

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) August 2025
University of South Florida MPH in Biostatistics	Dec 2017

Skills

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

Analysis: Clinical trial, Survival analysis, Regression, Longitudinal analysis, Mixed Model, SEM/IRT, Bayesian analysis.

Publications: 5 peer-reviewed publications, 2 manuscripts under review, 21 citations [Google Scholar](#).

Experience

Biostatistician | Study Design and Data Analysis Team, University of South Florida Jan 2022 – Present

- Collaborated with faculty and physicians on statistical analysis plans (SAPs), study design and sample size.
- 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 statistical analysis for 2 clinical studies with Tampa General Hospital.
 - Post-Stroke and PTSD study, published in the journal *The Neurohospitalist*.
 - Dame Detect Study on dementia research, in submission *The American Journal of Medicine*.
- Lead Biostatistician for R01 clinical trial (R01CA243800 NCI, NIH): Conducted statistical analyses and prepared CONSORT and DSMB reports for study addressing disproportionate smoking rates among people with HIV.

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

- Taught the following courses with full responsibility: Introduction to Epidemiology, Introduction to Biostatistics, Introduction to Environmental and Occupational Health.

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

- Wrote SAS macros to automate cleaning, merging and analysis.
- Developed Python script optimizing data retrieval from 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. Submitted to *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. [7 citations].
- 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. [9 citations].
- Renati, S., Raju, S., ..., Cen, W., Rose, D.Z., & Burgin, W.S. (2023). Impact of Post-Stroke Post-Traumatic Stress Disorder. *The Neurohospitalist*. [1 citation].

Certification/Awards

- SAS Certified Advanced Programmer for SAS 9.
- Student Honorary Award for Research.
- APHA Conference, Oral presenter 2017 Denver.