DONGJIN CHOI

www.jinchoi.xyz ◇ jin.choi@gatech.edu ◇ +1 (404) 242-6709

CODA, 12th floor

756 W Peachtree St NW, Atlanta, GA 30308, USA

RESEARCH INTEREST

Natural Language Processing, Knowledge Graph Mining, Interactive Machine Learning

EDUCATION

Georgia Institute of Technology, Atlanta, GA   Aug 2018 - Present
Ph.D. in Computational Science and Engineering
Advisor: Prof. Haesun Park

Seoul National University, Seoul, Korea   Mar 2011 - Feb 2018
B.S. in Electrical and Computer Engineering
Minor in Computer Science & Engineering

PUBLICATIONS

· Hannah Kim, **Dongjin Choi**, Barry Drake, Alex Endert, and Haesun Park, *TopicSifter: Interactive Search Space Reduction Through Targeted Topic Modeling*, IEEE VIS, 2019.

· **Dongjin Choi**, Jun-gi Jang, and U Kang, *S3CMTF: Fast, Accurate, and Scalable Method for Incomplete Coupled Matrix-Tensor Factorization*, PLOS ONE, 2019.

· **Dongjin Choi**, and Lee Sael, *SNeCT: Scalable Network Constrained Tucker Decomposition for Multi-Platform Data Profiling*, IEEE TCBB, 2019.

· Jun-gi Jang, **Dongjin Choi**, and U Kang, *Fast and Memory Efficient Method for Time Ranged Singular Value Decomposition*, 27th ACM International Conference on Information and Knowledge Management (CIKM) 2018, Turin, Italy.

· Jungwoo Lee, **Dongjin Choi**, and Lee Sael, *CTD: Fast, Accurate, and Interpretable Method for Static and Dynamic Tensor Decompositions*, PLOS ONE, 2018.

· Woojung Jin, **Dongjin Choi**, Youngjin Kim, and U Kang, *Activity Prediction from Sensor Data using Convolutional Neural Networks and an Efficient Compression Method* , KIISE journal, 2018.

RESEARCH EXPERIENCE

Graduate Research Assistant   Aug 2018 - Present
Advisor: Professor Haesun Park   *Georgia Institute of Technology, Atlanta, GA*

· Conduct research on knowledge graph mining, targeted topic modeling, and interactive visualization.

Undergraduate Research Assistant   Aug 2016 - Jan 2018
Research Intern (Advisor: Professor U Kang, Lee Sael)   *Seoul National University*

· Contributed to scalable and interpretable machine learning researches.

Undergraduate Research Assistant   Dec 2015 - Feb 2016
Research Intern (Advisor: Professor Kyuseok Shim)   *Seoul National University*

· Implemented scalable graph algorithms.

INDUSTRY EXPERIENCE

Machine Learning Advisor   Jun 2019 - Present
Quantitative Research   *Intelliquant*

· Advised machine-learning model development for factor investing portfolio
· Designed a decision tree based short-term multi factor models
· Develop a rule optimization model for short-term stock trading strategies

Data Science Intern   Apr 2018 - Jul 2018
Research Intern (Mentor: Jaegul Choi)   *NAVER Corp.*

· Proposed an LSTM-based search model.

AWARDS AND HONORS

· **Winner**, Wells Fargo Campus Analytics Challenge, *Wells Fargo*   Dec 2019
· **Honorable Mention**, Humantech Paper Award, *Samsung*   Feb 2018
· **Bronze Prize**, Humantech Paper Award, top 6 in the CS division, *Samsung*   Feb 2017
· **National Science & Technology Scholarship**, top 0.7% in Korea, KOSAF   2011 - 2016
· **Kwon Oh-Hyun Alumni Scholarship**, additional 2,500$/semester, *Samsung*   2015 - 2016

TEACHING

Graduate Teaching Assistant   Spring 2020
Numerical Linear Algebra(CSE/MATH 6643)   *Georgia Institute of Technology*

· Tasks: grading, holding office hours, lecturing, proctoring as the main TA.
· Instructor: Haesun Park

Graduate Teaching Assistant   Fall 2019
Numerical Analysis I (CX/MATH 4640)   *Georgia Institute of Technology*

· Tasks: grading, holding office hours, lecturing, proctoring as the main TA.
· Instructor: Haesun Park

SKILLS

Programming Languages	C++, MATLAB, Python, Javascript, HTML (**Advanced**)
	Java, Perl, R, SQL (**Intermediate**)
Machine Learning / Linear Algebra	Tensorflow, Keras, scikit-learn
	Tensor Toolbox, Armadillo, JAMA
Data Visualization	D3.js, Matplotlib, ggplot