

EMMA M. SHEPARD

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EDUCATION:

Columbia University, Mailman School of Public Health, New York, NY | GPA: 3.8

May 2018

Master of Science (MS) in Biostatistics | Pharmaceutical Statistics Concentration

- Honors: Huo Family Foundation Scholar (Merit-based scholarship for outstanding achievement in biostatistics)

Georgetown University, School of Nursing and Health Studies, Washington, DC | GPA: 3.8

May 2013

Bachelor of Science (BSc) in International Health | Mathematics Minor

- Honors: Phi Beta Kappa, Magna Cum Laude

Fudan University, Shanghai, China

June – July 2010

- One of 8 Georgetown students selected to participate in a global health summer study abroad program at Fudan University that, in addition to coursework, included field visits to traditional and modern medical clinics and the World Bank office in Beijing.
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EXPERIENCE:

Columbia University Department of Biostatistics, *Teaching Assistant*, New York, NY

January 2017 – Present

- Serve as a graduate teaching assistant for Randomized Clinical Trials course. Responsibilities include planning the curriculum in coordination with the professor, improving lecture materials, running office hours, and grading.

Acumen LLC, Washington, DC

Health Care Data and Policy Analyst II

February 2015 – July 2016

- Utilized SAS to manage and analyze data claims-based datasets containing 16 million observations to perform a wide array of client-driven analyses (also performed this task as Health Care Data and Policy Analyst I).
- Performed weekly queries of Acumen's in-house Medicare Part A & B claims database for multiple project teams.
- Collaborated with a large team of writers and statistical programmers to evaluate nine programs funded by the Health Care Innovation Awards (HCIA), which aim to identify novel approaches to health care provision that improve outcomes while lowering costs.
- Constructed backend data files for upload to the Medicare.gov physician compare website to assist beneficiaries in finding health care professionals enrolled in Medicare. Investigated quality measures for public reporting on the site to better aid users in decision making.

Health Care Data and Policy Analyst I

July 2013 – February 2015

- Conducted near-real time surveillance of influenza vaccination in the Medicare population, using sequential testing methodology to rapidly detect risk of adverse events and enabling policy makers to take remedial action early in the flu season.
- Improved the existing vaccine surveillance methodology by performing alpha spending analysis to compare schemes for spending alpha across 26 testing weeks during the flu season.
- Produced results for an upcoming paper on alpha spending and also helped author the background, methodology, and analysis sections.
- Served as lead writer of the vaccine surveillance team, synthesizing research for client consumption.

President's Emergency Plan for AIDS Relief (PEPFAR), *Volunteer*, Washington, DC

January 2013 – May 2013

- Evaluated the existing procedure for bi-annual review of country health statistics and designed a new protocol which improved data accuracy as well as efficacy of the review process.

Vector Control Research Center (VCRC), *Lead Researcher*, Puducherry, India

August 2012 – November 2012

- Designed and conducted a case-control study focusing on "hotspots" of persistent transmission of lymphatic filariasis after multiple rounds of mass drug administration in Tamil Nadu, India. Created a questionnaire to determine coverage and compliance with anthelmintic drugs and worked with a translator to administer the questionnaire to 152 individuals in Thanjavur district.
- Received individualized training from VCRC scientists and Indian public health officials regarding vector borne disease, vector control, and public health in clinical, laboratory, and field settings.

United Biosource Corporation (UBC), *Summer Intern: Health Economics and Outcomes Research Dept.*, Bethesda, MD

June-July 2012

- Scanned the competitive market for companies engaged in patient reported outcomes (PRO), collated competitor information, and made recommendations for future PRO activities.

Medco Health Solutions Inc., *Summer Intern: Clinical Analytics and Outcomes Research Dept.*, Franklin Lakes, NJ

June-August 2011

- Used SAS software to analyze claims data concerning compliance and persistence with Tamoxifen therapy versus Aromatase Inhibitors among breast cancer patients.

Statistical and Applied Mathematical Sciences Institute (SAMSI), *Student*, Research Triangle Park, NC

May 2011

- Sponsored to participate in a one-week intensive workshop for undergraduates focusing on statistics and applied mathematical modeling and analysis of real-world data from the CDC.
- Learned the basics of R, an open source software and programming language used for statistical analysis.

Georgetown University, School of Nursing and Health Studies, *Research Assistant*, Washington, DC

September 2010-May 2011

- Aided Dr. Jennifer Huang Bouey in compiling her NIH-funded study on HIV/AIDS among high-risk groups in China.
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SKILLS:

Computer: SAS, R, SQL, Excel

Languages: Portuguese (limited working proficiency)

Certifications: HIPAA Patient Privacy