James Y. Park

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LANGUAGES

Python, R, Julia, SQL, Cypher, Java, C++, HTML, Unified Process, Business Objects

EDUCATION

Harvard University   Cambridge, MA

S.M., Biostatistics (concentration in computer science)   May 2019

- *Awards and honors*: Harvard Chan Central Grant, Accelerated 1-year graduation, Forbes 30 Under 30 2018 Law & Policy Nominee
- *Thesis*: Examining Associations Between Accelerometry-based Physical Activity and Composite Clinical Biomarkers in Two Distinct Cohorts

Emory University   Atlanta, GA

B.S., Materials Science Engineering (with highest honor)   May 2017

- *Awards and honors*: Summa Cum Laude, 100 Senior Honorary, Emory Scholar, Dean's Achievement Scholarship, Accelerated 3-year graduation, Distinction in physics
- *Thesis*: A Call to Action for More Effective Preventative Care Strategies for HIV in MSM: A Combined Computational Model and Qualitative Analysis

WORK HISTORY

ReviveMed   Cambridge, MA

Data Scientist   June 2019 – Present

- Implement command-line Cypher queries and networkX scripts to generate molecular, study, and tissue-specific disease networks and to identify therapeutic targets via graph algorithms
- Develop command-line interface FeatureEngine platform that prioritizes features from raw omics data via statistical tests such as regression models, unsupervised machine learning, gaussian graphical model, and deep learning approaches
- Perform data-driven business development activities with a main focus on market intelligence that enables us to find different therapeutic areas to focus on

Centers for Disease Control and Prevention   Atlanta, GA

Data Fellow, Chronic Viral Diseases Branch   October 2017 – September 2018

- Executed analyses to show the efficacy of automating reviewing processes for assay results using R, SQL, and Python
- Developed several reproducible and cross-validated R packages to automate the data reporting process within the branch
- Migrated assay results of over 100,000,000 observations from multiple Microsoft access databases into a single relational SQL database
- Served as the executive member of CDC R User Group (RUG) to provide monthly statistical trainings and to facilitate inter and intra-collaboration

The Condom Pledge   Botswana

Co-Founder, Operation Manager   May 2013 – present

- Partner with a dozen advocacy organizations, garner support at federal level, and mobilized over 150,000 individuals in 60 countries

PUBLICATIONS

PUBLISHED ARTICLES

[1] Chien-Chang Lee, Sih-Shiang-Huang, Yee Hui Yeo, **James Y. Park** et al., "High-sensitivity-cardiac Troponin for Accelerated Diagnosis of Acute Myocardial Infarction: A Systematic Review of Meta-analysis." *American Journal of Emergency Medicine* (December 2019)

[2] Wan-Ting Hsu, Brandon P. Galm, Gregory Schrank, **Jame s Y. Park** et al. "Effect of renin-angiotensin-aldosterone system inhibitors on short-term mortality after sepsis: a population-based cohort study." *Hypertension* (November 2019)

[3] **James Y. Park**. "The Current State of Medical Error in South Korea." *Ethics & Medicine* (March 2019)

[4] **James Y. Park**. "Impact of specimen age on its DNA quality for Formalin-Fixed-Paraffin-Embedded HPV specimens." *International Society for Biological and Environmental Repositories* (February 2019)

[5] Songhomitra Panda-Jonas, Eun-Kee Park, **James Y. Park**, Charles D H Parry et al. "Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017 ." *The Lancet* (November 2018)

[6] **James Y. Park**. "Time to Rethink and Revert Stigma." *The Journal of Medical Practice Management* (August 2018)

[7] Troy D, Querec, Carly Herbert, **James Y. Park** et al., "Quality Assurance of DNA Detection Assays for Long-term Surveillance Studies of HPV." *APHL Review* (February 2018)

[8] **James Y. Park**. "A Call to Action for More Effective Preventative Care Strategies for HIV in MSM: A Combined Computational Model and Qualitative Analysis." *Journal of AIDS & Clinical Research* (February 2017)

[9] **James Y. Park**. "Extra-Personal Schemas: In and Out of Tourette's Syndrome." Undergraduate Research Journal of Human Sciences (June 2016)

SUBMITTED ARTICLES

[1] Gabriel M. Lee, **James Y. Park** et al., "Use of calcium channel blockers and risk of active tuberculosis disease: a population-based analysis." *Annals of the American Thoracic Society*

[2] **James Y. Park**, Yu-Chiang Wang, Eric Tsou et al., "Use of Opioids and Outcomes of Pneumonia: Results from the US Nationwide Inpatient Sample." *The Journal of Pain*

[3] **James Y. Park**, Heather Mattie, Patrick Gravelle., "Teaching Data Science in a School of Public Health." *Journal of Data Science*

CONSULTING EXPERIENCE

Out in Science Technology Engineering Mathematics (oSTEM).   November 2016 – November 2018
- Guide IT department on Salesforce-to-new platform transition while managing new chapter applications

PROFESSIONAL SERVICE

- Reviewer, *Technometrics*
- Reviewer, *International Journal for Equity in Health*
- Reviewer, *Health Psychology*
- Reviewer, *Journal of Health Disparities Research and Practice*