

## Jessica Kerr, MPH

jek118@pitt.edu | [LinkedIn Profile](#)

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### Education and Training

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#### Doctor of Philosophy Student in Epidemiology

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

#### Master of Public Health in Infectious Diseases and Microbiology, *summa cum laude*

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

- Contact Tracing Certification | Johns Hopkins University | July 2020
- Summer Institute in Statistics and Modeling in Infectious Diseases, Simulation-based Inference for Epidemiological Dynamics | University of Washington | July 2020
- 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: Harry Hoccheiser, MD, PhD
  - Coordinate a multi-site global network with 800+ members to facilitate research promotion and collaboration
  - Correspond with key agencies during pandemic to organize public health response
  - Extract parameter data from available COVID-19 research to make easily accessible to MIDAS members
  - Supervise graduate student research assistants through data curation process
  - Coordinate MIDAS Latin America and MIDAS Student subgroups
  - Develop and oversee community resources and outreach programs

### 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-December 2019
  - Cleaned and organized data from a large prehospital database using MySQL and STATA
  - Annotated 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-December 2019
  - Collected, organized, and managed data for a layperson cardiac arrest alert system in Allegheny County
  - Performed geospatial and statistical analyses and simulations using QGIS, MATLAB, and STATA

- Communicated 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
  - Helped develop methodology for and coordinated a multi-centered research study
  - Constructed 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
  - Managed RedCAP database of blood pressure study data
  - Performed descriptive and regression analyses of data using SAS and STATA
  - Ensured that code for data management and analyses were transcribed to both SAS and STATA

### **Graduate Student Research Assistant**

*University of Pittsburgh Graduate School of Public Health, Public Health Dynamics Lab* | January 2017-December 2019 | PI: Wilhem Van Panhuis, MD, PhD

- Project Tycho
  - Collected and mapped qualitative data of measles outbreaks and vaccine hesitancy in Europe
  - Analyzed vaccine sentiment and vaccine coverage data to determine presence and strength of associations between factors influencing vaccine hesitancy and measles outbreaks
  - Assisted 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
  - Collected, organized, and cleaned video and survey data observing interactions between after-school program workers and students
  - Assisted in Quality Assurance measures to maintain accuracy of qualitative scoring

- Trained 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)
  - Tested regression models using R
  - Analyzed associations between SNPs and frequency of dental caries

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### **Professional and Academic Presentations**

*Formerly Jessica Salerno*

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1. **Poster** | Epidemics 8 | Virtual | November 2021 | *The Models of Infectious Disease Agent Study (MIDAS) Coordinating Center: 2021 Update* | **Kerr J**, Shadbolt S, Espino J, Levander J, Stazer J, Contamin L, Cross A, Arcury-Quandt A, Pokutnaya D, Hochheiser H.
2. **Poster** | MIDAS Network Annual Meeting | Virtual | May 2021 | *MIDAS COVID-19 Parameter Database Summary*. **Salerno JE**, Stazer JB, Levander JD, Van Panhuis WG.
3. **Poster** | National Association of EMS Physicians | San Diego, CA | January 2020 | *Temporal Availability of Automated External Defibrillators in City of Pittsburgh PulsePoint Dispatches*. **Salerno JE**, Smida T, Weiss LS, Salcido DD.
4. **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.
5. **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.
6. **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.

7. **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.**
8. **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.**
9. **Poster** | Safar Symposium | Pittsburgh, PA | May 2018 | *Can AEDs Help Us Stop the Bleed?* **Salerno JE, Weiss LS, Salcido DD.**
10. **Oral Presentation** | Resuscitation in Motion | Toronto, ON, CAN | May 2018 | *Can AEDs Help Us Stop the Bleed?* **Salerno JE, Weiss LS, Salcido DD.**
11. **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.**
12. **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.**
13. **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.**
14. **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.**
15. **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

Formerly Jessica Salerno

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1. Smida T, **Salerno J**, Weiss L, Martin-Gill C, Salcido D. *PulsePoint dispatch associated patient characteristics and prehospital outcomes in a mid-sized metropolitan area.* Resuscitation. 2021 Nov 5. Doi: 10.1016/j.resuscitation.2021.11.007.

2. Truelove S, Smith CP, Qin M, Mullany LC, Borchering RK, Lessler J, Shea K, Howerton E, Contamin L, Levander J, **Salerno J**... Runge MC, Viboud C. *Projected resurgence of COVID-19 in the United States in July-December 2021 resulting from the increased transmissibility of the Delta variant and faltering vaccination.* MedRxiv. 2021 Sept 2. Doi: 10.1101/2021.08.28.21262748.
3. Rebecca K Borchering, Cécile Viboud, Emily Howerton, Claire P Smith, Shaun Truelove, Michael C Runge, Nicholas G Reich, Lucie Contamin, John Levander, **Jessica Salerno**... Katriona Shea, Justin Lessler. *Modeling of Future COVID-19 Cases, Hospitalizations, and Deaths, by Vaccination Rates and Nonpharmaceutical Intervention Scenarios - United States, April-September 2021.* MMWR Morb Mortal Wkly Rep. 2021 May 14. Doi: 10.15585/mmwr.mm7019e3.
4. Katriona Shea, Rebecca K Borchering, William J M Probert, Emily Howerton, Tiffany L Bogich, Shouli Li, Willem G. van Panhuis, Cecile Viboud.....**Jessica Salerno**, Michael C. Runge. *COVID-19 reopening strategies at the county level in the face of uncertainty: Multiple Models for Outbreak Decision Support.* MedRxiv. 2020 Nov 5. Doi: 10.1101/2020.11.03.20225409
5. Smida, T, Willson, C, **Salerno, JE**, Weiss, LS, Salcido, DD. *Can You Get There from Here? An Analysis of Walkability Among PulsePoint CPR Alert Dispatches.* Resuscitation. 2020 January. Doi: 10.1016/j.resuscitation.2019.12.038.
6. 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.
7. **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>.
8. **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.
9. 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>

10. 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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- Student Representative | Graduate School of Public Health Planning and Budget Committee | September 2020 - Present
  - Committee Member | MIDAS Student Committee | September 2020 - Present
  - President | Student Public Health Epidemic Response Effort | University of Pittsburgh | April 2019 - January 2020
  - Vice President | Association of Women in Public Health | University of Pittsburgh | April 2019 - January 2020
  - 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
  - Phi Beta Kappa | April 2017-Present
  - National Society of Collegiate Scholars | October 2015 - Present
  - American Heart Association | August 2017-August 2019
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## Service

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- Vaccine Educator | Pitt CoVax Vaccine Center | 2021 - Present
- Medical Reserve Corps Volunteer | Allegheny County Health Department | 2020 - Present
- Peer Reviewer | Prehospital Emergency Care | 2018 - January 2020
- Peer Reviewer | Resuscitation | 2019
- Formal Mentorships
  - Vanessa Mejia, Florida International University | Undergraduate Student
  - Gaelle Tchuem, BS, University of Pittsburgh | Summer Researcher
  - Connor Willson, University of Pittsburgh | Undergraduate Student
  - Paige Meskers, BS, NREMT-P, University of Pittsburgh | Summer Researcher
  - Tanner Smida, University of Pittsburgh | Undergraduate Student
  - Chinwe Osigwe, University of Pittsburgh | Medical Student
  - Laura Dytirt, BS, University of Pittsburgh | MPH Candidate
  - Kelsey Simon, BS, University of Pittsburgh | MPH Candidate
  - Katherine Lyden, BS, University of Pittsburgh | MPH Candidate