Ashley Kang

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Personal Statement

Highly motivated and enthusiastic second year MPH candidate at Columbia University Mailman School of Public Health pursuing a concentration in Epidemiology and a certificate in Applied Biostatistics looking to apply my skills and knowledge in a quantitative or data analysis based role where I can grow a long-term career and support a range of colleagues and clients. Strong quantitative skills demonstrated through coursework as well as teaching experience, both as a graduate teaching assistant and math and science instructor. Technically proficient in statistical programming in SAS and R with a working knowledge of STATA and SPSS. Experience with database management using Microsoft SQL Server and Microsoft Access Database.

Education

Columbia University Mailman School of Public Health; New York, NY | May 2019
MPH in Epidemiology, Certificate in Applied Biostatistics | GPA 4.01
Thesis: Sex Differences in Risk of Alzheimer's Disease in the Down Syndrome Population

University of California, Berkeley; Berkeley, CA | May 2016
B.A. Molecular and Cell Biology & Public Health (Honors)
Thesis: The Effect of Coenzyme Q (CoQ) on Beige Adipogenesis in a Human Cell Model

Experience

GRADUATE TEACHING ASSISTANT, Columbia University Mailman School of Public Health; *New York, NY*:
SEPT 2018 – PRESENT

- Department of Biostatistics, Analysis of Categorical Data: JAN 2019 – PRESENT
  - TA for core Epidemiology and Biostatistics course; assist in course grading, provide classroom support to lectures, hold weekly office hours
- Core Curriculum, Research Methods and Applications Studio – Quantitative Foundations: SEPT 2018 – DEC 2018
  - Facilitated weekly lab sections for 22 students for introductory course to Epidemiology and Biostatistics, including those with limited quantitative experience
  - Provided classroom support to lectures and extra student support outside of class

HEALTH RESEARCH TRAINING PROGRAM INTERN, New York City Department of Health; *Long Island City, NY*: JUN 2018 – AUG 2018

- Built data matching algorithms using SQL Server to match provider data from NYC DOHMH's Provider Data Warehouse to provider data from Medicaid Claims to research validity of data from Provider Data Warehouse
- Geocoded large datasets up to 60,000 records using NYC DOHMH's GeoPortal
- Built prototype tool catalog website for the Bureau of IT Informatics, which will be used to efficiently present and search for types of software and relevant information to DOHMH employees

MATH & SCIENCE INSTRUCTOR, Elite Educational Institute; *Los Angeles, CA*: SEPT 2016 – CURRENT

- Tutored students in SAT/ACT, ISEE, all math subjects up to Calculus, and Biology (AP, Honors, Regular)

- Increased SAT Math scores by 160 points on average, ACT Math scores by 5 points on average, and ACT Science scores by 4 points on average

UNDERGRADUATE RESEARCH ASSISTANT, The Stahl Lab, University of California, Berkeley; *Berkeley, CA*: FEB 2014 – MAY 2016

- Studied the relationship between Coenzyme Q (CoQ) and beige adipogenesis in a human cell model
- Wrote undergraduate honors thesis investigating whether statins affect both CoQ levels and *Ucp1* expression using primary human cultured subcutaneous preadipocytes that were differentiated into beige adipocytes and treated with atorvastatin, 4-chlorobenzoate (4-CBA), or vehicle controls
- Experience with literature research and manuscript-style writing
- Participated and presented in biweekly lab meetings

Presentations

Kang A. *Poverty and Registered Nurse Shortages in California*. Poster Presentation at Columbia Mailman School of Public Health Department of Environmental Health & Safety, December 2018.

Kang A, Nkwocha P. *Analyzing Medicaid Claims Data for Matching Against Provider Data Warehouse*. Poster Presentation at Columbia Mailman School of Public Health Department of Epidemiology Practicum Poster Session, October 2018.

Kang A, Stahl A, Chang, CF. *The Effect of Coenzyme Q (CoQ) on Beige Adipogenesis in a Human Cell Model*. Honors Thesis Symposium at University of California Berkeley Department of Public Health, May 2016.

Chae E, Do T, Hsu J, **Kang A**. *Effect of Sleep Deprivation Upon Incidence of Bicycle Injuries*. Poster Presentation at University of California Berkeley Department of Public Health, May 2015.

Skills

- **Proficient**: Microsoft Office, SAS, Microsoft SQL Server, Microsoft Access Databases, R, QGIS
- **Working Knowledge**: STATA, SPSS
- **Certificates**: CITI Human Subjects, HIPAA, Working with IAUAC (Animal Care)