Gene Chou

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EDUCATION

Cornell University   2023 -
PhD student 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   *ICCV 2023*
  Performs diffusion on the latent space of neural SDFs to conditionally generate 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.

RESEARCH

Generative AI | **Backflip AI** | *San Francisco, CA*   6/2023 - 9/2023
  Generating 3D assets (at scale, text and image guidance, texture) at a generative AI startup.

Vision + RL | **Disney Research Imagineering** | *Glendale, CA*   2/2023 - 7/2023
  Researched large vision models + RL for human-robot interaction and sim-to-real transfer.

3D Scene Representations | **Princeton Computational Imaging Lab** | *Princeton, NJ*   3/2022 - 2/2023
  Researched generalization and generation of neural scene representations, advised by Prof. Felix Heide.

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

ML Algorithms | **Multimedia Technology Lab at Academia Sinica** | *Taipei, Taiwan*   6/2020 - 8/2021
  Researched 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.

EXPERIENCE

Teaching
TA for Algorithms and Data Structures at Princeton (2019-2022)

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

Awards
NSF Graduate Research Fellowship (2023 - 2028)