Kenji Tojo

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LINKS

Website

EDUCATION

Apr 2023 — Present

Ph.D. at The University of Tokyo

Tokyo, Japan

Adviser: Nobuyuki Umetani

Apr 2021 — Mar 2023

Master of Creative Informatics, The University of Tokyo

Tokyo, Japan

Adviser: Nobuyuki Umetani

Completed with Dean's prize for outstanding thesis

Apr 2017 — Mar 2021

Bachelor of Information Science, The University of Tokyo

Tokyo, Japan

Bachelor's thesis adviser: Takeo Igarashi

EXPERIENCES

Mar 2023

Software Engineer Intern - Morgenrot Inc., Japan

Tokyo, Japan

Worked on a 3D reconstruction tool.

Feb 2021 — Mar 2021

Research Assistant - The University of Tokyo

Tokyo, Japan

Adviser: Takeo Igarashi. Developed a 3D modeling and visualization tool for an interactive aerodynamics simulator.

PUBLICATIONS

Peer-Reviewed Conference & Journal Papers

1. **Kenji Tojo**, Ariel Shamir, Bernd Bickel, and Nobuyuki Umetani. Stealth Shaper: Reflectivity Optimization as Surface Stylization. *SIGGRAPH '23 Conference Proceedings.*
2. **Kenji Tojo** and Nobuyuki Umetani. Recolorable Posterization of Volumetric Radiance Fields Using Visibility-Weighted Palette Extraction. *Computer Graphics Forum* 41, 4 (July 2022), 149-160. Presented at *Eurographics Symposium on Rendering 2022.*
3. **Kenji Tojo**, Yifei Chen, and Nobuyuki Umetani. Neural Motion Compression with Frequency-adaptive Fourier Feature Network. *Eurographics 2022 - Short Papers.*

AWARDS

Mar 2023

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

- Best master's thesis of the year in the Creative Informatics Department

Apr 2023 — Mar 2026

Japan Society for the Promotion of Science Research Fellow - DC1

- 2,400,000 JPY / year

TALKS

Conference Presentations

- Recolorable Posterization of Volumetric Radiance Fields Using Visibility-Weighted Palette Extraction.
  - *Eurographics Symposium on Rendering 2022* (July 6th, 2022)
  - 20 min. (including Q&A)

- Neural Motion Compression with Frequency-adaptive Fourier Feature Network.
  - *Eurographics 2022* (April 27th, 2022)
  - 15 min.

Invited Talks (in Japan)

- Recolorable Posterization of Volumetric Radiance Fields Using Visibility-Weighted Palette Extraction.
  - *VC/VCC* (October 7th, 2022)
  - 12 min. (including Q&A)

COURSEWORK

Math: Calculus, Linear Algebra, Differentiable Equations, Statistics, Optimization, Stochastic Processes, Discrete Mathematics, 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, Blender, etc.

TEST SCORES

TOEFL iBT: 105 (October 15, 2022)