Avi Kenny

avikenny@uw.edu | 914.316.3681 | 3618 Francis Ave N #111, Seattle, WA 98103

Education

University of Washington – Seattle, WA
PhD Candidate, Biostatistics (expected June 2023)

Brown University – Providence, RI
Bachelor of Arts, Biology (May 2011)

Work Experience

University of Washington, Department of Biostatistics – Seattle, WA   Sep 2018 – present
Research Assistant

- Worked on three projects related to the HPTN 084 phase III clinical trial: (1) running simulations to determine whether estimation of the relationship between Cabotegravir blood levels and HIV incidence is possible from the HPTN 084 trial design/data, (2) investigating the properties of the averted infections ratio (AIR) statistic, and (3) fitting nonlinear pharmacokinetic models to enable efficient sampling for a case-control sub-study.

Last Mile Health – Monrovia, Liberia   Feb 2014 – Jun 2018
Director of Research, Monitoring, and Evaluation

- Responsible for running the RM&E department, including managing a team of 14 full-time staff, crafting a long-term research & evaluation strategy, overseeing the design and implementation of all programmatic data collection and reporting systems, and managing a $600,000 annual budget.
- Led the design and execution of seven large-scale cluster sample surveys, and conducted a complete GIS mapping of five of Liberia's fifteen counties.
- Designed and wrote the software requirements for LMH's mHealth platform, the only platform in the world (at the time) capable of transferring data and app updates in fully-disconnected settings.
- Coded "Last Mile Data", an open-source data collection and reporting platform used for all programmatic data.
- Served as the in-country principal investigator (PI) for four research studies and co-authored seven publications in peer-reviewed academic journals.
- Advised and supported the Liberia Ministry of Health to design and implement a monitoring system to collect data from 4,000 community health workers and 400 clinical supervisors.

Studio In A School – New York, NY   Jun 2013 – Jun 2014
Database Consultant

- Performed an analysis of data-related needs and developed a customized database application (built with PhP, Javascript, and MySQL) to manage data resources and automate business processes.

Teach For America – New York, NY   Dec 2012 – Feb 2014
Senior Associate, Strategy and Operations

- Designed and built a data reporting system to channel data to TFA's Chief Operating Officer and eight Senior Vice Presidents.
- Worked with internal teams to ensure data accuracy, interpretability, and completeness.
- Provided support on several other projects, including a system for managing TFA's annual strategic planning cycle and the implementation of a new Salesforce database.

Last Mile Health – Zwedru, Liberia   Sep 2011 – Nov 2012
Monitoring and Evaluation Officer

- Designed, built, and implemented an M&E system to collect data from six community programs, automatically generate reports, and enable quality assurance processes.

- Responsible for managing a cluster sample survey, which involved coordinating an implementation team of fifteen, creating a database application to handle data entry, performing statistical analyses in Stata, and authoring a report of findings.

Gardens for Health International – Providence, RI; Kigali, Rwanda   Oct 2009 – Sep 2010
Monitoring and Evaluation Intern
- Designed a set of program indicators for a new initiative, created data collection tools, developed a database application in MS Access to handle incoming data and generate reports.

Brown University Folk Festival – Providence, RI   Sep 2009 – Jun 2011
Festival Coordinator
- Responsible for the overall execution of this annual event, including logistical oversight, publicity, audio technology management, contract negotiation, grant writing, financial management, volunteer coordination, and institutional knowledge management.

Schmitt Plant Physiology Lab – Providence, RI   Sep 2009 – Dec 2009
Research Assistant
- Analyzed and categorized phenotypes of mutant Arabidopsis thaliana plants.

Advantage Testing – Rye, NY   Jun 2008 – Aug 2008
Test Developer
- Wrote original blocks of practice ACT questions for a highly-regarded private tutoring service.

Skills

Information Technology. Advanced skill with R, Stata, MySQL, PhP, Javascript, HTML/CSS, MS Excel, MS Access, Adobe Photoshop, VBA. Experience with Apache Server, Java, C++, OS/hardware maintenance.
Semiprofessional Photographer. Awards in multiple international competitions, including BBC Wildlife.

Fellowships

2018 Achievement Rewards for College Scientists (ARCS) Foundation Fellowship. A merit-based award for academically outstanding students pursuing graduate degrees in science, engineering, and medical research.
2010 Smoke Fellowship. A competitive award funding travel to Kigali, Rwanda to work for Gardens For Health International, a non-governmental organization focusing on malnutrition.

Publications

Kenny A, Gordon, N, Downey J, Eddins O, Buchholz K, Menyon A, Mansah W. Design and implementation of a mobile health electronic data capture platform that functions in fully-disconnected settings: a pilot study in rural Liberia. *BMC Medical Informatics and Decision Making*. 2020; 20(39):1-8

Bruzelius E, Le M, **Kenny A**, Downey J, Danieletto M, Baum A, Doupe P, Silva B, Landrigan P, Singh P. Satellite images and machine learning can identify remote communities to facilitate access to health services. *Journal of the American Medical Informatics Association*. 2019; 26(8):806-812

White E, Downey J, Sathananthan V, Kanjee Z, **Kenny A**, Waters A, Rabinowich J, Raghavan M, Dorr L, Halder A, Nyumah J, Duokie D, Boima T, Panjabi R, Siedner MJ, Kraemer JD. A Community Health Worker Intervention to Increase Childhood Disease Treatment Coverage in Rural Liberia: A Controlled Before-and-After Evaluation. *American Journal of Public Health*. 2018; 108(9):1252-1259

Kenny A, Gordon N, Griffiths T, Kraemer JD, Siedner MJ. Validation Relaxation: A Quality Assurance Strategy for Electronic Data Collection. *Journal of Medical Internet Research*. 2017; 19(8):e297.

Luckow PW, **Kenny A**, White E, Ballard M, Dorr L, Erlandson K, Grant B, Johnson A, Lorenzen B, Mukherjee

S, Ly J, McDaniel A, Nowine N, Sathananthan V, Sechler GA, Kraemer JD, Siedner MJ, Panjabi, R. Implementation Research on Community Health Workers' Provision of Maternal and Child Health Services in Rural Liberia. *Bulletin of the World Health Organization*. 2017; 95(2):113-120.

Kentoffio K, Kraemer JD, Griffiths T, **Kenny A**, Panjabi R, Sechler GA, Selinsky S, Siedner MJ. Charting Health System Reconstruction in Post-War Liberia: A Comparison of Rural vs. Remote Healthcare Utilization. *BMC Health Services Research*. 2016; 16(1):478.

Ly J, Sathananthan V, Griffiths T, Kanjee Z, **Kenny A**, Gordon N, Basu G, Battistoli D, Dorr L, Lorenzen B, Thompson DR, Waters A, Moore U, Roberts R, Smith W, Siedner MJ, Kraemer JD. Facility-Based Delivery during the Ebola Virus Disease Epidemic in Rural Liberia: Analysis from a Cross-Sectional, Population-Based Household Survey. *PLoS Medicine*. 2016; 13(8):1-17.

Kenny A, Basu G, Ballard M, Griffiths T, Kentoffio K, Niyonzima JB, Sechler GA, Selinsky S, Panjabi R, Siedner MJ, Kraemer JD. Remoteness and Maternal and Child Health Service Utilization in Rural Liberia: A Population-based Survey. *Journal of Global Health*. 2015; 5(2):47-58.