

# 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.

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## 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 - present

Contract work with nationwide quality improvement project to implement and assess clinical impact of the ABCDEF ICU Liberation Bundle. Developed and executed statistical analysis

## LINKS

**Web:** jenthompson.me

**GitHub:** jenniferthompson

**LinkedIn:** jennifer-thompson-mp

## 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

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| 2005 | <b>Master of Public Health in Biostatistics</b><br>UNC-Chapel Hill Gillings School of Global Public Health |
| 2002 | <b>Bachelor of Arts in Mathematics</b><br>Harding University   |