

YJ Choe

Yo Joong Choe, 최요중

PhD Student at Carnegie Mellon University
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EDUCATION

CARNEGIE MELLON UNIVERSITY | PHD IN STATISTICS AND MACHINE LEARNING

August 2015 – May 2020 (Expected) | Pittsburgh, PA, USA

CARNEGIE MELLON UNIVERSITY | MS IN MACHINE LEARNING

August 2015 – May 2017 (Expected) | Pittsburgh, PA, USA

UNIVERSITY OF CHICAGO | BS WITH HONORS IN MATHEMATICS AND COMPUTER SCIENCE

September 2011 – June 2015 | Chicago, IL, USA

Honors: Phi Beta Kappa (Top 5% of Class), Dean's List

RESEARCH

MULTIMODAL CORRELATION ANALYSIS IN BRAIN NETWORKS | 2016

Advanced data analysis project | Advised by Aarti Singh, Timothy Verstynen, and Sivaraman Balakrishnan

[pdf] High-Dimensional Statistics • Statistical Inference • Unsupervised Learning • Neuroscience

DIVERSE DICTIONARY LEARNING VIA DETERMINANTAL POINT PROCESS | 2016

ICML 2016 workshop poster | Joint work with Maruan Al-Shedivat and Neil Spencer

[workshop] Generative Modeling • Unsupervised Learning • Approximate Inference

STATISTICAL ANALYSIS OF NEURAL NETWORKS | 2016

Literature review

[pdf] Statistical Theory • Deep Learning

DEEP LEARNING AND SOCIOECONOMIC INFERENCE USING GOOGLE STREETVIEW IMAGES | 2015

Advised by James Evans | Joint work with Nathaniel Sauder, Zhongtian Dai, Rafael Turner, and Vrushank Vora

[blog] Deep Learning • Image Processing • Computational Social Science

SPARSE ADDITIVE MODELS WITH SHAPE CONSTRAINTS | 2014

Advised by John Lafferty | Joint work with Sabyasachi Chatterjee and Min Xu

[pdf] [slides] [code] High-Dimensional Statistics • Nonparametric Statistics • Convex Optimization

LANGUAGES

PROGRAMMING

Python • Matlab • R • SQL

C • Java • Apache Spark • Amazon Web Services (EC2)

Linux • Shell Scripting • JavaScript • Elm • Racket

SPOKEN & WRITTEN

English • 한국어

SELECTED COURSEWORK

CARNEGIE MELLON UNIVERSITY

Topics in Deep Learning

Statistical Machine Learning

Advanced Intro to Machine Learning

Advanced Statistical Theory

UNIVERSITY OF CHICAGO

Machine Learning and Large-Scale Data Analysis

Nonparametric Inference

High-Dimensional Statistics

Honors Real Analysis I-II-III

TEACHING ASSISTANTSHIPS

CARNEGIE MELLON UNIVERSITY

Statistics and Machine Learning II

Intro to Probability Modeling

UNIVERSITY OF CHICAGO

Machine Learning and Large-Scale Data Analysis

Foundations of Computational Data Analysis