

Caleb Xavier Bugg

Part-Time Instructor
Georgia State University, Perimeter College
Decatur, GA 30034

Website: www.calebxb.com
Email: cbugg@gsu.edu
Citizenship: United States of America (USA)

Current Appointments

Georgia State University, Decatur Campus
Department of Mathematics
Part-time Instructor
January 2026 - present

Education

Ph.D. Operations Research, The University of California, Berkeley, 2022.
Designated Emphasis in Development Engineering
M.S. Operations Research, The University of California, Berkeley, 2018.
B.S. Mathematics, Morehouse College, 2017.
Minor in Economics

Previous Appointments

The Georgia Institute of Technology
Jerry and Harriet Theusen Postdoctoral Fellow
H. Milton Stewart School of Industrial and Systems Engineering
Center for Health and Humanitarian Systems
2022–2024

The American Institute for Economic Research (AIER)
Visiting Scholar (Graduate Level)
“Engineering Insights for a Free-Market Economy”
Advisor:
Summer 2021

Argonne National Laboratory (ANL)
Givens Fellow (Graduate-Level)
“Biobjective Optimization with Chance Constraints”
Advisor: Dr. Massey Washington
Summer 2019

Publications

Peer-Reviewed Journal Articles

Bugg, Caleb, and Anil Aswani. "Logarithmic sample bounds for Sample Average Approximation with capacity-or budget-constraints." *Operations Research Letters* 49.2 (2021): 231-238. [Publication link](#).

Conference Papers

Bugg, Caleb, Chen Chen, and Anil Aswani. "Nonnegative tensor completion via integer optimization." *Advances in Neural Information Processing Systems* 35 (2022): 10008-10020. [Publication link](#).

Academic Awards

NSF Research Traineeship (NRT) Fellow

NSF Innovations at the Nexus of Food, Water, and Energy Systems (InFEWS)

Spring 2020-Spring 2022

Invited Talks

The Centers for Disease Control and Prevention (CDC): Healthy Food Environments

"Implementing FSGs is Beneficial for Human and Planetary Health"

October 2023

Conferences

2026 National Society of Black Engineers (NSBE) National Conference

Reaching :: Everywhere, Inc.

March 2026

2025 Black Entrepreneurship Research Symposium

Hosted by The Center for Black Entrepreneurship

November 2025

2025 INFORMS Annual Conference

Reaching :: Everywhere, Inc.

October 2025

2024 Blackwell-Tapia Conference

"Stochastic Optimization: Complexity-Based Analysis and Development Engineering"

Institute for Computational and Experimental Research in Mathematics (ICERM)

November 2024

Research Interests

data science, operations research and management, food & nutrition policy, nonprofit management

Teaching Experience

Georgia State University, Part-time Instructor (PTI)

Service and Memberships

National Society of Black Engineers (NSBE)

Member

Spring 2019-Present

National Association of Mathematicians (NAM)

Member

Fall 2016-Present

Last updated: May 6, 2026