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

 $\circ~2,\!400,\!000~\mathrm{JPY}$ / year

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 Thesis Adviser: Takeo Igarashi	Apr 2017 - Mar 2021
Publications	
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-Palette Extraction • Kenji Tojo, Nobuyuki Umetani • Computer Graphics Forum (presented at EGSR 2022)	Weighted Jul 2022
Neural Motion Compression with Frequency-adaptive Fourier Feature Net • Kenji Tojo, Nobuyuki Umetani • Eurographics 2022 - Short Papers	twork Apr 2022
Experience	
Software Engineer Intern – Morgenrot Inc., Tokyo, Japan	Mar 2023
Research Assistant – The University of Tokyo, <i>Tokyo</i> , <i>Japan</i> o Mentor: Takeo Igarashi	Feb 2021 - Mar 2021
Awards	
Dean's prize for outstanding Master's research − The University of Tokyo ◦ Best Master's thesis of the year at the Creative Informatics Department	Mar 2023
Japan Society for the Promotion of Science Research Fellow (DC1)	Apr 2023 — Mar 2026

Coursework

Math: Calculus, Linear Algebra, Differential Equations, Statistics, Continuous Optimization, Stochastic Processes, 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)