Apr 2022

Kenji Tojo

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♦ https://kenji-tojo.github.io/

About

I am a Ph.D. student at The University of Tokyo studying computer graphics. My research focuses on the intersection of inverse rendering and geometric modeling.

Education

Ph.D. Information Science and Technology – The University of Tokyo o Adviser: Nobuyuki Umetani	Apr 2023 – Present
 M.S. Information Science and Technology – The University of Tokyo Adviser: Nobuyuki Umetani Dean's prize for best M.S. thesis 	Apr 2021 – Mar 2023
B.S. Information Science – The University of Tokyo o Thesis Adviser: Takeo Igarashi	Apr 2017 - Mar 2021
Publications	
The Mokume Dataset and Inverse Texturing of Solid Wood Output Maria Larsson, Hodaka Yamaguchi, Ehsan Pajouheshgar, I-Chao Shen, Kenji Talars Hansson, Olof Broman, Takashi Ijiri, Ariel Shamir, Wenzel Jakob, Takeo Igar ACM Transactions on Graphics (presented at SIGGRAPH 2025)	
GreenCloud: Volumetric Gradient Filtering via Regularized Green's Function • Kenji Tojo, Nobuyuki Umetani • Symposium of Geometry Processing (SGP) 2025 – Best Paper Honorable Men	
 3D Gabor Splatting: Reconstruction of High-frequency Surface Texture using Noise Haato Watanabe, Kenji Tojo, Nobuyuki Umetani Eurographics 2025 - Short Papers 	Gabor Apr 2025
Free-form Floor Plan Design using Differentiable Voronoi Diagram o Xuanyu Wu, Kenji Tojo, Nobuyuki Umetani o Pacific Graphics 2024	Oct 2024
Fabricable 3D Wire Art • Kenji Tojo, Ariel Shamir, Bernd Bickel, Nobuyuki Umetani • SIGGRAPH 2024 Conference Proceedings	Aug 2024
Stealth Shaper: Reflectivity Optimization as Surface Stylization • Kenji Tojo, Ariel Shamir, Bernd Bickel, Nobuyuki Umetani • SIGGRAPH 2023 Conference Proceedings	Aug~2023
Recolorable Posterization of Volumetric Radiance Fields Using Visibility-We Palette Extraction • Kenji Tojo, Nobuyuki Umetani • Eurographics Symposium on Rendering (EGSR) 2022	e ighted Jul 2022

Neural Motion Compression with Frequency-adaptive Fourier Feature Network

Kenji Tojo, Nobuyuki Umetani
 Eurographics 2022 - Short Papers

Experience

Visiting Researcher – ETH Zürich, Zürich, Switzerland o Mentor: Bernd Bickel	Jun 2025 – Aug 2025
Visiting Researcher – MBZUAI, Abu Dhabi, United Arab Emirates o Mentor: Hao Li	Sep 2024 - Nov 2024
Visiting Researcher – ISTA, Klosterneuburg, Austria o Mentor: Bernd Bickel	Dec 2023 – Jan 2024
Software Engineer Intern – Morgenrot Inc., Tokyo, Japan	Mar 2023
Research Assistant – The University of Tokyo, <i>Tokyo, Japan</i> o Mentor: Takeo Igarashi	Feb 2021 – Mar 2021

Teaching

CV 802: ADVANCED 3D COMPUTER VISION - MBZUAI

Autumn, 2024

• Invited Lecturer - Topic: Differentiable Rendering

Awards

Dean's prize for outstanding Master's research – The University of Tokyo

Mar 2023

• Best Master's thesis of the year in the Creative Informatics Department

Japan Society for the Promotion of Science Research Fellow (DC1)

Apr 2023 — Mar 2026

 \circ 2,400,000 JPY / year

Coursework

Math: Calculus, Linear Algebra, Differential Equations, Statistics, Continuous Optimization, Stochastic Process, Discrete Mathematics, Mathematical Logic, etc.

CS: Computer Graphics, Physics-based Animation, Image/Video Coding, Machine Learning, User Interface, Remote Sensing, Compilers, Complexity Theory, etc.

Technical skills

Programming: C++, OpenGL, Eigen, CUDA, Python, PyTorch, pybind11, nanobind etc.

Creative: Adobe Illustrator, Adobe Premiere Pro, Blender, Unreal Engine, etc.

Test scores

TOEFL iBT: 105 (October 15, 2022)