#### Michael Xu



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Education	
Simon Fraser University	May 2023 — Present
PhD in Computing Science	
University of Toronto	Sep 2015 — Apr 2020
B.A.Sc. in Engineering Science, Electrical and Computer Engineering Option	
Publications	
Mishael Var Vi Chi Wang Van Var Din Dan DADC Dingia had	1 A

- Michael Xu, Yi Shi, KangKang Yin, Xue Bin Peng. PARC: Physics-based Augmentation with Reinforcement Learning for Character Controllers. In ACM SIGGRAPH 2025 Conference Proceedings (SIGGRAPH '25) (2025).
- Michael Xu\*, Changyong Song\*, David I. W. Levin, David Hyde. A Differentiable Material Point Method Framework for Shape Morphing. *IEEE Transactions on Visualization and Computer Graphics* (2025).

## Work Experience

Research Intern, Disney Research Studios	Jun 2025 — Aug 2025
• Software Developer, Rocscience Inc.	May 2020 — Jan 2023
• Software Developer Intern, Rocscience Inc.	May 2019 — Aug 2019
• Software Engineering Intern, Microsemi Corporation	Jul 2018 — Apr 2019
• Summer Research Student, UofT Dynamic Graphics Project	May 2017 — Aug 2017
• Technical Student, Toronto Hydro	May 2016 — Aug 2016

#### **Invited Talks**

**Physics-based Augmentation with Reinforcement Learning for Character Controllers**July 15, 2025

Disney Research Studios — Robotics Group

Zürich, Switzerland

Physics-based Augmentation with Reinforcement Learning for Character Controllers

July 1, 2025

Disney Research Studios — Animation Group

Zürich, Switzerland

#### Posters

 Michael Xu\*, Changyong Song\*, David I. W. Levin, David Hyde. A Differentiable Material Point Method Framework for Shape Morphing. Symposium of Computer Animation, (2024)
 Best Poster Award

• **Michael Xu**, David I. W. Levin. Deformation Gradient Control of Physically Simulated Elastoplastic Amorphous Objects. *Symposium of Computer Animation*, (2023)

# Awards

Best Poster Award - Symposium of Computer Animation 2024	2024
• 3rd at Ontario Engineering Competition - Programming	2018
• 1st at UofT Engineering Kompetition (UTEK) - Programming	2018
• 2nd at WearHacks Toronto Hackathon	2016
• 3rd at UofT Game-Making Deathmatch	2016
Vale Higher Education Scholarship	2015
UofT President's Entrance Scholarship	2015