

# BRANDON M. HERBERT

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## EDUCATION

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- Jan 2020 – Present      **PhD Student, Epidemiology**  
*University of Pittsburgh*  
Pittsburgh, PA
- Aug 2018 – Dec 2020      **Master of Public Health, Epidemiology**  
*University of Pittsburgh – GPA 3.98 / 4.00*  
Pittsburgh, PA
- Apr 2017      **Bachelor of Science in Chemistry**  
*University of Pittsburgh – Cum Laude*  
Pittsburgh, PA
- Apr 2017      **Certificate in Managing Health Services, Programs, and Projects**  
*University of Pittsburgh*  
Pittsburgh, PA

## RESEARCH EXPERIENCE

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- May 2021 – Present      **Pre-doctoral Trainee**  
*University of Pittsburgh, T32 Cardiovascular Epidemiology Training Program (Director: Akira Sekikawa, MD, PhD).*  
Pittsburgh, PA
- Complete degree required coursework and prepare and publish 3 first-authored papers as part of the dissertation process.
  - Dissertation is titled “The impact of the COVID-19 pandemic on acute coronary syndrome hospitalizations and identifying implications for future public health response measures to pandemics”. The objective of the dissertation is to estimate the impacts of the COVID-19 pandemic and government responses on acute coronary syndrome hospitalizations, all-cause mortality and ischemic heart disease mortality at local, state and national levels.
- Aug 2019 – May 2021      **Graduate Student Research Assistant**  
*University of Pittsburgh, Department of Medicine, Division of Cardiology (PI: Jared Magnani, MD, MSc)*  
Pittsburgh, PA
- Perform data management and analysis for multiple projects that include investigating how environmental

factors contribute to heart failure and assessing the influence of social determinants of health on cardiovascular disease risk. Work closely with cardiology residents to develop research questions and projects.

May 2019 – Aug 2019

**Graduate Student Research Assistant**

*University of Pittsburgh, Department of Medicine, Division of Cardiology (PI: Jared Magnani, MD, MSc)*  
Pittsburgh, PA

- For my MPH internship, I began working with Dr. Magnani, Dr. Christina Mair, and Jessica Thompson on a heart failure 30-day readmission study that used UPMC electronic health record (EHR) data. Recoded and structured the original data sets, geocoded patient addresses, and conducted multi-level modelling.

Oct 2018 – Aug 2019

**Graduate Student Research Assistant**

*University of Pittsburgh, Department of Emergency Medicine (PI: Daniel Patterson, PhD)*  
Pittsburgh, PA

- Created and tested educational modules for a study estimating the effects of fatigue in emergency medical service (EMS) personnel.
- Performed project management/data analysis for a separate feasibility study focusing on measuring ambulatory blood pressure in EMS personnel. Implemented and honed skillsets gained from School of Public Health coursework (e.g., using the software SAS and Stata).

Jul 2017 – Feb 2018

**Technician**

*Medix Staffing / Aluminum Company of America (Alcoa)*  
New Kensington, PA

- Collaborated on a research and development team that primarily focused on ceramics. Rewrote safe work instructions, performed experiments and documented data, maintained machines and instruments, and ideated with team members.

Sep 2016 – Apr 2017

**Undergraduate Research Mentor**

*University of Pittsburgh, Office of Undergraduate Research*  
Pittsburgh, PA

- Developed undergraduate students through my position as an undergraduate teaching assistant for a First Experiences in Research course. Led proposal writing workshops and research seminars; spoke on panels and at events.

Jan 2016 – Apr 2016

**Undergraduate Researcher**

*Office of Undergraduate Research, New York City Field Studies Program (PI: John Alcorn, PhD)*

Pittsburgh, PA; New York, NY

- Independently developed a research proposal and hypothesis which aimed to assess the relationship between childhood asthma rates observed in East Harlem, NYC with ER visits, particulate matter concentrations, and ethnicity.

Jan 2015 – Dec 2015

**Undergraduate Researcher / Student**

*John G. Rangos Sr. Research Center (PI: John Alcorn, PhD)*

- Worked extensively with reverse transcription polymerase chain reaction, cell culture preparation, and statistical analysis tools in Microsoft Excel.

**MILITARY EXPERIENCE**

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Mar 2019 – present

**1<sup>st</sup> Lieutenant, Multifunction Platoon Leader**

*PA Army National Guard, 28<sup>th</sup> Infantry Division, 876<sup>th</sup> Engineer Brigade Battalion, Military Intelligence Company*

Washington, PA

- Develop, train, and lead a platoon of military intelligence Soldiers that focus on collecting and analyzing human and signals intelligence from the battlefield (one weekend/month and two to three additional weeks/year).

Apr 2017 – Feb 2019

**2<sup>nd</sup> Lieutenant, Battalion Intelligence Officer**

*PA Army National Guard, 28<sup>th</sup> Infantry Division, 128<sup>th</sup> Brigade Support Battalion, HHC*

Pittsburgh, PA

- Led a team that focused on keeping the commander up-to-date about the enemy and battlespace. Trained and developed new Soldiers assigned to my section on how to be a professional in military intelligence and hone their skillsets.

Mar 2018 – Jul 2018

**2<sup>nd</sup> Lieutenant, Student**

*Military Intelligence Basic Officer Leader Course*

Fort Huachuca, AZ

- Learned how to operate as a military intelligence Soldier and strengthened my leadership skills through practice.

Sep 2013 – May 2017

**Cadet**

*University of Pittsburgh, Army Reserve Officers' Training Corps (ROTC)*

Pittsburgh, PA; Fort Knox, KY; Landstuhl, Germany

- ROTC is a demanding program that prepares college students to become officers in the military upon graduation.
- Earned a 2016 summer internship through the Army Medical Department (AMEDD) that involved interning for a month at the Landstuhl Regional Medical Center located in Germany. Learned from Army physicians and Medical Service Corps officers about how to operate in the Army's medical system.

## FELLOWSHIP EXPERIENCES

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Jan 2014 – Apr 2017

### **Fellow / Lead Fellow**

*Birmingham Free Clinic / Birmingham Health Links*  
Pittsburgh, PA

- Assisted patients in finding housing, food pantries, job training, medical coverage, and more. As a lead fellow, organized reflective sessions and recruited speakers from the area while mentoring new fellows.

## PROFESSIONAL PRESENTATIONS

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### PUBLICATIONS:

1. **Herbert BM**, Johnson AE, Paasche-Orlow MK, Brooks MM and Magnani JW. Disparities in Reporting a History of Cardiovascular Disease Among Adults With Limited English Proficiency and Angina. *JAMA Netw Open*. 2021;4:e2138780.
2. Silva RL, Guhl EN, Althouse AD, **Herbert B**, Sharbaugh M, Essien UR, Hausmann LRM and Magnani JW. Sex differences in atrial fibrillation: patient-reported outcomes and the persistent toll on women. *American Journal of Preventive Cardiology*. 2021;8.
3. Medoff BS, **Herbert BM**, Baird AS and Magnani JW. Does education modify the association between depression and cardiovascular health? (from the National Health and Nutritional Examination Survey, 2013–14 and 2015–16). *American Heart Journal Plus: Cardiology Research and Practice*. 2021.
4. Stokes N, **Herbert B**, Johnson A and Magnani JW. The effect of the lone parent household on cardiovascular health (National Health and Nutrition Examination Survey, 2015–2016). *American Heart Journal Plus: Cardiology Research and Practice*. 2021;3.
5. Patterson PD, Mountz KA, Agostinelli MG, Weaver MD, Yu YC, **Herbert BM**, Markosyan MA, Hopkins DR, Alameida AC, Maloney Iii JA, Martin SE, Brassil BN, Martin-Gill C, Guyette FX, Callaway CW and Buysse DJ. Ambulatory blood pressure monitoring among emergency medical services night shift workers. *Occup Environ Med*. 2020.

### SELECTED ABSTRACTS FOR PROFESSIONAL MEETINGS:

1. **Herbert BM**, Brooks M, Magnani J. A Cross-Sectional Analysis of the Association Between the American Heart Association's Life's Simple 7 and Social Risk Factors in US Adults: NHANES 2015-2016. American Heart Association's 28<sup>th</sup> Annual Fellow's Research Day. Pittsburgh, PA; *Submitted, acceptance pending*.

2. Patterson P, Weaver M, Hopkins D, **Herbert BM**, Mountz K, Markosyan M, Buysee D, Weiss L. Does napping during night shifts impact indicators of cardiovascular health for EMS clinicians: A preliminary report. National Association of EMS Physicians 2020 Annual Meeting. San Diego, CA; Jan 6-11, 2020.
3. **Herbert BM**, Salerno J, Weiss L, Salcido D. Temporal Fluctuations in PulsePoint Coverage in Allegheny County. American Heart Association's 27<sup>th</sup> Annual Fellow's Research Day. Pittsburgh, PA; Jan 12, 2018.

SELECTED POSTER PRESENTATIONS:

1. **Herbert BM**, Thompson J, Mair C, Magnani J. Heart Failure 30-day Readmissions and Food Environments in SWPA: A Multilevel Analysis. Epi in Action (2019), University of Pittsburgh, Graduate School of Public Health. Pittsburgh PA; Oct 3, 2019.
2. **Herbert BM**, Zikun C, Yuequan L, Wu R. Synthesis and Characterization of Silver Nanoparticles. University of Pittsburgh, Department of Chemistry, Instrumental Analysis. Pittsburgh, PA; Apr 21, 2017.

HONORS AND AWARDS

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Jan 2019	Campaign for the Next 5,000 Alumni Awardee – University of Pittsburgh, Graduate School of Public Health
Jan 2014	U.S. Army ROTC 3.5-year STEM Scholarship Awardee – University of Pittsburgh
Fall 2018 – Fall 2021	Dean's List University of Pittsburgh (Graduate)