Chase Sakitis, MS
Graduate Research Assistant

✉ csakitis@gmail.com   📞 (484) 554-6834   📍 Oak Creek, WI

↖ https://mssc.mu.edu/~csakitis/

🎓 Education

Ph.D. Computational Sciences, *Marquette University*
2021 – present | Milwaukee, WI

M.S. Applied Statistics, *Marquette University*
2020 – 2020 | Milwaukee, WI

B.A. Mathematics, *Bloomsburg University*
2014 – 2018 | Bloomsburg, PA

✏️ Technical Skills

MATLAB | Data Analysis | R

Bayesian Statistics | MS PowerPoint

Python | Machine Learning

MS Excel | Mathematical Modeling

HTML Coding | Regression Analysis

Word Processing

💼 Experience

Marquette University

08/2023 – present Milwaukee, WI	*MATH 1700 Student Success Coordinator* - Organize weekly review sessions for all MATH 1700 students - Meet one-on-one with students that require extra guidance for success in the course - Create practice and homework assignments to establish uniformity between MATH 1700 sections
05/2023 – 08/2023 Milwaukee, WI	*Summer Research Assistantship* - Testing performance of BGRAPPA in fMRI with a simulation study
08/2022 – 05/2023 Milwaukee, WI	*Graduate Teaching Assistant* - MATH 1700 - Modern Elementary Statistics - MATH 1700H - Honors Modern Elementary Statistics
05/2022 – 08/2022 Milwaukee, WI	*Computational Sciences Summer Research Fellowship* - Further investigated the BSENSE technique using real-world fMRI experimental data with comparisons to SENSE - Derived a Bayesian method to GRAPPA image reconstruction - BGRAPPA
08/2021 – 05/2022 Milwaukee, WI	*Graduate Research Assistant* - Applied BSENSE to an fMRI simulation study, performing extensive statistical analysis on reconstructed images and task detection - Analyzed real-world fMRI experimental data to understand and prepare for the application of BSENSE image reconstruction

05/2021 – 08/2021 Milwaukee, WI	*Computational Sciences Summer Research Fellowship* - Developed a Bayesian approach to SENSE image reconstruction - BSENSE
08/2020 – 05/2021 Milwaukee, WI	*Graduate Teaching Assistant* - MATH 4720 - Statistical Methods
05/2019 – 08/2020 Milwaukee, WI	**Starbucks Coffee Company,** *Shift Supervisor* - Delegated tasks and oversaw baristas for maximum efficiency - Assisted in inventory demands and organization - Ensured customers were satisfied with their purchases or services
11/2013 – 04/2019 Bath, PA	**Key Ingredient Market,** *Assistant Plant Manager* - Collaborated with the owner on the entire production - Trained and directed newly hired employees for respective positions

Research

Current Work

Developing Bayesian techniques that formally incorporate prior information to reconstruct subsampled functional magnetic resonance imaging data.

Publications

Journal

- **Sakitis CJ**, Rowe DB: *A Bayesian Approach to GRAPPA Image Reconstruction* (Status: In Preparation)
- **Sakitis CJ**, Brown AD, Rowe DB: *A Bayesian Approach to SENSE Parallel Image Reconstruction Produces Increased Accuracy in Detection of Task Activation* (Status: Submitted)

Conference

- **Sakitis CJ**, Rowe DB: *Formal Bayesian Approach to GRAPPA Image Reconstruction.* Proc. Joint Stat. Meet., Section on Imaging, Toronto Ontario, Canada, 2023 (Forthcoming)
- **Sakitis CJ**, Rowe DB, Brown DA: *A Full Bayesian Approach to SENSE Image Reconstruction Increases Brain Tissue Contrast and Reduces Noise for More Accurate Statistical Analysis.* Proc. Joint Stat. Meet., Section on Imaging, 26:1380-1398, Washington DC, 2022
- **Sakitis CJ**, Rowe DB, Brown DA: *A Formal Bayesian Approach to SENSE Image Reconstruction.* Proc. Joint Stat. Meet., Section on Imaging, 25:1332-1358, Virtual, 2021.

Awards

S.J. Merrill Award: Best Teaching Assistant,
Klinger College of Arts & Sciences, Marquette University
2021

Memberships

- American Statistical Association
- International Society for Bayesian Analysis
- Honor Society of Phi Kappa Phi
- Kappa Mu Epsilon Mathematical Honor Society