

# Tony X. Lin

ROBOTICS · ACTIVE PERCEPTION

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## Education and Skills

### Georgia Institute of Technology

PH.D. - ELECTRICAL AND COMPUTER ENGINEERING

- Major in Robotics

Atlanta, Georgia

Aug 2018 - Exp. May 2023

### University of Virginia

M.S. IN COMPUTER ENGINEERING, B.S. IN MECHANICAL ENGINEERING

- Minor in Electrical Engineering (B.S.)

Charlottesville, Virginia

May 2012 - May 2018

### Languages and Libraries

- PYTHON, C++, C, MATLAB, LINUX
- PYTORCH, OPENCV, PCL, GTSAM, ROS

## Projects and Experience

### Georgia Tech Systems Research/FACTS Lab

GRADUATE RESEARCH ASSISTANT

- Co-advised by Dr. Fumin Zhang and Dr. Samuel Coogan
- Pursuing research related to active sensing in distributed autonomous systems.
- Facilitating a joint GT-NRL project on the use of Miniature Aerial Robotic Blimps for swarming applications
- See <https://tony-x-lin.github.io/> for publications

Georgia Institute of Technology

Aug 2018 - Exp. May 2023

### Naval Research Laboratory - Distributed Autonomous Systems Group

GRADUATE INTERN

- Interned under Don Sofge
- (2018) Pursued research related to distributed localization with Ultrawide-Band Radios
- (2019) Pursued research related to deep reinforcement learning of miniature aerial robotic blimps

Washington, D.C.

May 2018 - Aug 2018, May 2019 - Aug 2019

### Bezzo Robotics Research Group

GRADUATE RESEARCH ASSISTANT

- Advised by Dr. Nicola Bezzo
- Published research on reachability analysis based path planning and multi-robot coordination
- Provided ROS support by designing controller and trajectory generation software for UAVs and UGVs

University of Virginia

May 2016 - May 2018

### Computer Engineering TA - Autonomous Mobile Robots and Embedded Systems

GRADUATE TEACHING ASSISTANT

- AMR - Mentored students on developing ROS-based controllers, perception/planning algorithms, and sensors
- Embedded - Developed embedded code on TI-MSP430 and mentored students

University of Virginia

Jan. 2016 - Jan. 2018

### Gerling Haptics Research Group

UNDERGRADUATE HAPTICS RESEARCHER

- Worked on research project with bio-inspired afferent nerve based communication protocol
- Presented at 2015 World Haptics Conference Poster Session

University of Virginia

May 2014 - Aug. 2015

## Service

### Referee Service

COMPETITION AND PAPER REVIEWER

- Conference paper reviews in 2020: ICCA, IROS, IFAC, ICRA, ACC
- Conference paper reviewer previously: ACC, CDC, ICRA
- First Robotics Judge

### Web Service

UPDATING WEB CONTENT

- Maintain/Update profiles and content for the Georgia Tech Decision and Control Laboratory (DCL) Website

Georgia Institute of Technology

June 2020