Hyunjin Cho

PHD STUDENT · COMPUTER SCIENCE

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Education

University of Iowa — *Iowa City, IA*
PHD COMPUTER SCIENCE — *2024 - present*
- Advisor: Dr. Rahul Singh

University of Iowa — *Iowa City, IA*
MCS MASTER OF COMPUTER SCIENCE — *2022 - 2024*
- Human Brain Research Lab Advisor: Dr. Jeremy Greenlee
- Matthew Hoffman Lab Advisor: Dr. Matthew Hoffman
- Academic Advisor: Dr. Kasturi Varadarajan

University of Utah — *Salt Lake City, UT*
BS COMPUTER SCIENCE — *2012 - 2017*
- Minors in Mathematics
- Data Track

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

ACCEPTED

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

IN PREP

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

Hyunjin Cho, Rahul Singh. Segmentation of organoids using persistence homology

Teaching Experience

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

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

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