Kenji Tojo

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 TokyoAdviser: 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 Thesis Adviser: Takeo Igarashi	Apr 2017 - Mar 2021
Publications	
The Mokume Dataset and Inverse Texturing of Solid Wood o Maria Larsson, Hodaka Yamaguchi, Ehsan Pajouheshgar, I-Chao Shen, Kenji Zars Hansson, Olof Broman, Takashi Ijiri, Ariel Shamir, Wenzel Jakob, Takeo Iga ACM Transactions on Graphics (presented at SIGGRAPH 2025)	•
3D Gabor Splatting: Reconstruction of High-frequency Surface Texture using Noise • Haato Watanabe, Kenji Tojo, Nobuyuki Umetani • Eurographics 2025 – Short Papers	g Gabor Apr 2025
Free-form Floor Plan Design using Differentiable Voronoi Diagram • Xuanyu Wu, Kenji Tojo, Nobuyuki Umetani • 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 • Computer Graphics Forum (presented at EGSR 2022)	Teighted Jul 2022
Neural Motion Compression with Frequency-adaptive Fourier Feature Netwook Kenji Tojo, Nobuyuki Umetani	vork Apr 2022

Experience

Software Engineer Intern – Morgenrot Inc., Tokyo, Japan

 \circ Eurographics 2022 - Short Papers

Mar~2023

Research Assistant – The University of Tokyo, Tokyo, Japan Feb 2021 – Mar 2021

o Mentor: Takeo Igarashi

Awards

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

Mar 2023

• Best Master's thesis of the year at 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 etc.

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

Test scores

TOEFL iBT: 105 (October 15, 2022)