

## Richard Evans

### Work Address

VA Center for Clinical Management Research  
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### Permanent Address

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## EDUCATION

*Master of Science*, Biostatistics  
University of Michigan School of Public Health  
Ann Arbor, MI

Sept. 2014 - May 2016

*Bachelor of Science*, Biological Sciences  
Wayne State University  
Detroit, MI

January 2009 - May 2012

## PROFESSIONAL EXPERIENCE

### *Data Scientist*

April 2018 -

Center for Clinical Management Research  
VA Ann Arbor Medical Center  
U.S. Dept. of Veteran's Affairs, Ann Arbor, MI

- Data management, analysis and statistical programming for a wide variety of research and operations projects:
  - Data-drive Care for Evaluation and Prevention (DCEP) (P.I. [Laura Damschroder, MS, MPH](#))
  - [Stay Strong: A Physical Activity Program for Afghanistan and Iraq Veterans](#) (P.I. [Laura Damschroder, MS, MPH](#))
  - Structures and Processes of Pre-Surgical Care (P.I. [Erika Sears, MD MS](#))
- Program implementation research using [Qualitative Comparative Analyses](#)
- Lead educational workshops focusing on data and methods relevant to VA projects and commonly encountered research objectives
- Provide statistical consulting and database support to junior colleagues

### *Statistician Intermediate*

May 2016 - March 2018

University of Michigan School of Public Health  
Dept. of Epidemiology, Ann Arbor, MI

- Collaborated with **Center of Disease Control and Prevention** (CDC) to perform analytical programming, data management, quality control and reporting for Influenza vaccination effectiveness research projects ([HIVE](#), [HAIVEN](#), [US Flu VE](#)) under investigators [Arnold Monto](#) and [Emily Martin](#)
- Interpreted analyses for methods sections in abstracts, grants and manuscripts
- Using simulations implemented in **R** and other software, derived sample size and power estimates for **NIH** and **CDC** grant applications
- Provided statistical consulting and database support to graduate students

### *Graduate Research Assistant*

September 2014 - April 2016

University of Michigan School of Public Health  
Dept. of Epidemiology, Ann Arbor, MI

- Aided in infectious disease research under the direction of [Prof Emily Martin](#)

- Built and managed databases in **REDCap** software and Excel
- Prepared reports describing statistical analyses, presenting findings to study investigators
- Consulted statistical literature to address research hypotheses
- Performed literature review and data collection for meta-analyses regarding the risk of surgical infections in Diabetics

*Research Associate*

June 2015 - October 2015

University of Michigan

Dept. of Psychiatry, Ann Arbor, MI

- Provided data management and statistical analyses for the CDC-funded randomized controlled prevention study, Links to Enhancing Teens' Connectedness, **LET'S CONNECT**, led by **Dr. Cheryl King**
- Performed internal consistency analysis of psychometric tests and hierarchical modelling of survey results

*Research Assistant*

Mar 2013 - August 2014

Wayne State University

College of Pharmacy and Health Sciences, Detroit, MI

- Medical chart audit and data collection for **Pfizer** and **NIH** funded retrospective and prospective pharmacoepidemiology studies
- Queried and analyzed large (20 billion record, 1000+ variable) medical insurance claims (**MarketScan**<sup>TM</sup>) and healthcare databases in SAS and Stata
- Co-wrote abstracts, posters, and manuscripts for scientific conferences and journals

## WEBSITES

- LinkedIn: [rich-evans](#)
- Github: [rrevansUM](#)
- Bookdown: [rrevansum.github.io](#)

## PEER-REVIEWED PUBLICATIONS

### Articles

Arnold S Monto, Ryan E Malosh, **Richard Evans**, Adam S Luring, Aubree Gordon, Mark G Thompson, Alicia M Fry, Brendan Flannery, Suzanne E Ohmit, Joshua G Petrie, Emily T Martin, HIVE Study Research Staff, Data resource profile: Household Influenza Vaccine Evaluation (HIVE) Study, International Journal of Epidemiology, Volume 48, Issue 4, August 2019, Pages 1040–1040g, <https://doi.org/10.1093/ije/dyz086>

Buis LR, McCant FA, Gierisch JM, Bastian LA, Oddone EZ, Richardson CR, Kim HM, **Evans R**, Hooks G, Kadri R, White-Clark C, Damschroder LJ. Understanding the Effect of Adding Automated and Human Coaching to a Mobile Health Physical Activity App for Afghanistan and Iraq Veterans: Protocol for a Randomized Controlled Trial of the Stay Strong Intervention. JMIR Res Protoc 2019;8(1):e12526; URL: <https://www.researchprotocols.org/2019/1/e12526>; DOI: 10.2196/12526; PMID: 30694208; PMCID: 6371069

Fitzsimmons WJ, Woods RJ, McCrone JT, Woodman A, Arnold JJ, Yennawar M, et al. (2018) A speed–fidelity trade-off determines the mutation rate and virulence of an RNA virus. PLoS Biol 16(6): e2006459. <https://doi.org/10.1371/journal.pbio.2006459>

Segaloff, HE, **Evans R**, Arshad, S, et al. The impact of obesity and timely antiviral administration on severe influenza outcomes among hospitalized adults. *J Med Virol*. 2018; 90: 212– 218. <https://doi.org/10.1002/jmv.24946>

Sutcliffe K, Kilgore PE, DeHoff K, **Evans R**, Kaye KS, Malosh RE, Sherwin R, Martin ET. Survey of vaccination knowledge and acceptance among adults admitted to an urban emergency department. *Vaccine*. 2017 Feb 22;35(8):1148-1151

**Evans R**, Loeb A, Kaye KS, Cher ML, Martin ET. Infection-Related Hospital Admissions After Prostate Biopsy in United States Men. *Open Forum Infect Dis*. 2017 Jan 13;4(1):ofw265 PMID: 28480258

Navalkele B, Pogue JM, Karino S, Nishan B, Salim M, Solanki S, Pervaiz A, Tashtoush N, Shaikh H, Koppula S, Koons J, Hussain T, Perry W, **Evans R**, Martin ET, Mynatt RP, Murray KP, Rybak MJ, Kaye KS. Risk of Acute Kidney Injury in Patients on Concomitant Vancomycin and Piperacillin/tazabactam Compared to Those on Vancomycin and Cefepime. *Clinical Infectious Diseases*. 2016 Oct 20.

Martin ET, Kaye KS, Knott C, Nguyen H, Santarossa M, **Evans R**, Beltran E, Jaber L. Diabetes and Risk of Surgical Site Infection: A systematic review and meta-analysis. *Infection Control & Hospital Epidemiology*. 2016 Jan;37(1):88-99.

## Abstracts, Posters, Seminars

Hanslits K, **Evans R**, Konja M, Sutcliffe K, Kim J, Salim M, Salzman E, Kaye KS, Martin ET. Risk factors for MRSA-VRE coinfection among hospitalized adult. IDWeek 2016. New Orleans, Louisiana.

Martin ET, **Evans R**, Compton M, Pogue JM, Lephart P, Rybak MJ, Kaye KS, Davis SL. All-cause readmission following treatment with linezolid for MRSA- ABSSSI: a propensity score analysis. Poster Presentation. IDWeek 2015, San Diego, CA.

Martin ET, **Evans R**, Archer C, Petrie J, Arshad S, Kaye KS. Influenza, obesity and timely administration of oseltamivir: a prospective study of patient outcomes. Poster Presentation. IDWeek 2015, San Diego, CA.

**Evans R**, Archer C, Jaber L, Kaye KS, Rybak M, Davis SL, Martin ET. Epidemiology of Polymicrobial Infections in Methicillin Resistant Staphylococcus aureus Associated Complicated Skin and Soft Tissue Infections (Poster). Society for Epidemiologic Research Annual Meeting, 2014. Seattle, Washington.

Martin ET, Compton M, **Evans R**, McRoberts JP, Arrabi L, Pasha A, Lephart P, Rybak MJ, Kaye KS. Molecular Epidemiology of MRSA and VRE Co-colonization among Hospitalized Adults in Detroit (Poster). IDWeek. 2014. Philadelphia PA.

**Evans R**, Loeb A, Cher ML, Kaye KS, Martin ET. Infection-related Hospital Readmissions Following Prostate Biopsy in United States Men (Poster). IDWeek. 2014. Philadelphia, PA.

Martin ET, McRoberts JP, Divekar P, **Evans R**, Hill B, Archer C, Kaye KS, Rybak, MJ. Prevalence of pSK41 plasmid among patients with MRSA and VRE dual infection. 53rd Interscience Conference on Antimicrobial Agents and Chemotherapy (Poster). 2013. Denver, Colorado.

Archer C, **Evans R**, Davis SL, Pogue JM, Rybak MJ, Kaye KS, Martin ET. Decreasing MRSA prevalence among ABSSSI-associated hospitalization in the Detroit Metropolitan area, 2006-2012. 53 nd Interscience Conference on Antimicrobial Agents and Chemotherapy (Poster). 2013. Denver, Colorado.

Martin ET, Archer C, **Evans R**, Biedron C, Collins V, McRoberts JP, Thurston T, Kulik J, Arshad S, Kilgore P, Kaye KS. Influenza and Obesity: A prospective study of patient outcomes and antiviral resistance (Poster). American Association of Colleges of Pharmacy Annual Meeting: Pharmacy Education 2013. Chicago, IL.

## COMPUTING

### Analytic Software

#### Adept:

R • Rstudio • SAS

#### Proficient:

STAN

#### Familiar:

C++ • Python • Stata

SPSS • MATLAB • Simulink

### Database Software

SQL • mySQL

Access • Excel

REDCap

### Reporting Software

L<sup>A</sup>T<sub>E</sub>X

R Markdown (slides, HTML, PDF)

Microsoft Office Suite