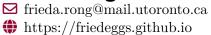
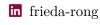
# Frieda Rong









Research Areas: Computer Graphics • Robotics • Artificial Intelligence

#### **Education**

Ph.D. Computer Science, University of Toronto
Advised by: Prof. Raquel Urtasun. Committee: Profs. Sanja Fidler & TBD.

2015 – 2020 **B.Math. Pure Mathematics & Computer Science, University of Waterloo**Triple major in Pure Mathematics, Combinatorics & Optimization, and Computer Science.

## **Employment History**

2024 – **Researcher II.** Waabi, Behaviors Team, Toronto, ON, Canada.

Research Scientist. Uber ATG Toronto, Research & Development, Simulation Team.

Demonstrated a data-driven pipeline for the photorealistic video simulation of cars inserted into urban driving scenes. Work resulted in award-winning publication (see below).

Part-time Employee. Uber ATG Toronto, Research & Development, Simulation Team. Continued internship work with data pre-processing and novel view synthesis research.

Fall 2018 Research Intern. Uber ATG Toronto, Research & Development, Simulation Team.

Implemented a hardcoded baseline for the photorealistic image simulation of cars inserted into urban driving scenes.

#### **Research Publications**

#### **Conference Proceedings**

Y. Chen\*, **F. Rong**\*, S. Duggal\*, et al., "Geosim: Realistic video simulation via geometry-aware composition for self-driving," in *Proceedings of the IEEE/CVF conference on computer vision and pattern recognition*, **Best paper candidate**, 2021, pp. 7230–7240.

#### **Patents**

F. Rong, Y. Chen, S. Duggal, *et al.*, "Photorealistic image simulation with geometry-aware composition," U.S. Patent 11 551 429, Jan. 10, 2023. URL: https://patentimages.storage.googleapis.com/b7/44/c7/b8e9be243d9704/US11551429.pdf.

### **Awards and Achievements**

NSERC CGS-D 3 Year Fellowship, University of Toronto, \$120,000 CAD overall.

2015-2020 University of Waterloo Faculty of Mathematics National Scholarship, \$25,000 CAD.