

# Weiliang Cen

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Biostatistician at USF's SDDA Team with experience in clinical trials, statistical consulting, and publication support. Proficient in study design, advanced analysis (R, SAS, Python, SQL, Mplus, SPSS), and data visualization.

## Education

University of South Florida   PhD in Biostatistics	(Expected) Aug 2025
University of South Florida   MPH in Biostatistics	Dec 2017

## Skills

**Languages/tools:** R, SAS, STATA, Python, MPLUS, SQL, SPSS, Shell Scripting, Linux, Unix, Qualtrics, REDCap, Excel.

**Analysis:** Clinical trial, Survival analysis, Regression Analysis, Longitudinal analysis, Mixed Model, SEM/IRT, Bayesian analysis, Generalized linear mixed models (GLMM), Power and Sample Size estimation.

**Publications:** 5 peer-reviewed publications, 2 manuscripts under review, 25 citations [Google Scholar](#).

## Experience

**Biostatistician** | SDDA Team, University of South Florida Jan 2021 – Present

- Collaborated with faculty and physicians on statistical analysis plans (SAPs), protocol development, study design, sample size estimation and randomization.
- Utilized R and SAS to clean, manage, and analyze large clinical datasets (Qualtrics and REDCap).
- Created publication-ready tables, figures and visualizations for peer-reviewed manuscripts.
- Led data analysis and manuscript preparation for clinical studies on post-stroke PTSD and dementia with physicians (Tampa General Hospital), both published in peer-reviewed journals.
- Lead Biostatistician for NIH R01 clinical trial (R01CA243800): database management, data analysis, randomization of participants and regulatory reporting (CONSORT diagram, DSMB reports), currently on-going.

**Instructor** | College of Public Health, University of South Florida Jan 2020 – Present

- Taught over 500+ students: Introduction to Epidemiology and Introduction to Biostatistics.

**Statistical Data Analyst** | CFS, University of South Florida Jan 2018 – Dec 2019

- Wrote SAS macros automating query for data management such as cleaning, merging and analyses.
- Maintained multi-clinical trial databases across states and created guidelines for data dictionaries.
- Optimized script for data retrieval from large multi-clinical databases by reducing fetch time from 30 to 1 minute.
- Automated complex latent models using shell scripts on Linux research clusters for long-running analyses, contributing to a publication in the high-impact Journal of Educational Psychology.

## Publications (Selected)

- **Cen, W.**, Sahay, S.S., & Chen, H. (2025). 57.9% of NIH-funded completed clinical trials do not report results. *The Lancet Regional Health - Americas*. (In Review).
- Lu, Y., **Cen, W.**, Wang, W., Huang, Y., & Chen, H. (2023). How big is a big hazard ratio in clinical trials. *International Journal of Clinical Trials*, 10, 195–200.
- Anthony, J., Chen, I., Williams, J., **Cen, W.**, & Erazo, N. (2021). US children's understanding of the English alphabet: Its acquisition, conceptualization, and measurement. *Journal of Educational Psychology*, 113(6), 1073.
- Renati, S., Raju, S.,..., **Cen, W.**, Rose, D.Z., & Burgin, S. (2023). Impact of Post-Stroke Post-Traumatic Stress Disorder. *The Neurohospitalist*, 11 (3).

## Certification/Awards

- SAS Certified Advanced Programmer for SAS 9.