

# Rebecca Ehrenkranz

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## EDUCATION

- University of Pittsburgh Graduate School of Public Health**, Pittsburgh, PA Expected 2022
- PhD in Epidemiology
- Johns Hopkins Bloomberg School of Public Health**, Baltimore, MD May 2016
- Master of Public Health
- Brandeis University**, Waltham, MA May 2013
- B.A. double major in:
    - Health: Science, Society, and Policy
    - Islamic and Middle Eastern Studies

## SKILLS SUMMARY

- Biostatistics
- Research synthesis
- Data quality
- Data analysis
- Scientific presentations
- Project management

## RESEARCH EXPERIENCE

**University of Pittsburgh Graduate School of Public Health**, Pittsburgh, PA Aug. 2019 - Present  
*T32 Population Neuroscience of Alzheimer's Disease and Age-Related Dementia Predoctoral Trainee*  
*Epidemiology of Brain Resilience to Aging (eBrain) Research Group*  
PhD Student

- Examine the relationship between energy decline, brain integrity, and parkinsonism/Parkinson's Disease
- Explore novel associations between perceived energy, functional capacity, and objective metrics of physical activity
- Determine correlates of healthy brain aging in collaboration with internal and external investigators
- Evaluate the underlying neurobiology of perceived energy and fatigue in healthy older adults
- Perform statistical analyses on prospective epidemiologic cohort data

**National Institutes of Health/National Cancer Institute**, Rockville, MD June 2017 – Aug. 2019  
*Division of Cancer Control & Population Sciences; Surveillance Research Program; Data Quality, Analysis, & Interpretation Branch*  
Cancer Research Training Award Fellow

- Conducted research and identified biases in Surveillance, Epidemiology and End-Results (SEER) cancer data
- Managed data quality, including: process documentation, analyses, and presentations to program leadership
- Designed linkage of SEER hepatocellular carcinoma data with hepatitis data from infectious disease registries
- Audited SEER human papillomavirus data in oropharyngeal cancer for accuracy and completeness via text-mining algorithm
- Disseminated results through publications in peer-reviewed journals and at national conferences
- Represented NCI-SEER with external stakeholders and research partners, such as CDC and cancer registries nationwide

**Johns Hopkins Bloomberg School of Public Health**, Baltimore, MD Sept. 2016 - June 2017  
Research Data Abstractor, International Vaccine Access Center

- Supported a systematic literature review for a meta-analysis of pneumococcal conjugate vaccine (PCV) trials
- Screened papers for inclusion and extracted data from relevant sources using Distiller software
- Produced summary reports for Gavi, the Vaccine Alliance, on global disease impact and PCV products and schedules
- Addressed critical knowledge gaps regarding optimal PCV regimens

**Institute for Health Metrics and Evaluation**, Seattle, WA Sept. 2016 – Mar. 2017  
Global Burden of Disease Researcher in Neglected Tropical Disease

- Estimated morbidity and mortality for: Zika, Human African Trypanosomiasis, Leishmaniasis, and Rabies
- Identified and reviewed new data sources in order to determine their relevance and utility for ongoing analyses
- Contributed to vetting, improving, and finalizing results

**Johns Hopkins Bloomberg School of Public Health**, Baltimore, MD Oct. 2015 – Apr. 2016  
Project Coordinator, Vector-Borne Disease Surveillance Study (practicum project)

- Provided oversight of this study designed to monitor traveler's exposure to vector-borne disease in Latin America and the Caribbean, including Zika, Dengue, and Chikungunya
- Revised Institutional Review Board materials and promoted participant recruitment efforts
- Collaborated with the CDC's Traveler's Health Bureau and updated study materials per latest Zika prevention guidelines

**Johns Hopkins School of Medicine/Johns Hopkins Hospital, Baltimore, MD**

Jan. 2016 – Sept. 2016

Graduate Student Clinical Researcher

- Dana Center for Preventative Ophthalmology:
  - Formulated Stata code for database creation and management
  - Planned and implemented data analysis alongside the Primary Investigator
  - Co-authored on the manuscript for the Dana Center's age-related macular degeneration study on patient gait
- Comprehensive Stroke Center:
  - Assembled data for the Stroke Recovery Project on stroke outcomes utilizing Epic, Excel, and Stata
  - Assessed patients' neurological function in clinic using neuropsychiatric tests
  - Created the official 'Get With The Guidelines' stroke recovery database

**Dana-Farber Cancer Institute/Dana-Farber Harvard Cancer Center, Boston, MA**

June 2013 – June 2015

Clinical Investigational Data Analyst: Level II (Sept. 2014- June 2015) & Level I (June 2013-Sept. 2014)

- Analyzed data for Phase I, Thoracic, Sarcoma and Proton Beam trials run through Dana-Farber/Harvard Cancer Center
- Reviewed and further developed proposed protocols for thoroughness and viability
- Monitored data quality control and quality assurance procedures for oncology trials
- Designed electronic case report forms for data capture, curated data records, and utilized Unix/SAS/SQL to manage data
- Tracked and reported all adverse events and severe adverse events to the Data and Safety Monitoring Committee

### **PUBLIC HEALTH EXPERIENCE**

**Project Sunshine, Washington, DC**

Sept. 2017 – Aug. 2019

*Project Sunshine provides programs supporting hospitalized pediatric patients and their families*

Volunteer Event Leader

- Led activities designed to encourage socialization and promote relaxation
- Coordinated volunteer participation at monthly events at a local children's hospital and the NIH Children's Inn

**Fund for Global Health, Seattle, WA**

Apr. 2017 – June 2017

*Fund for Global Health is a philanthropic agency working to provide innovative global health solutions through advocacy*

Global Health Advocacy Intern: Tuberculosis

- Targeted communication about the importance of funding tuberculosis control to federal and state representatives
- Built relationships with congressmen, senators, and their respective staff
- Engaged partner organizations (such as RESULTS: the power to end poverty) to assist with ongoing advocacy efforts

**Universities Allied for Essential Medicines: Hopkins Chapter, Baltimore, MD**

Sept. 2015 – May 2016

Student Organizer

- Advocated successfully for Johns Hopkins University to grant the Medicines Patent Pool an exclusive, royalty-free license to develop sutezolid (a promising drug candidate to treat multi-drug resistant tuberculosis)

**Brandeis Student Health Advisory Committee, Waltham, MA**

Sept. 2011 – May 2012

Student Advisor

- Represented the Brandeis student body in liaison group between students and the University Health Center
- Organized Brandeis Health Week, a series of events designed to familiarize students with Health Center resources and staff

### **PROFESSIONAL DEVELOPMENT**

**Conference presentations:** Gerontological Society of America (Poster presentation, 2020); Society for Epidemiologic Research (Poster presentations, 2018 - 2020); Society of Behavioral Medicine Annual Meeting (Poster presentation, 2019); Division of Cancer Control and Population Sciences Fellows Symposium (Oral presentation, 2018); North American Association of Central Cancer Registries [NAACCR] Annual Conference (Oral presentation, 2018); NAACCR Annual Education Conference/SEER Workshop (Oral presentation, 2018); JHSPH Capstone Symposium (Oral presentation, 2016)

**Invited presentations:** Society for Epidemiologic Research Speed Mentoring Panel for Epidemiologists Considering Returning to School to Pursue Doctoral Studies (2021); NIH Liver Fibrosis to Cancer workshop (2019); CAMTech MGH Zika Innovation Hackathon (2016)

**Awards:** \$400 travel scholarship to the Society for Epidemiologic Research 53<sup>rd</sup> annual meeting

**Certifications:** Translational Research in Clinical Oncology (National Cancer Institute, 2017); Tuberculosis: Diagnosis, Treatment, and Prevention (Johns Hopkins Center for Clinical Global Health Education, 2017); Oracle InForm (2013); HIPAA (2011)

## PUBLICATIONS IN PROCESS

- Energy Decline is Correlated with Striatum Volume and Parkinsonian Signs in Community-Dwelling Older Adults (revise and resubmit, *Journal of Gerontology Medical Sciences*). **Rebecca Ehrenkranz**, Qu Tian, Andrea Rosso, Xiaonan Zhu, Caterina Rosano
- Declining Energy Predicts Incident Mobility Disability and Mortality Risk in Healthy Older Adults (revise and resubmit, *Journal of the American Geriatrics Society*). Briana N. Sprague, Xiaonan Zhu, **Rebecca Ehrenkranz**, Qu Tian, Theresa A. Gmelin, Nancy W. Glynn, Andrea L. Rosso, Caterina Rosano

## PUBLICATIONS

- Changes in Self-Reported Energy Levels in Prodromal Parkinson's Disease (2021). Lana Chahine, Xiaonan Zhu, **Rebecca Ehrenkranz**, Honglei Chen, Nancy Glynn, Caterina Rosano. *Movement Disorders*
- Functional Correlates of Self-Reported Energy Levels in the Health, Aging, and Body Composition Study (2021). **Rebecca Ehrenkranz**, Andrea L. Rosso, Briana N. Sprague, Qu Tian, Theresa Gmelin, Nicolaas Bohnen, Eleanor M. Simonsick, Nancy W. Glynn, Caterina Rosano. *Journal of Aging Clinical and Experimental Research*
- Perception of Energy and Objective Measures of Physical Activity in Older Adults (2020). Qu Tian, Nancy W. Glynn, **Rebecca Ehrenkranz**, Briana N. Sprague, Andrea L. Rosso, Caterina Rosano. *Journal of the American Geriatrics Society*, 68 (8): 1876 - 1878
- Geographic Disparities in Cancer Screening and Fatalism Among a Nationally-Representative Sample of U.S Adults (2019). Jennifer Moss, **Rebecca Ehrenkranz**, Lilian Constanza, Brionna Hair, Anne Julian. *Journal of Epidemiology and Community Health*, 73: 1128 - 1135
- Quality Assessment of Tumor Size Data Collection for Breast & Pancreatic Cancer (2018). **Rebecca Ehrenkranz**, Clara Lam, David Dilts, Steven Cheng, Amy Solis, Valentina Petkov, Serban Negoita. *Journal of Registry Management*, 45 (4), 161 - 166
- Gait Characteristics of Age-Related Macular Degeneration Patients (2017). Varshini Varadaraj, Aleksandra Mihailovitch, **Rebecca Ehrenkranz**, Stephen Lesche, Pradeep Ramulu, Bonnielin Swenor. *Translational Vision Science & Technology*. 6(4), 14
- Global, Regional, & National Burden of Cardiovascular Disease for 10 Causes 1990 to 2015 (2017). Gregory Roth...**Rebecca Ehrenkranz**...Christopher JL Murray. *Journal of the American College of Cardiology*, 70 (1): 1- 25 [Please refer to Notes/Supplementary Appendix for complete author/collaborator list]
- GBD 2015 Tuberculosis Collaborators (2018). The global burden of tuberculosis: results from the Global Burden of Disease Study 2015. Hmwe H. Kyu...**Rebecca Ehrenkranz**...Christopher JL Murray. *The Lancet Infectious Diseases*. 2018; 18(3):261-284. [Please refer to Notes/Supplementary Appendix for complete author/collaborator list]
- GBD 2015 Healthcare Access & Quality Collaborators (2017). Healthcare Access & Quality Index based on mortality from causes amenable to personal healthcare in 195 countries & territories, 1990 – 2015: a novel analysis from the Global Burden of Disease Study 2015. Ryan Barber...**Rebecca Ehrenkranz**...Christopher JL Murray. *The Lancet*, 390 (10091), 231-266. [Please refer to Notes/Supplementary Appendix for complete author/collaborator list]
- GBD 2015 Eastern Mediterranean Region Mental Health Collaborators (2017). The burden of mental disorders in the Eastern Mediterranean Region, 1990–2015: Findings from the Global Burden of Disease 2015 study. Ali Mokdad, Raghid Charara...**Rebecca Ehrenkranz**...Christopher JL Murray. *International Journal of Public Health*, 63 (Suppl. 1): 25 – 37 [Please refer to Notes/Supplementary Appendix for complete author/collaborator list]
- GBD 2015 Eastern Mediterranean Region Maternal Mortality Collaborators (2017). Maternal mortality & morbidity burden in the Eastern Mediterranean Region: Findings from the Global Burden of Disease 2015 study. Ali Modad, Ibrahim Khalil...**Rebecca Ehrenkranz**...Christopher JL Murray. *International Journal of Public Health*, 63 (Suppl. 1): 47- 61 [Please refer to Notes/Supplementary Appendix for complete author/collaborator list]
- GBD 2015 Eastern Mediterranean Region Neonatal, Infant, and Under – 5 Collaborators (2017). Neonatal, infant, & under-5 mortality & morbidity burden in the Eastern Mediterranean Region: Findings from the Global Burden of Disease 2015 study. Ali Mokdad, Ibrahim Khalil...**Rebecca Ehrenkranz**...Christopher JL Murray. *International Journal of Public Health*, 63 (Suppl. 1): 63 - 77 [Please refer to Notes/Supplementary Appendix for complete author/collaborator list]
- GBD 2015 Eastern Mediterranean Region Lower Respiratory Infections Collaborators (2017). Burden of lower respiratory infections in the Eastern Mediterranean Region between 1990 and 2015: Findings from the Global Burden of Disease 2015 study. Ali Modad, Maziar Moradi-Lakeh...**Rebecca Ehrenkranz**...Christopher JL Murray. *International Journal of Public Health*, 63 (Suppl. 1): 97 - 108. [Please refer to Notes/Supplementary Appendix for complete author/collaborator list]
- GBD 2015 Eastern Mediterranean Region Transportation Injury Collaborators (2017). Transport injuries & deaths in the Eastern Mediterranean Region: Findings from the Global Burden of Disease 2015 study. Ali Mokdad, Ibrahim Khalil...**Rebecca Ehrenkranz**...Christopher JL Murray. *International Journal of Public Health*, 63 (Suppl. 1): 187 - 198 [Please refer to Notes/Supplementary Appendix for complete author/collaborator list]