

Julian Jorge Andrade Guerreiro

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Education

Ph.D.

The University of Tokyo

Member of the Machine Perception Group (Advisor: Prof. Hideki Nakayama)

Tokyo, Japan

2023/04 – present

Master of Science

Keio University

Member of Aoki Media Sensing Lab. working on Computer Vision

Thesis: Detecting Osteoarthritis from Multimodal Hand Data (Advisor: Prof. Yoshimitsu Aoki)

Tokyo, Japan

2020/10 – 2022/03

Bachelor and Master of Science

RWTH Aachen University

Information and Communications Engineering (Bachelor) and Computer Engineering (Master)

Thesis: Optimal Orientation of Cube Faces for 360° Video Coding (Advisor: Prof. Jens Ohm)

Aachen, Germany

2016/10 – 2023/02

Work Experience

SB Intuitions

Part-Time Research Intern

Research on multimodal generation using Vision Language Models (VLM)

Tokyo, Japan

2026/02 – present

Adobe Research

Research Scientist/Engineer (Full-Time Internship)

Member of the Document Intelligence Lab

College Park, USA

2025/06 – 2025/09

University of Tokyo

Research Assistant

Joint research with CyberAgent AI Lab researching layout generation and generative models

Tokyo, Japan

2023/05 – 2025/05

LY Corporation

Full-Time Research Internship (2 months), then Part-Time Researcher

Worked on research related to likelihood calculation in diffusion and flow-based models

Tokyo, Japan

2024/08 – 2025/05

Preferred Networks

Full-Time Research Internship (2 months), then Part-Time Researcher

Member of the Machine Learning Theory team researching video prediction and world models

Tokyo, Japan

2023/08 – 2024/03

Rakuten Institute of Technology, Rakuten Group Inc.

Computer Vision Research Scientist (Full-Time Internship)

○ Conducted independent research in the field of Computer Vision (Image Harmonization)

○ Presented and published research results at a top-conference (CVPR)

Tokyo, Japan

2022/04 – 2022/12

Languages

German: Native

Portuguese: Native

English: Native-level Proficiency (TOEFL iBT: 112/120)

Japanese: Limited Working Proficiency (JLPT N1)

Publications

Complete publication list: https://scholar.google.com/citations?user=_FCHS54AAAAJ&hl=en

LayoutFlow: Flow Matching for Layout Generation

Julian Jorge Andrade Guerreiro, Naoto Inoue, Kento Masui, Mayu Otani, Hideki Nakayama

European Conference on Computer Vision (ECCV), 2024

PCT-Net: Full Resolution Image Harmonization Using Pixel-Wise Color Transformations

Julian Jorge Andrade Guerreiro, Mitsuru Nakazawa, Bjorn Stenger

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023

Detection of Osteoarthritis from Multimodal Hand Data

Julian Jorge Andrade Guerreiro, Shuntaro Saito, Katsuya Suzuki, Yoshimitsu Aoki

IEEE Engineering in Medicine and Biology (EMBC), 2022