

LANGUAGES

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

EDUCATION

Harvard University

Cambridge, MA

S.M., Biostatistics (accelerated 1-year graduation)

May 2019

- Awards and honors: Forbes 30 Under 30 2018 Law & Policy Nominee, Harvard Chan Central Grant
- 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

Head of Operations

September 2020 – present

- Lead internal drug discovery products focusing on metabolic and chronic diseases
- Mentor data science and computational biology algorithmic and program development
- Perform data-driven business development such as hiring and market intelligence research

Data Scientist

June 2019 – August 2020

- Develop various algorithms to incorporate multiomics data in the Prize-Collecting Steiner Tree formula and implement command-line-interface programming and statistical softwares
- Infer therapeutic targets from molecular directed, undirected networks using Bayesian networks and graph algorithms
- Manage software and data engineering infrastructure of the company

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) Songhomitra Panda-Jonas, **James Park**, Deepak Kumar Pasupula et al., “Global age-sex specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950-2019: a comprehensive demographic analysis for the Global Burden of Disease Study 2019.” *The Lancet* (2020)
- 2) Chien-Chang Lee, Gabriel Lee, Wan-Ting Hsu, **James Y. Park** et al., “Use of calcium channel blockers and risk of active tuberculosis disease: a population-based analysis.” *Hypertension* (2020)
- 3) **James Y. Park**. “Spatial Visualization of Cluster-Specific COVID-19 Transmission Network in South Korea During the Early Epidemic Phase.” *Medrxiv* (2020)
- 4) **James Y. Park**, Elizabeth R. Unger, and Troy D. Querec. “Detection of Human Papillomavirus (HPV) DNA in Formalin-fixed Paraffin Embedded (FFPE) Tissues: Impact of Storage Time.” International Papillomavirus Conference (2020)
- 5) 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* (2019)
- 6) Wan-Ting Hsu, Brandon P. Galm, Gregory Schrank, **James 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)
- 7) **James Y. Park**. “The Current State of Medical Error in South Korea.” *Ethics & Medicine* (2019)
- 8) **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* (2019)
- 9) 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* (2018)
- 10) **James Y. Park**. “Time to Rethink and Revert Stigma.” *The Journal of Medical Practice Management* (2018)
- 11) 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* (2018)
- 12) **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* (2017)
- 13) **James Y. Park**. “Extra-Personal Schemas: In and Out of Tourette’s Syndrome.” Undergraduate Research Journal of Human Sciences (2016)

SUBMITTED ARTICLES

- 1) **James Y. Park**, Tzu-Chun Hsu, Jiun-Ruey Hu et al., “Machine Learning Approach for Predicting Sepsis Mortality in a Population-based National Database.” *JAMA Network* (2020)
- 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.” *Chest* (2020)
- 3) **James Y. Park**, Heather Mattie, Patrick Gravelle., “Teaching Data Science in a School of Public Health.” *Journal of Data Science* (2020)

ARTICLES IN PREPARATION

- 1) **James Y. Park**, Hsiang-Lin Chan, Jennie Hsu et al., “Comparing Hazard Ratio and Ratio of Restricted Mean Survival Times in Sepsis Randomized Controlled Trials.” (2020)

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*