Julian Jorge Andrade Guerreiro

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Education

Ph.D.   **Tokyo, Japan**
The University of Tokyo   *2023/04 – 2026/09*
Member of the Machine Perception Group (Advisor: Prof. Hideki Nakayama)

Master of Science   **Tokyo, Japan**
Keio University   *2020/10 – 2022/03*
Member of Aoki Media Sensing Lab. working on Computer Vision
Thesis: Detecting Osteoarthritis from Multimodal Hand Data (Advisor: Prof. Yoshimitsu Aoki)

Bachelor and Master of Science   **Aachen, Germany**
RWTH Aachen University   *2016/10 – 2023/02*
Information and Communications Engineering (Bachelor) and Computer Engineering (Master)
Thesis: Optimal Orientation of Cube Faces for 360-degree Video Coding (Advisor: Prof. Jens Ohm)

Work Experience

University of Tokyo   **Tokyo, Japan**
Research Assistant   *2023/05 – present*
Joint research with CyberAgent AI Lab researching layout generation and generative models

Adobe Research   **College Park, USA**
Research Scientist/Engineer (Full-Time Internship)   *2025/06 – 2025/09*
Member of the Document Intelligence Lab

LY Corporation   **Tokyo, Japan**
Full-Time Research Internship (2 months), then Part-Time Researcher   *2024/08 – 2025/05*
Worked on research related to likelihood calculation in diffusion and flow-based models

Preferred Networks   **Tokyo, Japan**
Full-Time Research Internship (2 months), then Part-Time Researcher   *2023/08 – 2024/03*
Member of the Machine Learning Theory team researching video prediction and world models

Rakuten Institute of Technology, Rakuten Group Inc.   **Tokyo, Japan**
Computer Vision Research Scientist (Full-Time Internship)   *2022/04 – 2022/12*
○ Conducted independent research in the field of Computer Vision (Image Harmonization)
○ Presented and published research results at a top-conference (CVPR)

Skills

Programming: Python, C/C++, PyTorch, OpenCV, Pandas, CUDA, MATLAB
Tools: Docker, Kubernetes, AWS S3, Google Cloud Platform, Confluence, Git, Unix

Languages

German: Native   **Portuguese**: Native
English: Full professional proficiency (TOEFL iBT: 112/120)
Japanese: Limited Working Proficiency (JLPT N2)

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