## Cheol Jun Cho

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University of California, Berkeley Ph.D. in Computer Science	Aug 2021 – Present
• Advisors: Gopala K. Anumanchipalli and Jack L. Galllant	
Seoul National University	Mar 2014 – Aug 2020
B.S. in Computer Science and Engineering	· ·
$\circ$ Summa Cum Laude & Ranked 1st in College of Engineering	
Research Experience	
Berkeley Speech Group at UC Berkeley Graduate Student Researcher	Berkeley, CA, USA Aug 2021 – Present
Gallant Lab at UC Berkeley Graduate Student Researcher	Berkeley, CA, USA Aug 2021 – Present
Berkeley AI Research Lab Graduate Student Researcher	Berkeley, CA, USA Aug 2021 – Present
Chang Lab at UCSF Graduate Student Researcher	San Francisco, CA, USA Aug 2023 – Dec 2023
Computational Clinical Science Lab at SNU Research Assistant	Seoul, Korea Sep 2020 – Jul 2021
Center for Neuroscience, Brain Science Institute at KIST Research Assistant	Seoul, Korea Jul 2020 – Dec 2020
KAIST Interaction Lab Undergaduate Research Assistant	Daejeon, Korea Jun 2019 – Aug 2020
Computing and Memory Architecture Lab at SNU Undergraduate Research Assistant	Seoul, Korea Dec 2018 – Jun 2019
OURNAL PUBLICATIONS	
A Streaming Brain-to-Voice Neuroprosthesis to Restore Naturalistic Communication Cho, C.J.*, Littlejohn, K. T.*, Liu J. R., Silva A. B., Yu B., Anderson V. R., Kurtz-miott C. Brosler S., Kashyap A. P., Hallinan I. P., Shah A., Tu-Chan A., Gangluy K., Moses D. A., Chang F.*, Anumanchipalli G. K*+. (*, *: equal contribution)	
Coding Speech through Vocal Tract Kinematics <u>Cho, C.J.</u> , Wu, P., Parbhune, T. S., Agarwal, D., and Anumanchipalli, G. K.	$\begin{array}{c} 2025 \\ \text{IEEE JSTSP} \end{array}$
A Bird's Eye View of Brain Activity in Socially Interacting Mice through Mobile Ecomputing (MEC)	dge 2020 Science Advances
Computing (MEC)  Kim, J.*, Kim, C., Han, H., Cho, C.J., Yeom, W., Lee, S.Q*, Choi, J.H.*  CONFERENCE Publications  Sylber: Syllabic Embedding Representation of Speech from Raw Audio	Science Advances
Cho, C.J., Lee, N., Gupta, A., Agarwal, D., Chen, E., Black, A. W., Anumanchipalli, G. K.	ICLR
Stutter-Solver: End-to-end Multi-lingual Dysfluency Detection Zhou, X., Cho, C.J., Sharma, A., Morin, B., Baquirin, D., Vonk, J., Ezzes, Z., Miller, Z., Tee, E Gorno-Tempini, M.L., Lian, J., Anumanchipalli G. K.	2024 S.L., SLT

Fast, High-Quality and Parameter-Efficient Articulatory Synthesis using Differentiable DSP Liu, Y., Yu, B., Lin, D., Wu, P., Cho, C.J., Anumanchipalli G. K.	2024 SLT
SD-HuBERT: Sentence-Level Self-Distillation Induces Syllabic Organization in HuBERT Cho, C.J., Mohamed, A., Li, S. W., Black, A. W., and Anumanchipalli, G. K.	2024 ICASSP
Self-Supervised Models of Speech Infer Universal Articulatory Kinematics <b>Cho, C.J.</b> , Mohamed, A., Black, A. W., and Anumanchipalli, G. K.	2024 ICASSP
Unconstrained Dysfluency Modeling for Dysfluent Speech Transcription and Detection Lian, J., Feng, C., Farooqi, N., Li, S., Kashyap, A., <u>Cho, C.J.</u> , Wu, P., Netzorg, R., Li, T., and Anumanchipalli, G. K.	2023 ASRU
Neural Latent Aligner: Cross-trial Alignment for Learning Representations of Complex, Naturalistic Neural Data Cho, C.J., Chang, E.F., and Anumanchipalli, G.K.	2023 ICML
A variational autoencoder provides novel, data-driven features that explain functional brain representations in a naturalistic navigation task  Cho, C.J., Zhang, T., and Gallant, J. L.	2023 VSS
Evidence of Vocal Tract Articulation in Self-Supervised Learning of Speech. <b>Cho, C.J.</b> , Wu, P., Mohamed, A. and Anumanchipalli, G.K.	2023 ICASSP
Speaker-Independent Acoustic-to-Articulatory Speech Inversion Wu, P., Chen, L., <u>Cho, C.J.</u> , Watanabe, S., Goldstein., L., Black, A., Anumanchipalli, G.K.	2023 ICASSP
Awards	
Nominated for 2024 BCI Award by BCI Award Foundation	Oct 2024
Meta-BAIR Commons Program (Year 5)	Sep $2023$
Meta-BAIR Commons Program (Year 4)	Sep $2022$
Kwanjeong Study Abroad Scholarship (funding for PhD program up to 5 years)	Jul 2021
President's Award for 1st ranked graduation at SNU College of Engineering	$\mathrm{Aug}\ 2020$
Best research award from 2019 Brain-Mind-Behavior Research Presentation at SNU $$	Dec 2019
1st place of International Capstone Design Fair 2019 (Korea, China)	Nov 2019
2nd place of SNU Creative Design Fair of SNU College of Engineering	Sep $2019$
SNU's Tomorrow's Engineers Membership (honor society of college of engineering)	May 2016
Korea National Scholarship (fully funded) 2016 Spring,	2018 Fall-2019 Fall
Army Commendation Medal (ARCOM)	Jun 2018
Certificate of Appreciation (CA) from US 8th Army	Jun 2018
SNU Merit Scholarship (fully funded)	2015 Spring,Fall
SNU Merit Scholarship (half funded)	2014 Fall
Invited Talks	
Articulation and Syllables: Natural Coding Principles of Speech Representation Arising from Self-Supervised Learning Research seminar at ChangeLing Lab at CMU	Jan 28 2025
Emergent Phonological Structures in Self-Supervised Learning of Speech Lightning talk at BayLI (Bay area Language processing Interest group)	Jan 28 2025
A streaming silent-speech neuroprosthesis for restoring naturalistic communication BCI Award 2024	Sep 9 2024
Coding Speech through Vocal Tract Kinematics	Sep 29 2024

## TEACHING EXPERIENCE

## EE 225D. Audio Signal Processing in Humans and Machines

 $Graduate\ Student\ Instructor$ 

 $UC\ Berkeley\ EECS$ Aug 2024 – Dec 2024

- o Designed and graded assignments
- $\circ\,$  Mentored students for final research projects
- $\circ\,$  Hosted and gave guest lectures

## OTHER SERVICES

Military Service Sep 2016 - Jun 2018

- o Korean Augmentation to the United States Army (KATUSA)
- $\circ\,$  Received CA from US 8th Army and ARCOM
- $\circ\,$  Completed service as sergeant