

CHE YEOL (JAYEOL) CHUN

415 South St. MS 018, Waltham, MA 02454

EDUCATION

Brandeis University Ph.D. Computer Science Michtom Fellowship	Waltham, MA May 2024
Emory University B.S. Mathematics and Computer Science & Physics, <i>summa cum laude</i> Emory Merit Scholarship Sigma Pi Sigma Honor Society 100 Senior Honorary Class of 2018	Atlanta, GA May 2018

TECHNICAL STRENGTHS

Programming Languages	Python, Java, C/C++, MATLAB, R, JavaScript
Tools & Frameworks	Tensorflow, MxNet, CoreNLP, NLP4J, Scikit-Learn, Docker, Git

RESEARCH EXPERIENCE

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| Brandeis University
<i>Research Assistant</i> | Atlanta, GA
Aug 2018 - Present |
| · Focuses on improving performance of AMR parsing and on down-stream applications using AMR graphs | |
| Emory NLP Research Group, Emory University
<i>Undergraduate Researcher</i> | Atlanta, GA
Jun 2016 - May 2018 |
| · Compiled three dependency treebanks in Korean (<i>LREC'18</i>) | |
| Weissman Evolutionary Theory Research Group, Emory University
<i>Undergraduate Researcher</i> | Atlanta, GA
Aug 2015 - May 2018 |
| · Analyzed tree properties of Kingman and Bolthausen-Sznitman coalescent models | |
| Astro-Particle Physics Research Group, Georgia Institute of Technology
<i>Student Research Project Leader</i> | Atlanta, GA
May 2015 - Aug 2015 |
| · Assisted in developing C++ data acquisition/analysis program that measures the photon detection efficiency of detectors used in telescopes | |

PROFESSIONAL EXPERIENCE

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| DEARGEN Inc.
<i>Intern, Data Scientist</i> | Daejeon, South Korea
May 2018 - Aug 2018 |
| · Implemented WGAN-GP variant to produce synthetic gene expression data to augment TCGA | |
| CAIDE Systems
<i>Intern, Deep Learning Researcher</i> | Lowell, MA
May 2017 - Aug 2017 |
| · Implemented BEGAN variant to produce synthetic CT data to augment limited dataset | |

PUBLICATIONS

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

RELEVANT COURSES

Computer Science

Natural Language Processing
 Artificial Intelligence
 Data Structures and Algorithms
 Systems Programming
 Theory of Computing
 Discrete Structures
 Computer Organization & Assembly Programming
 Database Systems

Math & Physics

Probability and Statistics I & II
 Ordinary & Partial Differential Equations
 Math Methods for Scientists and Engineers
 Calculus & Linear Algebra
 Numerical Analysis
 Digital Electronics
 Computational Modeling
 Classical Mechanics

LEADERSHIP AND COMMUNITY ENGAGEMENT

Emory Data Science Club, Emory University

Senior Advisor

Atlanta, GA

Aug 2016 - Present

- Created and coordinated new program 'Emory Data 501' bench-marked from Data Science for Social Good (DSSG) aiming to provide platform for students to utilize technical skills to support non-profit organizations and execute campus-wide initiatives
- Initiated partnerships with Office of Residence Life at Emory and CPACS as part of Emory Data 501
- Participated in 'Python for Data Science Workshop' as technical assistant

Korean Scientists and Engineers Association, Emory University

Co-founder & Co-president

Atlanta, GA

Jan 2016 - May 2017

- Established national organization's chapter chartered by Emory to endorse STEM research and professional networking
- Director of 'EmoryKDev', a subsidiary group of aspiring software engineers and data scientists, having initiated projects ranging from Django-based web-development for peer student organization to replicating auto-swiper bot in Tinder using convolutional neural network
- Gave a talk 'Intro to Tech' at a peer student-led business organization on seeking employment opportunities in tech industry

Office of Residence Life, Emory University

Residential Advisor

Atlanta, GA

Aug 2016 - May 2017

- Served as peer mentor on issues ranging from roommate conflicts and identity crises to career counseling and research involvement
- Planned and facilitated programs with special emphasis on student success and social justice: the role of Asian community in Black Lives Matter movement, meditation sessions and big data as a main driving force behind social justice movements

TEACHING EXPERIENCE

Department of Computer Science, Brandeis University

TA, COSI-140: Natural Language Annotation for Machine Learning

Waltham, MA

Spring 2019

Department of Computer Science, Brandeis University
TA, COSI-134: Statistical Approaches to Natural Language Processing

Waltham, MA
2018 - 2019

Institute of Liberal Arts, Emory University
Undergraduate Instructor, IDS-490R: Supervised Reading and Study: Ethics/Epigenetics

Atlanta, GA
Fall 2016

- One of three undergraduate instructors in charge of coordinating one-credit discussion-based side-car course on the intersection of science and religion

Department of Mathematics and Computer Science, Emory University
TA, CS-170: Introduction to Computer Science

Atlanta, GA
Spring 2016 - Fall 2016

MILITARY EXPERIENCE

Faculty Board, Republic of Korea Air Force Academy
English Communication Teaching Assistant

Cheong-Ju, South Korea
Jun 2011 - Jun 2013

- Prepared class materials and guided debates in English communications class for cadets
- Presided over the squadron as the leader airman of Faculty Board, in charge of all administrative as well as military affairs for over a month
- Taught an introductory English communication class for airmen on campus
- Designed and operated English speaking class at local elementary school
- Honorably discharged as staff sergeant

EXTRA-CIRRICULAR

Emory Mascot Lord Dooley's Personal Guard (2016 - 2017)

Pledge Trainer Assistant, Alpha Phi Omega at Emory University (2015 - 2016)

Academic Fellow, Emory University. Mentor for incoming international freshmen (2015 - 2016)

Financial Head, Emory Astronomy Club (2015 - 2016)

Ad-Hoc Center for Diversity and Inclusion Advisory Council, Emory University (2015)

Chinese Calligraphy Club, Emory University (2014)

Seoul City 'One Less Nuclear Plant' Online Ambassador (2013 - 2014)

'Eco-Friendly Green Movement' Online Ambassador (2013 - 2014)

Habitat ReStore Volunteer, Habitat for Humanity Greater Vancouver, CA (2013)

Volunteer Photographer, FUN (Friends Uniting for Nature) Society, Vancouver, CA (2013)

Volunteer Photographer, Places-des-Arts, Vancouver, CA (2013)

ADDITIONAL SKILLS AND INTERESTS

Languages Korean (Native), English (Fluent)

Fine Arts Photography, Acoustic Guitar, Vector Graphics Design

Interests Basketball, Meditation, Reading, Soccer