Travis Gerke, ScD

EPIDEMIOLOGIST • DATA SCIENTIST • STATISTICIAN

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Education

Summary: I am jointly trained as a statistician and epidemiologist. I apply these skills as a data science leader to guide data collection strategies (epidemiology) that will enable optimal insights and robust decision-making from downstream consumption (statistical translation).

Harvard School of Public Health   *Boston, MA*

DOCTOR OF SCIENCE (ScD), EPIDEMIOLOGY   *2014*

Harvard University   *Cambridge, MA*

MASTER OF ARTS (AM), BIOSTATISTICS   *2011*

University of Florida   *Gainesville, FL*

BACHELOR OF SCIENCE (BS), STATISTICS   *2009*
BACHELOR OF ARTS (BA), MATHEMATICS   *2009*

Experience and impact

Summary: My career as a quantitative scientist spans not only the traditional principal investigator role, but also includes administrative leadership in the data science domain. I have led or collaborated on 14 successful grant applications, many of which helped drive my 70+ peer-reviewed manuscripts published or under review. My team science efforts have resulted in over 60 scientific conference presentations, both nationally and internationally. I have also led or co-developed 5 scientific software releases.

H. Lee Moffitt Cancer Center & Research Institute   *Tampa, FL*

ASSISTANT MEMBER, DEPARTMENT OF CANCER EPIDEMIOLOGY   *2016–present*

- Direct academic research lab with emphasis in: (i) developing modernized data science workflows for molecular epidemiology research; (ii) causal inference for decision science and real world evidence studies; (iii) reproducible data science frameworks

SCIENTIFIC DIRECTOR, COLLABORATIVE DATA SERVICES

- Provide scientific and technical leadership for Moffitt's research data provisioning hub. Key initiatives include: (i) transition a traditionally Excel-based data group to modern R frameworks with git versioning; (ii) enhance interfacing with biostatistics/bioinformatics end-users to deliver analytically-ready data

University of Florida   *Gainesville, FL*

ASSISTANT PROFESSOR, DEPARTMENT OF EPIDEMIOLOGY   *2014–2016*

- Direct research lab with emphasis in: (i) machine learning in studies of gene expression; (ii) methods for high-dimensional data reduction

Harvard School of Public Health   *Boston, MA*

STATISTICIAN I / RESEARCH DATA ANALYST, DEPARTMENT OF EPIDEMIOLOGY   *2011–2014*

- As lead statistician in an epidemiology lab, ensure appropriate application of statistical methods and provide accompanying mentorship of students/postdocs as needed; as research data analyst, assist with manuscript and grant development

Dana-Farber Cancer Institute   *Boston, MA*

RESEARCH DATA ANALYST, DEPARTMENT OF BIOSTATISTICS   *2012–2013*

- Lead Python developer in a collaboration with the Google Earth team to estimate public health impacts of global glacier retreat

Department of Veterans Affairs   *Gainesville, FL*

RESEARCH DATA ANALYST, REHABILITATION OUTCOMES RESEARCH CENTER   *2008–2009*

- Perform SAS-based econometric health-care delivery analyses

Leadership, advisory roles, and outreach

Summary: teaching activities

- Thing 1
- Thing 2
- Thing 3

Technical experience

- Thing 1
- Thing 2
- Thing 3