Patrick Grady

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Education

Georgia Institute of Technology

Atlanta, GA

PhD Robotics

2018-cur.

Duke University

Durham, NC

BS Computer Science, Electrical and Computer Engineering

2014-2018

Publications

- Learning to Collaborate from Simulation for Robot-Assisted Dressing Alexander Clegg, Zackory Erickson, Patrick Grady, Greg Turk, Charles Kemp, C. Karen Liu, IEEE Robotics and Automation Letters (RA-L) 2019
- A Study of Energy Losses in the World's Most Fuel Efficient Vehicle Patrick Grady, Gerry Chen, Shomik Verma, Aniruddh Marellapudi, Nico Hotz, IEEE Vehicle Power and Propulsion Conference (VPPC) 2019 (oral)

Technical Experience

Facebook Reality Labs

Research Intern Summer 2020

Developing uncertainty-aware hand pose estimation for robust hand-object interaction

Healthcare Robotics Lab

Graduate Research Assistant with Dr Charlie Kemp

2018 - cur

- Grasp contact mapping and synthesis from physics simulation
- o Simulation-to-real transfer of Deep RL policies for robot-assisted dressing

Duke Electric Vehicles

President (2016-2018), Electrical Lead (2014-2016)

2014 - 2018

- o Guinness World Record: Most efficient electric vehicle. 27,482 MPGe (battery-electric)
- Guinness World Record: Most fuel-efficient vehicle. 14,573 MPG (hydrogen fuel cell)
- Led team of 15 undergraduates to design battery and fuel cell powered vehicles for the Shell Eco-Marathon
- Vehicle designer, high level architect of vehicle powertrain and aerodynamics. Justified with extensive simulation and real-world testing

NVIDIA Circuits Research Group

Research Intern Summer 2017

- High-speed signalling for for next-gen memory to GPU communications
- Benchmarked ground-referenced 25 Gbps signalling test chips

Cummer Lab

Undergraduate Research Assistant

2017 - 2018

o 4D imaging of lightning using wide-bandwidth interferometry

• Voxel-based signal processing for high-fidelity maps

Mar 2019
Feb 2019
Spring 2020
Fall 2019
Fall 2018
Spring 2016
Fall 2016
2019
2019
2019
2018
2018
2018
2017
2019
2016
2015
2015, 2017
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Media Coverage: [Clean Technica] [News and Observer] [Killer Innovations] [Duke Chronicle]

FAA Private Pilot: Glider