

Johanna Karras

 johannakarras |  johannakarras |  johannakarras.github.io |  jskarras@cs.washington.edu

RESEARCH INTEREST

My research interests lie at the intersection of computer vision, graphics, and machine learning. I am currently a fourth-year PhD student at the Graphics and Imaging Lab (GRAIL) at the University of Washington, with a focus on generative AI. I am co-advised by Ira Kemelmacher Shlizerman, Steve Seitz, and Brian Curless.

EDUCATION

2021 - present **University of Washington**, PhD Computer Science
2017 - 2021 **California Institute of Technology**, B.S. Computer Science

KEY SKILLS

- Proficiency in machine learning libraries TensorFlow, PyTorch, and Jax.
- Strong programming skills in Python, C++, C, Java, and MySQL

RESEARCH

Fashion-VDM: Video Diffusion Model for Virtual Try-On, *Johanna Karras, Yingwei Li, Nan Liu, Luyang Zhu, Innfarn Yoo, Andreas Lugmayr, Chris Lee, Ira Kemelmacher-Shlizerman*
SIGGRAPH Asia 2024

DreamPose: Fashion Image-to-Video Synthesis via Stable Diffusion, *Johanna Karras, Aleksander Holynski, Ting-Chun Ira Kemelmacher-Shlizerman*
ICCV 2023

Deep Neural Networks for Black Hole Imaging *Advised by He Sun, Katie Bouman*
WiCV, CVPR 2021

INTERNSHIPS

Google Research , <i>PhD Student Researcher</i>	June, 2023 - Now
Streetscope Inc. , <i>Software Engineering Intern</i>	April - September, 2021
J.P. Morgan and Chase , <i>Software Engineering Intern</i>	June - August, 2019
Microsoft , <i>Software Engineering Intern</i>	June - September, 2018

AWARDS & RECOGNITIONS

- UW Reality Lab – Amazon Fellowship, 2022
- Google CSRMP (Computer Science Research Mentorship Program), 2021
- NCWIT Collegiate Award Finalist (National Center for Women in Computing), 2020
- Caltech Amasa Bishop Travel Grant, 2020
- Caltech Summer Undergraduate Research Fellowship, 2020