

# Hyunjin Cho

PHD STUDENT · COMPUTER SCIENCE

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## Education

### University of Iowa

PHD COMPUTER SCIENCE

- Advisor: Dr. Rahul Singh

Iowa City, IA

2024 - present

### University of Iowa

MCS MASTER OF COMPUTER SCIENCE

- Human Brain Research Lab Advisor: Dr. Jeremy Greenlee
- Matthew Hoffman Lab Advisor: Dr. Matthew Hoffman
- Academic Advisor: Dr. Kasturi Varadarajan

Iowa City, IA

2022 - 2025

### University of Utah

BS COMPUTER SCIENCE

- Minors in Mathematics
- Data Track

Salt Lake City, UT

2012 - 2017

## Professional Experience

2021-2022 **Co-founder & CTO – Underwater Image Processing Company**, DiveFlash

2020 **Java Software Developer – Freelancer**, ICanManagement

2020 **System Integration Coordinator – Freelancer**, Xandar Kardian

2018-2019 **Assistant Research Engineer – Developed Battle Stimulator for the South Korean Navy**, EnDCS

2017-2018 **Corporal – Army Communication Systems Operator**, Republic of Korea Army

## Publications

### PUBLISHED

Eric Vallin, Brian Mostaert, Emma Thayer, **Hyunjin Cho**, Matthew Hoffman, Martin Cassell, Douglas Van Daele . 2025. FOXP2 expression in the rodent, rhesus monkey, and human brainstem. Journal of Speech, Language, and Hearing Research

### PRE-PRINT

**Hyunjin Cho**, Farhad Tabasi, Jeremy Greenlee, Rahul Singh. 2025. GVPT: A software for guided visual pitch tracking. arXiv. <https://arxiv.org/abs/2505.00750>

### SUBMITTED

**Hyunjin Cho**, Rahul Singh. Organoid Segmentation Using Phase Congruency and Persistent Homology. ISVC 2025

### IN WRITING

**Hyunjin Cho**, Farhad Tabasi, Jeremy Greenlee, Rahul Singh. APT – The Auditory Pitch Tracking Application

## Posters

Farhad Tabasi, Roozbeh Behroozmand, **Hyunjin Cho**, Christopher K. Kovach, Christopher I. Petkov, Matthew A. Howard III, and Jeremy D. Greenlee. 2024. Defining the Human Neural Network for Vocal Production and Control. 10th Annual BRAIN Initiative Conference

## Teaching Experience

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Spring 2025 **CS2230 – Data Structures**, Teaching Assistant, University of Iowa  
Fall 2024 **CS4980 – Adversarial Machine Learning**, Teaching Assistant, University of Iowa  
Spring 2017 **CS2100 – Discrete Structures**, Teaching Assistant, University of Utah  
Fall 2016 **CS1410 – Intro. to Object Oriented Programming**, Teaching Assistant, University of Utah  
Spring 2016 **CS1030 – Foundations of Computer Science**, Teaching Assistant, University of Utah

## Research Experience

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### University of Iowa – Department of Computer Science

*Iowa City, IA*

ADVISOR: DR. RAHUL SINGH

*2024 - Present*

- Cancer organoid segmentation from Bright-field Microscopy image

### University of Iowa – Department of Neurosurgery

*Iowa City, IA*

ADVISOR: DR. JEREMY GREENLEE

*2023- Present*

- Software: GVPT - Guided Voice Pitch Tracking software
- Software: APT - Auditory Pitch Tracking application

### University of Iowa – Department of Otolaryngology

*Iowa City, IA*

ADVISOR: DR. MATTHEW HOFFMAN

*2022 - Present*

- Software: UIowa Remote Voice - mobile application for remote voice study in rural Iowa area.

## Miscellaneous

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### AWARDS

2022 **Intelligent Systems in Geoscience Award**, 2022 UIowa Hack-a-thon

### OUTREACH

2023-2024 **University of Iowa**, iPeer Mentorship Program Mentor

2023 **Iowa State Fair**, Graduate Research Ambassador

### OTHER PROFESSIONAL EXPERIENCE

2021 **PADI**, Scuba Divemaster