

Kenji Tojo

✉ knjtojo@g.ecc.u-tokyo.ac.jp <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 *Apr 2023 – Present*
 - Adviser: Nobuyuki Umetani
- M.S. Information Science and Technology** – The University of Tokyo *Apr 2021 – Mar 2023*
 - Adviser: Nobuyuki Umetani
 - Dean's prize for best M.S. thesis
- B.S. Information Science** – The University of Tokyo *Apr 2017 – Mar 2021*
 - Thesis Adviser: Takeo Igarashi

Publications

- Free-form Floor Plan Design using Differentiable Voronoi Diagram** *Oct 2024*
 - Xuanyu Wu, **Kenji Tojo**, Nobuyuki Umetani
 - *Pacific Graphics 2024*
- Fabricable 3D Wire Art** *Aug 2024*
 - **Kenji Tojo**, Ariel Shamir, Bernd Bickel, Nobuyuki Umetani
 - *SIGGRAPH 2024 Conference Proceedings*
- Stealth Shaper: Reflectivity Optimization as Surface Stylization** *Aug 2023*
 - **Kenji Tojo**, Ariel Shamir, Bernd Bickel, Nobuyuki Umetani
 - *SIGGRAPH 2023 Conference Proceedings*
- Recolorable Posterization of Volumetric Radiance Fields Using Visibility-Weighted Palette Extraction** *Jul 2022*
 - **Kenji Tojo**, Nobuyuki Umetani
 - *Computer Graphics Forum (presented at EGSR 2022)*
- Neural Motion Compression with Frequency-adaptive Fourier Feature Network** *Apr 2022*
 - **Kenji Tojo**, Nobuyuki Umetani
 - *Eurographics 2022 – Short Papers*

Experience

- Software Engineer Intern** – Morgenrot Inc., *Tokyo, Japan* *Mar 2023*
- Research Assistant** – The University of Tokyo, *Tokyo, Japan* *Feb 2021 – Mar 2021*
 - 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*
 - 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)