

# Frieda Rong

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**Research Areas:** Computer Graphics • Robotics • Artificial Intelligence

## Education

- 2024 – **Ph.D. Computer Science, University of Toronto**  
Advised by: Prof. Raquel Urtasun.
- 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.
- 2020 **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).*
- 2019 **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

- 1 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

- 1 **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

- 2024 **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.