

**Jessica Salerno, MPH**

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**Education and Training**

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**PhD Student in Epidemiology**

University of Pittsburgh Graduate School of Public Health | January 2020 -

**Master of Public Health in Infectious Diseases and Microbiology**

University of Pittsburgh Graduate School of Public Health | December 2019

Thesis Title: *Factors influencing undervaccination in the United Kingdom prior to measles outbreaks from 2010 to 2019*

**Bachelor of Arts in Anthropology with Spanish minor, *magna cum laude***

University of Pittsburgh School of Arts and Sciences | August 2016

Thesis Title: *Mountain Dew and the tooth fairy: health beliefs surrounding dental caries in rural Appalachia*

**Public Health Training**

- Clinic on Meaningful Modeling of Epidemiological Data | Stellenbosch University | Cape Town, South Africa | May-June 2019
- Public Health in Colombia | Pontificia Universidad Javeriana | Bogotá, Colombia | June-July 2018
- Jonas Salk Fellowship | Jewish Healthcare Foundation | Pittsburgh, PA | September-November 2017

**Field School Experience**

- Mortuary Archaeology Field School | Slavia Foundation | Drawsko, Poland | July-August 2016
  - Amazon and Andes Field School | University of Pittsburgh | Tena, Ecuador | June-July 2016
  - CAPA Global Education Network | Australian Catholic University | Sydney, Australia | January-April 2015
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## Work and Research Experience

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### Project Coordinator

*University of Pittsburgh Graduate School of Public Health, Public Health Dynamics Lab* | May 2019 - Present

- Models of Infectious Disease Agents Study Coordination Center (MIDAS CC) | PI: Wilbert Van Panhuis, MD, PhD
  - Coordinate data sharing between study sites and create metadata from these datasets
  - Develop and oversee community resources and outreach programs
  - Correspond with key agencies in the event of pandemic to organize public health response
  - Supervise graduate student research assistants through data curation process

### Research Specialist

*University of Pittsburgh School of Medicine, Department of Emergency Medicine* | October 2016-Present

- Trauma Care in a Rucksack (TRACIR) | PI: Michael Pinsky, MD, David Salcido, PhD, Frank Guyette, MD, Lenny Weiss, MD: May 2018-Present
  - Clean and organize data from a large prehospital database using MySQL and STATA
  - Annotate signal files to indicate when patients required a life-saving intervention (LSI) using MATLAB
- Resuscitation Logistics and Informatics Venture (ReLIVE) | PI: David Salcido, PhD: October 2016-Present
  - Collect, organize, and manage data for a layperson cardiac arrest alert system in Allegheny County
  - Perform geospatial and statistical analyses and simulations using QGIS, MATLAB, and STATA to achieve our research goals
  - Communicate with community members, health professionals, and government officials about layperson emergency response strategies for various health conditions
- EMS Sleep Health Study | PI: Daniel Patterson, PhD: September 2018-May 2019
  - Help develop methodology for and coordinate a multi-centered research study
  - Construct comprehensive database for survey and text message data using Microsoft Access
- Ambulatory Blood Pressure in EMS Shift Workers | PI: Daniel Patterson, PhD: September 2018-May 2019

- Manage RedCAP database of blood pressure study data
- Perform descriptive and regression analyses of data using SAS and STATA
- Ensure that code for data management and analyses are transcribed to both SAS and STATA

### **Graduate Student Research Assistant**

*University of Pittsburgh Graduate School of Public Health, Public Health Dynamics Lab* | January 2017-Present | PI: Wilhem Van Panhuis, MD, PhD

- Project Tycho
  - Collect and map qualitative data of measles outbreaks and vaccine hesitancy in Europe
  - Analyze vaccine sentiment and vaccine coverage data to determine presence and strength of associations between factors influencing vaccine hesitancy and measles outbreaks
  - Assist in social media outreach for Project Tycho 2.0

### **Lab Manager**

*University of Pittsburgh School of Education, Department of Psychology in Education* | May 2015-October 2016 | PI: Tom Akiva, PhD

- Simple Interactions
  - Collect, organize, and clean video and survey data observing interactions between after-school program workers and students
  - Assist in Quality Assurance measures to maintain accuracy of qualitative scoring
  - Train new research assistants in how to collect data, score videos, and lead professional development courses for after-school program workers

### **Research Intern**

*University of Pittsburgh Graduate School of Public Health* | May 2015-May 2016 | PI: John Shaffer, PhD

- Center for Oral Health Research in Appalachia (COHRA)
  - Test regression models using R
  - Analyze associations between certain SNPs and frequency of dental caries

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### **Professional and Academic Presentations**

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1. **Poster** | Clinic on Meaningful Modeling of Infectious Diseases | Cape Town, South Africa | May 2018 | *Factors Influencing Measles Undervaccination in the European Union: Preliminary Data & Future Directions*. Salerno, JE, Van Panhuis, W.
  2. **Poster** | American Heart Association's Resuscitation Science Symposium | Chicago, IL | November 2018 | *Simulating the Effects of Sudden Cardiac Arrest Responders Embedded in a Marathon Cohort*. Salerno, JE, Willson, C, Weiss, LS, Salcido, DD.
  3. **Oral Presentation** | Future Health Summit | Washington, DC | October 2018 | *Recommendations for the Born This Way Foundation and Drug Enforcement Agency by the University of Pittsburgh Future Public Health Leaders*. Salerno, JE, Simenson, A, Saal-Ridpath, K, Burke, J.
  4. **Poster** | Global Health Open House | Pittsburgh, PA | October 2018 | *How the Health of Colombians Has Been Impacted by Past Conflict and the Current Peace Process*. Salerno, JE.
  5. **Poster** | Infectious Disease and Microbiology Research Day | Pittsburgh, PA | September 2018 | *Preliminary Characterization of Reasons behind Measles Undervaccination in Europe and the United States*. Salerno, JE, Van Panhuis, W.
  6. **Poster** | Safar Symposium | Pittsburgh, PA | May 2018 | *Can AEDs Help Us Stop the Bleed?* Salerno, JE, Weiss, LS, Salcido, DD.
  7. **Oral Presentation** | Resuscitation in Motion Conference | Toronto, ON, CAN | May 2018 | *Can AEDs Help Us Stop the Bleed?* Salerno, JE, Weiss, LS, Salcido, DD.
  8. **Poster** | American Heart Association Research Fellows Day | Pittsburgh, PA | January 2018 | *Associations Between Historical Rates of Bystander CPR and Future PulsePoint Participation*. Salerno, JE, Weiss, LS, Salcido, DD.
  9. **Poster** | American Heart Association's Resuscitation Science Symposium | Anaheim, CA | November 2017 | *Simulation of the Effects of Co-Locating Naloxone with Automated External Defibrillators*. Salerno, JE, Weiss, LS, Salcido, DD.
  10. **Poster** | American Heart Association's Resuscitation Science Symposium | Anaheim, CA | November 2017 | *System Characteristics of PulsePoint in Allegheny County*. Salerno, JE, Weiss, LS, Salcido, DD.
  11. **Speaker** | National Association of City and County Health Officials Conference | Pittsburgh, PA | July 2017 | *Innovations in Out-of-Hospital Cardiac Arrest Care*. Weiss, LS, Salerno, JE, Salcido, DD.
  12. **Poster** | American Heart Association Research Fellows Day | Pittsburgh, PA | January 2017 | *Preliminary System Characteristics of PulsePoint*. Salerno, JE, Weiss, LS, Salcido, DD.

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## Publications

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1. Hajari, H, **Salerno, JE**, Weiss, LS, Menegazzi, J, Karimi, H, Salcido, DD. *Simulating Public Buses as a Mobile Platform for Deployment of Publicly Accessible Automated External Defibrillators*. Prehospital Emergency Care. 2019 May 24. doi: 10.1080/10903127.2019.1623353.
  2. **Salerno, JE**, Willson, CJ, Weiss, LS, Salcido DD. *Myth of the Stolen AED*. Resuscitation. 2019 May 1. Doi: <https://doi.org/10.1016/j.resuscitation.2019.04.036>.
  3. **Salerno JE**, Weiss LS, Salcido DD. *Simulation of the Effects of Co-Locating Naloxone with Automated External Defibrillators*. Prehospital Emergency Care. 2018 Mar 1:1-6. Doi: 10.1080/10903127.2018.1439128.
  4. Salcido, DD, **Salerno, JE**, Weiss, LS. *Development of a free, smartphone-based gaming platform for training laypeople to respond to medical emergencies*. Resuscitation. 2017 Sept; 118:101. Doi: <https://doi.org/10.1016/j.resuscitation.2017.11.025>
  5. Srinivasan S, **Salerno J**, Hajari H, Weiss LS, Salcido DD. *Modeling a novel hypothetical use of postal collection boxes as automated external defibrillator access points*. Resuscitation. 2017 Nov;120:26-30. Doi: 10.1016/j.resuscitation.2017.08.220.
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## Honors and Awards

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- Third Place MPH-MIC Poster Award, Infectious Diseases and Microbiology | September 2018
  - American Heart Association's Young Investigator Award | November 2017
  - Infectious Diseases and Microbiology Bob Yee Scholarship | September 2017
  - CAPA Achievement Award | April 2015
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## Leadership Experience

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- President | Student Public Health Epidemic Response Effort | University of Pittsburgh | April 2019 - Present
- Vice President | Association of Women in Public Health | University of Pittsburgh | April 2019 - Present

- Public Relations Officer | Association of Women in Public Health | University of Pittsburgh | May 2018-April 2019
  - Future Health Leader | George Washington University's Milken Institute | April 2018-May 2019
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## **Professional Memberships**

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- American Public Health Association | September 2017-Present
  - American Heart Association | August 2017-Present
  - Phi Beta Kappa | April 2017-Present
  - National Society of Collegiate Scholars | October 2015 - Present
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## **Service**

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- Peer Reviewer | Resuscitation | 2019
- Peer Reviewer | Prehospital Emergency Care | 2018
- Formal Mentorships
  - Vanessa Mejia, Florida International University | Undergraduate Student
  - Gaelle Tchuem, BS, University of Pittsburgh
  - Connor Willson, University of Pittsburgh | Undergraduate Student
  - Paige Meskers, BS, NREMT-P, University of Pittsburgh
  - Tanner Smida, University of Pittsburgh | Undergraduate Student
  - Chinwe Osigwe, University of Pittsburgh | Medical Student
  - Laura Dytyrt, BS, University of Pittsburgh | MPH Candidate
  - Kelsey Simon, BS, University of Pittsburgh | MPH Candidate
  - Katherine Lyden, BS, University of Pittsburgh | MPH Candidate