Monica W. Gerber

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EDUCATION

Boston University School of Public Health, M.P.H., Biostatistics & Epidemiology   2015

Reed College, B.A., Anthropology   2011

EMPLOYMENT

Biostatistician, *Massachusetts General Hospital | Boston, MA*   Jan. 2015–present

In sit in the Division of General Academic Pediatrics (Feb. 2016–present) and at the Center for Community Health Improvement (Oct. 2016–present). MGH Community Psychiatry Program (Jan. 2015–Feb. 2016).

- Build statistical models and analyze large datasets from RCTs, longitudinal studies, electronic health records, and surveys to understand the distribution and determinants of health.
- Collaborate with doctors, researchers, and stakeholders to turn research questions into actionable analysis plans.
- Communicate results through data visualizations, writing, data tables, and interactive apps.
- Extract clinical and real world data from EHRs, claims, and other large databases.
- Mentor and support students and fellows in biostatistics and the preparation of manuscripts.

Graduate Research Assistant, *BU School of Public Health | Boston, MA*   Jun.–Dec. 2014

- In the department of Community Health Sciences, I analyzed data from the YRBS using mixed models to understand youth substance use.
- Developed an index to measure exposure to state-level substance use policies.

Spotlight Coordinator, *BU School of Public Health | Boston, MA*   May–Dec. 2014

- Launched Spotlight on Mental Health, a school-wide initiative to examine issues in mental health from an interdisciplinary public health lens.
- Led and supported a faculty, student, and staff committee overseeing Spotlight.
- Planned campus events and programs. Managed communications, marketing, and outreach.

Consultant Resource Development Specialist, *Health Leads | Boston, MA*   Oct.–Dec. 2013

- Conducted an audit to improve quality of resources in the Salesforce database.
- Developed methods for better data management.

AmeriCorps VISTA Member, *Oregon Campus Compact | Portland, OR*   Apr. 2012–Aug. 2013

- Team Leader for 34 Summer AmeriCorps Members serving in public schools.
- Developed content and built out organizational website.
- Reported and mapped educational outcomes for state using public data and GIS software.
- Managed marketing, communications, fundraising, events, and volunteer outreach.

Global Envision Intern, *Mercy Corps | Portland, OR*   Nov. 2011–Apr. 2012

- Wrote articles about globalization and solutions to poverty for Mercy Corps' blog.

TEACHING

Graduate Teaching Assistant, *Boston University School of Public Health*   2014–2015

- Introduction to Epidemiology (EP713), Fall 2015, Ann Aschengrau
- Introduction to Epidemiology (EP713), Fall 2014, Jacey Greece

SKILLS

- Data Science: R, SQL, SAS, Github/Gitlab, markdown
- Epidemiology: Causal inference, study design, questionnaire design, methods for bias and confounding.
- Biostatistics: Advanced statistical modeling, missing data methods, model selection, propensity score analysis.
- Other: Writing and communication to technical and general audiences, mixed methods analysis, ethnographic methods

PUBLICATIONS

Whooten, R.C., Perkins, M.E., **Gerber, M.W.** and Taveras, E.M., 2018. Effects of Before-School Physical Activity on Obesity Prevention and Wellness. American journal of preventive medicine.

Valentine, S.E., Nobles, C.J., **Gerber, M.W.**, Vaewsorn, A.S., Shtasel, D.L. and Marques, L., 2017. The association of posttraumatic stress disorder and chronic medical conditions by ethnicity. Journal of Latina/o psychology, 5(3), p.227.

Fiechtner, L., Puente, G.C., Sharifi, M., Block, J.P., Price, S., Marshall, R., Blossom, J., **Gerber, M.W.** and Taveras, E.M., 2017. Peer Reviewed: A Community Resource Map to Support Clinical–Community Linkages in a Randomized Controlled Trial of Childhood Obesity, Eastern Massachusetts, 2014–2016. Preventing chronic disease, 14.

Taveras, E.M., Marshall, R., Sharifi, M., Avalon, E., Fiechtner, L., Horan, C., **Gerber, M.W.**, Orav, E.J., Price, S.N., Sequist, T. and Slater, D., 2017. Comparative effectiveness of clinical-community childhood obesity interventions: a randomized clinical trial. JAMA pediatrics, 171(8), pp.e171325-e171325.

Nobles, C.J., Valentine, S.E., **Gerber, M.W.**, Shtasel, D.L. and Marques, L., 2016. Predictors of treatment utilization and unmet treatment need among individuals with posttraumatic stress disorder from a national sample. General hospital psychiatry, 43, pp.38-45.

Nobles, C.J., Valentine, S.E., Borba, C.P., **Gerber, M.W.**, Shtasel, D.L. and Marques, L., 2016. Black-white disparities in the association between posttraumatic stress disorder and chronic illness. Journal of psychosomatic research, 85, pp.19-25.

Nobles, C.J., Thomas, J.J., Valentine, S.E., **Gerber, M.W.**, Vaewsorn, A.S. and Marques, L., 2016. Association of premenstrual syndrome and premenstrual dysphoric disorder with bulimia nervosa and binge-eating disorder in a nationally representative epidemiological sample. International Journal of Eating Disorders, 49(7), pp.641-650.

LeBlanc, N.J., Dixon, L., Robinaugh, D.J., Valentine, S.E., Bosley, H.G., **Gerber, M.W.** and Marques, L., 2016. PTSD and Romantic Relationship Satisfaction: Cluster-and Symptom-Level Analyses. Journal of traumatic stress, 29(3), pp.259-267.

Valentine, S.E., **Gerber, M.W.**, Nobles, C.J., Shtasel, D.L. and Marques, L., 2016. Longitudinal study of mental health and pain-related functioning following a motor vehicle collision. Health psychology, 35(7), p.742.

PRESENTATIONS

Gerber, M.W., Fiechtner, L., Horan, C., Orav, E.J., Taveras, E.M. Clinical-Community Intervention for Childhood Obesity: Effect Modification by Socio-Demographic Groups. Poster Presentation: Society of Epidemiologic Research Annual Meeting 2017, Seattle, WA.

Gerber, M.W,. Ziming X., Naimi T. Marijuana policy environment and youth marijuana use: The influence of state-level decriminalization and medical marijuana laws. Poster Presentation: Research Days 2014, Evans Memorial Department of Medicine, Boston University, Boston, MA.

OTHER EXPERIENCE AND SERVICE

Meet-up Organizer, *Boston R-Ladies*   Mar. 2018–present

R-ladies is a world-wide organization to promote gender diversity in the R community.

Science Fair Mentor, *MGH Timilty Middle School Partnership*   Oct. 2017–Feb. 2018

Budget Commitee Member, *City of Cambridge Participatory Budegeting*   2016 and 2017 cycles

Participatory budgeting is a democratic process through which the community decides how to spend part of the city's budget. I evaluated ideas from community and developed them into projects for the ballot.

Volunteer, *YWCA of Greater Portland*   Feb. 2012–Jun. 2013

Completed a 30-hour training in domestic violence issues, volunteered at the YWCA's shelter, and supported development projects.