

# Gopika Ajaykumar

The Johns Hopkins University  
Department of Computer Science  
3400 N Charles St, Malone Hall 239  
Baltimore, MD 21218-2625

Email: [gopika@cs.jhu.edu](mailto:gopika@cs.jhu.edu)

Website: <https://www.cs.jhu.edu/~gopika>

## Education

- 2018 - present    PhD in Computer Science  
The Johns Hopkins University  
Advisor: Chien-Ming Huang
- 2015 - 2018    BS in Electrical and Computer Engineering  
The University of Texas at Austin

## Honors & Awards

- 2019    Inaugural Engineering/Nursing Joint Fellowship, *The Johns Hopkins University*
- 2018    Howard and Jacqueline Chertkof Endowed Fellowship, *The Johns Hopkins University*
- 2018    National Science Foundation Graduate Research Fellowship
- 2018    Graduating Honors, *The University of Texas at Austin*
- 2018    Roberto Rocca Scholarship, *Tenaris*
- 2017    Braden Communication Scholarship, *The University of Texas at Austin*
- 2015 - 2017    University Honors, *The University of Texas at Austin*

## Research Experience

- 2018 - present    Graduate Researcher, **Intuitive Computing Lab**  
*The Johns Hopkins University*
- 2017 - 2018    Undergraduate Research Assistant, **Nuclear and Applied Robotics Group**  
*The University of Texas at Austin*
- 2016    Undergraduate Researcher, **Rockwell Automation Laboratory**  
*Texas A&M University*

## Publications

### PEER-REVIEWED CONFERENCE FULL PAPERS

- 2020    J. Han\*, G. Ajaykumar\*, Z. Li, and C.-M. Huang.  
“Structuring Human-Robot Interactions via Interaction Conventions”

In *Proceedings of the 29th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN'20)* \*equal contribution

2020

Y. Wang, **G. Ajaykumar**, and C.-M. Huang.  
“See What I See: Enabling User-Centric Robotic Assistance Using First-Person Demonstrations”  
In *Proceedings of the 2020 ACM/IEEE International Conference on Human-Robot Interaction (HRI'20)*  
Acceptance Rate: 24%

#### PEER-REVIEWED CONFERENCE SHORT PAPERS

2020

**G. Ajaykumar** and C.-M. Huang.  
“User Needs and Design Opportunities in End-User Robot Programming”  
*2020 HRI Late-Breaking Report*

## Teaching Experience

Fall 2019

Teaching Assistant, **EN.601.490/690 Introduction to Human-Computer Interaction**  
Department of Computer Science, The Johns Hopkins University

## Service

#### CONFERENCE PAPER REFEREE

2021

International Conference on Human-Robot Interaction (HRI)

2020

International Symposium on Robot and Human Interactive Communication (RO-MAN)

2019

International Conference on Human-Robot Interaction (HRI)

#### JOURNAL ARTICLE REFEREE

ACM Transactions on Human-Robot Interaction

#### OUTREACH

2019

Girl Scouts Robotics Workshop Speaker, *Designing Robots That Help People*  
Maryland Science Center, Baltimore, MD