




# CHRISTOPHER THIERAUF

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Robotician, PhD Student

## WHO AM I?

Robotics engineer currently working as a graduate research assistant while pursuing a PhD in Human-Robot Interaction from the HRI Lab at Tufts University. I'm interested in designing, building, and programming robots and systems that allow us to better explore robots in human domains.

## RESEARCH

Research in resilience in human-robot interaction, involving topics ranging from machine learning, vision processing, kinematics, cognitive architectures, and robot design.

## LANGUAGES

Comfort in Python, Java, C, C++, Bash, Some experience with x86 Assembly, R, Prolog, F#

## DEVICES

Fetch Robotics 'Fetch', Universal Robots 'UR5', Kinova 'ULeA', Willow Garage 'PR2'

## FRAMEWORKS

ROS1, ROS2, MoveIt, ROS\_Control, OpenCV, PCL, Gazebo, PyBullet

## OTHER SKILLS

Advanced CLI usage, Proficiency in mechanical design and FDM, Comfort with electrical design and debug

## EDUCATION

### Ongoing

2020 – Present  
(est. 2026)

**PhD, Human-Robot Interaction**  
Joint PhD in Computer Science and Psychology.

Tufts University

2020 – Present  
(est. 2022)

**MSc, Human-Robot Interaction**  
Joint Masters in Computer Science and Psychology.  
Research focusing on resilient robots in human domains.

Tufts University

### Completed

2016 – 2020

**BSc, Computer Science (minoring in Applied Mathematics)**  
Bachelor's in Computer Science, with emphasis on robotics.

Wentworth Institute of Technology

## RESEARCH

### Graduate Level

2021

#### Refereed Conference Paper

ICRA 2021

"Robot Development and Path Planning for Indoor Ultraviolet Light Disinfection." *Jonathan Conroy, Christopher Thierauf, Parker Rule, Evan Krause, Hugo Akitaya, Andrei Gonczi, Matias Korman, Matthias Scheutz.* Proceedings of the 2021 IEEE International Conference on Robotics and Automation.

### Undergraduate Level

2019

#### Lecture

LibrePlanet 2019

"Free Software in the 3D Printing Community." *Christopher Thierauf.* LibrePlanet 2019.

2018

#### Refereed Conference Paper

IEEE MIT URTC 2018

"Networking 3D Printers with Printfarmer." *Christopher Thierauf.* IEEE MIT Undergraduate Research Technology Conference, 2018.

2018

#### Fulfilled Grant Requirements

Northeast SARE FNE18-893

"Laser Scarecrow Prototype." *Stephen Chomyszak, Nick Stratton, Christopher Thierauf, Ken Costa.* In fulfillment of SARE FNE18-893 awarded to Elliot Farm.

## EXPERIENCE

- Summer 2021      **Graduate Robotics Co-Op**      **Thinking Robots, Inc.**  
Designed and manufactured robot add-ons to meet grant requirements for mobile disinfection system. Wrote code to accompany robot add-ons.
- May '20 – Present      **Graduate Research Assistant, Human-Robot Interaction**      **Tufts University**  
Conducted research on behalf of Matthias Scheutz in the Human-Robot Interaction Lab, Tufts University
- Fall 2019      **Software Engineering Co-Op**      **Thinking Robots, Inc.**  
Wrote code to interface between natural language goal-control system and humanoid robot.
- Spring 2019      **Undergraduate Research Assistant, Human-Robot Interaction**      **Tufts University**  
Wrote code contributing to grant for assistive robotics system interfacing natural language to a 7-DoF arm.
- Summer 2018      **Undergraduate Research Assistant, Additive Manufacturing**      **Thinking Robots, Inc.**  
Contributed to software, electrical, and mechanical design of novel 3D printing system.