Jennifer L. Thompson, MPH

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Biostatistician & data scientist experienced in clinical research. Enthusiastic about collaboration, inference, reproducible research, communication, growth, and applications that make an impact.

EXPERIENCE

VANDERBILT UNIVERSITY MEDICAL CENTER
DEPARTMENT OF BIOSTATISTICS
Biostatistician IV, September 2015 - present
Biostatistician III, May 2008 - August 2015
Biostatistician II, June 2005 - April 2008

Primary statistician in the Center for Critical Illness, Brain Dysfunction & Survivorship. The CIBS Center is at the forefront of our research area, working to describe, understand, and improve in- and post-hospital outcomes for patients and families who experience acute critical illness.

- Analyze data from studies involving missing and longitudinal data; multinomial, skewed, and survival/time-to-event outcomes with time-varying covariates and competing risks
- Conduct, alongside clinical team, prospective cohort studies and clinical trials, as well as retrospective research using electronic medical records
- Develop and execute statistical analysis plans
- Work with 10 principal investigators & support staff at all study phases, managing/prioritizing concurrent projects
- Develop and implement efficient systems for study monitoring and data cleaning
- Emphasize reproducible research and effective communication for audiences with varying levels of statistical expertise, interest
- Co-authored 45 publications in critical care and related areas
- Spearhead efforts toward transparency, open science
- Supervised/mentored junior statisticians, database managers
- First staff promoted to senior biostatistician IV position; named by department leadership to inaugural staff council for VUMC Institute of Medicine & Public Health

SOCIETY OF CRITICAL CARE MEDICINE
ICU LIBERATION INITIATIVE
Statistician, October 2015 - October 2018

Contract work with nationwide quality improvement project to implement & assess clinical impact of the ABCDEF ICU Liberation Bundle. Developed & executed statistical analysis plan. Provided monitoring reports during implementation, worked with clinical authors on outcomes manuscript.

LINKS

Web: jenthompson.me
GitHub: jenniferthompson
LinkedIn: jennifer-thompson-mph

PROGRAMMING

- **R** for statistical analysis, reproducible research, visualization, data management
  - Authored two packages available on Github
  - Experience with Shiny/Shiny dashboards, flexdashboards
  - Teaching experience: ggplot2, tidyverse packages, RMarkdown
- **REDCap** for electronic data storage
- **Git/GitHub** for version control
- **Markdown, LaTeX**
- Previous experience in SAS, C++

COMMUNITY

- **R-Ladies Global**
  Co-founder/organizer, Nashville chapter; global coordinator, abstract review program
- **rOpenSci**
  Package reviewer, unconference participant
- **Data for Democracy**
  Volunteer, former project lead
- **The Living Water Project**
  Board member

EDUCATION

2005	**Master of Public Health in Biostatistics** UNC-Chapel Hill Gillings School of Global Public Health
2002	**Bachelor of Arts in Mathematics** Harding University *Minors: Spanish, English, management*