CHE YEOL (JAYEOL) CHUN

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EDUCATION

Brandeis University — Waltham, MA
Ph.D. Computer Science — May 2023
Michtom Fellowship

Emory University — Atlanta, GA
B.S. Mathematics and Computer Science & Physics, *summa cum laude* — May 2018
Emory Merit Scholarship | Sigma Pi Sigma Honor Society | 100 Senior Honorary Class of 2018

TECHNICAL STRENGTHS

Programming Languages	Python, Java, C/C++, MATLAB, R, JavaScript
Tools & Frameworks	Tensorflow, Stanford CoreNLP, Scikit-Learn, OpenCV, Docker, Git

RESEARCH EXPERIENCE

Emory NLP Research Group, Emory University — Atlanta, GA
Undergraduate Researcher — Jun 2016 - Present

· Compiled three dependency treebanks in Korean (publication accepted, *LREC'18*)
· Augment dependency graphs converted from OntoNotes phrase structure trees with PropBank labels

Weissman Evolutionary Theory Research Group, Emory University — Atlanta, GA
Student Research Project Leader — Aug 2015 - Present

· Implemented Python APIs to simulate and analyze backward evolutionary trees of Kingman and Bolthausen-Sznitman coalescent models
· Made meaningful discovery of minimal set of tree features that help SVM identify the coalescent model that generated an evolutionary tree

PROFESSIONAL EXPERIENCE

CAIDE Systems — Lowell, MA
Intern, Deep Learning Researcher — May 2017 - Aug 2017

· Wrote data processing script that leverages multi-processing to convert raw brain CT DICOM files annotated by doctors into deep learning-ready data using OpenCV
· Proposed an integrated framework of the A.I. software where the trained classifier's segmentation output guides GAN's generator to conditionally produce a patch on the most relevant area of the image and output synthetic CT data realistic enough to deceive GAN's discriminator

PUBLICATIONS

Building Universal Dependency Treebanks in Korean — Miyazaki, Japan
Chun, Jayeol; Han, Na-Rae; Hwang, Jena D.; Choi, Jinho D. — May 2018

· In *Proceedings of the 11th International Conference on Language Resources and Evaluation, of LREC'18*

Dependency Analysis of Abstract Universal Structures in Korean and English — Atlanta, GA
Chun, Jayeol — Apr 2018

· Honors thesis in the Department of Mathematics and Computer Science at Emory University