | • **AI for Medical Imaging:** Developed AI models for Alzheimer's and polyp detection<br>• **Health Prediction Models:** Built systems to analyze children's vision development | Calculus, Machine Learning, AI |
| *Xu Rui (Ph.D. Candidate, Fudan University)* | Role-playing AI agents and large language models | • **Personality in AI Agents:** Developed psychological assessment methods for AI characters<br>• **Role-Playing AI Models:** Created datasets and frameworks for AI-driven decision-making | AI, Probability & Statistics, Algorithms |