

Kwangmin Kim

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EDUCATION

Columbia University in the City of New York/ Mailman School of Public Health Master of Science, Biostatistics (<i>the Chair's Award for Outstanding Master's Student</i>)	New York, NY May 2019
Baruch College/CUNY, Weissman School of Liberal Arts Bachelor of Arts and Sciences, Mathematics	New York, NY Jun 2017
Kangwon National University (KNU) Bachelor of Science, Biochemistry (<i>Full Merit Scholarship: 2010-2011, Graduated Summa Cum Laude</i>)	Kangwon Province, South Korea Feb 2012

EXPERIENCE

Columbia University Medical Center, The Taub Institute, The Sergievsky Center <i>Research Assistant on Alzheimer's Disease (AD) and the Aging Brain</i>	New York, NY Dec 2018 – Present
<ul style="list-style-type: none">Researched for a comparative study of dimension reduction methods to select out the best method and classifier for metabolomics using machine learning and R. Gave a poster presentation for a graduation practicum. Awarded the Chair's Award out of about 100 candidates with \$1,000 stipend by the Biostatistics Awards Committee at Columbia UniversityConducted data cleaning, quality control, missing value analyses, exploratory analyses and contributed on a project by discovering an important covariate. Conducted variable extraction (or dimension reduction) to identify a composite score of the metabolites that maximize covariance of the AD phenotypes using RResearch for metabolites selection (or variable selection) to identify a set of metabolites that are significantly associated with the AD phenotypes. Conducted multivariate regression analyses, GMMAT, elastic net, stepwise regression, and random forests using R. The estimates of the selected metabolites were retested using bootstrapping and permutation testsResearch and conduct Genome Wide Association Study (GWAS) of genetic influences on the selected circulating metabolic traits that are associated with AD phenotypes using Linux	
<i>Teaching Assistant</i>	Sep 2018 – Dec 2018
<ul style="list-style-type: none">Managed education for 100+ students through in-depth tutoring advanced probability course. Went above and beyond by proactively assisting professors and students by generating solutions for each weekly assignment together with other teaching assistants and monitoring assessments	
The City University of New York (CUNY) <i>Researcher, The Metropolitan New York Section of the Mathematical Association of America</i>	New York, NY Jan 2015 – Jun 2015
<ul style="list-style-type: none">Researched for developing a method to remove pollutants from water with tea leaves based on research into mechanistic model of the adsorption process of heavy ions, presented findings in detail at New York City College of Technology and Manhattan College	
KNU Molecular Biology Lab <i>Researcher</i>	Kangwon Province, South Korea Sep 2010 – Feb 2012
<ul style="list-style-type: none">Investigated effects of Phellinus linteus toward Formation of Lymphatic Vessel Induced by Allergic Reaction through protein quantitative analysis using cell culture; presenting research findings to 200+ students and 40+ professors. Awarded \$5,000 stipend by the affiliated biotech company	
Military Service <i>Military Intelligence & Strategy Admin, Squad Commander as a Sergeant</i>	Mar 2008 – Feb 2010
<ul style="list-style-type: none">Worked on Military Strategies Education/ Administration, took charge of administrative tasks managing planning documents for training programs, and led 17 soldiers in a team as squad commander	

AWARD & HONORS

- Chair's Award for Outstanding Master's Student in Columbia University: 2019
- Academic excellent citation and Graduated from College of Natural Science in KNU with honors: 2012
- Superb Citation by divisional commander in leadership competition at the division level: 2009

SKILLS

- (Software) R, SAS base programming certificated, Linux, C++, Java, MS Office
- (Language) Korean, English