

# Sithija Manage

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## EDUCATION

2022 - 2027      Ph.D. in Statistics  
Cornell University, Ithaca, NY

2019 - 2022      B.S. in Applied Mathematical Sciences  
Texas A&M University, College Station, TX  
GPA: 4.0

### Relevant Coursework:

Mathematics of Deep Learning, Understanding Machine Learning, Causal Inference & Machine Learning, Bayesian Statistics & Data Science  
Statistical Computing, Probability Theory, Mathematical Statistics, Multivariate Analysis

## RESEARCH EXPERIENCE

2025 - Present      Visiting Graduate Student Researcher  
Harvard University Department of Biostatistics  
Advisor: Curtis Huttenhower

2023 - Present      Graduate Student Researcher  
Cornell University Department of Statistics and Data Science  
Advisors: Martin Wells, Sam Wang

2021 - 2022      Undergraduate Student Researcher  
Texas A&M University Department of Mathematics  
Advisor: Sai-Mang Pun

2021 - 2021      Undergraduate Student Researcher  
University of North Carolina at Greensboro Department of Mathematics and Statistics  
Advisor: Xiaoli Gao

2020 - 2021      Undergraduate Student Researcher  
Texas A&M University Department of Mathematics  
Advisor: Wencai Lu

## HONORS AND AWARDS

2025	Cornell Graduate School Research Travel Grant - (Harvard Biostatistics) \$1,600
2024-2025	National Institutes of Health (NIH) Artificial Intelligence and Precision Nutrition T32 Training Grant - Cornell University - NIH \$50,995 (to date)
2019-2023	Presidents Endowed Scholarship – Texas A&M University
2021-2022	William A. Triche Scholarship – Texas A&M University College of Science \$45,000
2020	Dr. Walter E. Koss Endowed Scholarship - Texas A&M Department of Mathematics \$2,000
2019	National Merit Finalist
2018	Academy Mathematics Student of the Year - Selected by Board of Academy Staff
2016-2017	American Statistical Association Special Award – State-level and Regional Science Fairs

## PUBLICATIONS

### Peer-Reviewed Manuscripts

- [1] Sarkar, R., **Manage, S.**, and Gao, X., “Stable Variable Selection for High-Dimensional Genomic Data with Strong Correlations,” *Annals of Data Science*, Jun. 2023. DOI: <https://doi.org/10.1007/s40745-023-00481-5>.
- [2] **Manage, S.**, “Neural Network Approach to NFL Position Classification,” *SIAM Undergraduate Research Online*, vol. 15, Jul. 2022. DOI: [10.1137/21S1444485](https://doi.org/10.1137/21S1444485).
- [3] Hatinoğlu, B., Eakins, J., Frendreiss, W., **Manage, S.**, Lucille, L., and Puente, A., “Ambarzumian-type Problems for Discrete Schrödinger Operators,” *Complex Analysis and Operator Theory*, no. 15, p. 118, Oct. 2021. DOI: <https://doi.org/10.1007/s11785-021-01169-5>.

### Manuscripts in Preparation

- [4] **Manage, S.**, Wang, S., and Wells, M., “Nonparametric Regression via Tree-Guided Feature Aggregation,” 2026, Manuscript in preparation.
- [5] **Manage, S.**, Accorsi, E., Nearing, J., Ma, S., Franzosa, E., and Huttenhower, C., *Effect-size Estimation and Confounding-Aware Permutations for PERMANOVA*, Manuscript in preparation, 2026.

## PRESENTATIONS

### Oral

- [1] *Kernel Regression with Tree-Exploring Aggregations for Microbiome Analysis*, Harvard Medical School/Brigham and Women’s Hospital - Georg Gerber Lab, Feb. 2026.
- [2] *Effect-Size Estimation and Confounding-Aware Permutations for PERMANOVA*, Department of Biostatistics at Harvard University - Curtis Huttenhower Lab, Feb. 2026.
- [3] *Modern Statistical Tools for Microbiome Data Analysis*, Sam Houston State University Department of Mathematics and Statistics Seminar, Oct. 2025.
- [4] *Causal Inference for Microbiome Data*, Department of Biostatistics at Harvard University - Curtis Huttenhower Lab, Oct. 2025.

- [5] *Stable Variable Selection for High-Dimensional Genomic Data with Strong Correlations (3rd place - Engineering/Math Category)*, American Medical Student Association Research Symposium, 2021.

### Poster

- [1] *Kernel Regression with Tree-Exploring Aggregations*, Celebration of Statistics and Data Science, Cornell University, Sep. 2025.
- [2] *Kernel Regression with Tree-Exploring Aggregations*, Joint Statistical Meetings (JSM), Aug. 2025.
- [3] *Kernel Regression with Tree-Exploring Aggregations*, Harvard Chan Microbiome in Public Health Symposium, May 2025.
- [4] *Complexities of Causal Compositional Data Analysis*, Celebration of Statistics and Data Science, Cornell University, Sep. 2024.
- [5] *Complexities of Causal Compositional Data Analysis*, Joint Statistical Meetings (JSM), Aug. 2024.
- [6] *Ambarzumian- type Problems for Discrete Schrödinger Operators*, TX-LA Undergraduate Math Conference, Aug. 2020.

### SOFTWARE

#### rPGBS

Publicly available R package for rPGBS (Stable Variable Selection for High-Dimensional Genomic Data with Strong Correlations).

### TEACHING EXPERIENCE

Break Through Tech Artificial Intelligence (AI), Cornell Tech, Head TA (Summer 2023, Summer 2024, Summer 2025, Summer 2026)

Break Through Tech Artificial Intelligence (AI), Cornell Tech, Machine Learning Course Development Consultant (Spring 2024)

Introductory Statistics for Biology, Cornell University, Head TA (Fall 2022, Spring 2023, Fall 2023)

### SERVICE

Cornell Statistics Graduate Society Student-Faculty Liaison (2023-Present)

Cornell Advanced Graduate Teaching Cohort, Member (2022-Present)

### PROFESSIONAL MEMBERSHIPS

American Statistical Association (2021 - Present)