

DONGJIN CHOI

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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