

ART SUBPA-ASA

AI Engineer | Machine Learning | Computer Vision | End-to-End AI Solutions

Tokyo, Japan Open to relocate

PROFILE

Computer vision researcher with 12+ years of experience in machine learning, computational imaging, and software engineering. Experienced in designing machine learning algorithms, developing AI-based imaging systems, and building reproducible research pipelines from data acquisition to model evaluation. Published extensively in premier computer vision venues including CVPR, ICCV, ECCV, and TPAMI, with expertise in translating challenging sensing and imaging problems into practical computational solutions.

EXPERIENCE

Project Researcher / Research Assistant

National Institute of Informatics

2014–2021, 2024–Present Tokyo, Japan

Developed machine learning and computational imaging algorithms for CNT sensors, hyperspectral imaging, and event cameras. Built end-to-end research pipelines from data acquisition to quantitative evaluation. Designed image reconstruction and optimization methods for challenging inverse imaging problems while collaborating with multidisciplinary research teams.

Research Consultant

Freelance / Independent Researcher

2021–2024 Remote

Advised academic and industrial collaborators on computer vision and machine learning projects, from algorithm design to prototype development and quantitative evaluation.

Application Engineer

The Stock Exchange of Thailand

2011–2014 Bangkok, Thailand

Developed and maintained enterprise software for Thailand's primary retail trading platform, focusing on reliability, performance optimization, and system integration.

KEY ACHIEVEMENTS

Research Excellence

Published 15+ papers in premier computer vision venues, including CVPR, ICCV, ECCV, ACCV, and TPAMI.

AI Algorithms

Developed deep learning and optimization algorithms for computational imaging, image reconstruction, and advanced sensing systems.

System Development

Built end-to-end imaging pipelines integrating sensor hardware, data acquisition, signal processing, and machine learning.

Technical Leadership

Led multidisciplinary research collaborations and mentored graduate students.

EDUCATION

Ph.D. Information Processing

Tokyo Institute of Technology

2015–2019 Tokyo, Japan

M.Eng. Computer Engineering

Chulalongkorn University

2009–2011 Bangkok, Thailand

B.Eng. Computer Engineering

Chulalongkorn University

2005–2009 Bangkok, Thailand

PUBLICATIONS

CVPR 2025 (Highlight): Active Hyperspectral Imaging Using an Event Camera

TPAMI: Reliability-Aware Restoration Framework for 4D Spectral Photoacoustic Data

ECCV 2018: Variable Ring Light Imaging

ICCV 2017: Microfacet-Based Reflectance Model for Photometric Stereo

TPAMI: Microfacet-Based Model for Photometric Stereo with General Isotropic Reflectance

Full list: [Google Scholar](#)

SKILLS

Programming

Python, C#, Java, Matlab, JavaScript

Computer Vision

Computational Imaging, Medical Imaging, Hyperspectral Imaging, Event Cameras, Computational Photography, 3D Reconstruction, Neural Rendering (NeRF/3D Gaussian Splatting)

Machine Learning

Deep Learning, CNNs, Transformers, Diffusion Models, Image Reconstruction, Generative Models

Technical Expertise

Signal Processing, Inverse Problems, Optimization, Sensor Systems, Data Acquisition, Production Software Engineering

Tools

PyTorch, OpenCV, Git, Docker

LANGUAGES

Thai
English
Japanese

