Gene Chou

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EDUCATION

Cornell University   2023 -
Incoming PhD candidate in computer science
   Advisors: Noah Snavely and Bharath Hariharan

Princeton University   2018 - 2022
BSc in computer science, minor in applied mathematics
   Honors: magna cum laude, departmental GPA: 3.96 / 4.0

PUBLICATIONS

Diffusion-SDF: Conditional Generative Modeling of Signed Distance Functions
G. Chou, Y. Bahat, F. Heide   *arxiv preprint*
   Performs diffusion on neural implicit functions (SDFs) and conditionally generates 3D objects.

GenSDF: Two-Stage Learning of Generalizable Signed Distance Functions
G. Chou, I. Chugunov, F. Heide   *NeurIPS 2022 (Featured)*
   Reconstructs neural SDFs from raw input point clouds of over a hundred unseen object classes.

EXPERIENCE

Research Intern - Disney Research   2/2023 - 6/2023
Walt Disney Imagineering | Glendale, CA
   Researching scene understanding + RL for robot navigation and sim-to-real transfer.

Research Assistant - Princeton Computational Imaging Lab   3/2022 - 2/2023
Princeton University | Princeton, NJ
   Researched generalization and generation of 3D scene representations, advised by Prof. Felix Heide.

Research Assistant - Princeton Visual AI Lab   6/2021 - 12/2021
Princeton University | Princeton, NJ
   Stress-tested algorithmic fairness via synthetic data generation, advised by Prof. Olga Russakovsky.

Research Assistant - Multimedia Technology Lab   6/2020 - 8/2021
Academia Sinica | Taipei, Taiwan
   Worked on meta-learning and style transfer, advised by Prof. Hong-Yuan Mark Liao. Collaborated with industry to augment traffic data in different weather and lighting for improved monitoring.

TEACHING & REVIEWING

Teaching   2018 - 2022
TA for Algorithms and Data Structures at Princeton.
Consistently tutored for 4+ years and led volunteer organizations for tutoring high school students from underrepresented communities.

Reviewing
Reviewer for CVPR 2023, ICCV 2023
Interviewer for Princeton University undergraduate admissions