

Alexander Jay Brower

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Education

University of Georgia <ul style="list-style-type: none">• Advisor: Weiwei Hu• GPA: 3.89/4.0	Aug 2022 - May 2027 (Expected)
University of South Florida , BA in Pure Mathematics <ul style="list-style-type: none">• GPA: 3.9/4.0	Aug 2019 – May 2022

Research Interests

- Optimal control of partial differential equations
- Control of data exchange via boundaries
- Mathematical control theory of network-transport systems
- Numerical approximation to solutions of control problems

Conferences/Papers

Invited Talk at SIAM Conference on Control and Its Applications	July 2025
<i>Boundary Control for Optimal Data Exchange</i> , Estimation and Control of PDE systems Minisymposium	
Boundary Control for Optimal Data Exchange	Nov 2024
Daniel Owusu Adu, <i>Alexander Brower</i> , Weiwei Hu, Zhaiming Shen	
<i>Submitted</i>	
Optimal Time Scheduling	<i>In Progress</i>
Daniel Owusu Adu, <i>Alexander Brower</i> , Weiwei Hu, Haoning Wu	

Teaching/Service

University of Georgia
<ul style="list-style-type: none">• MATH1113 - Precalculus x2, <i>Instructor of Record</i>, Spring 2025• MATH1113 - Precalculus x2, <i>Instructor of Record</i>, Fall 2024• MATH2250 - Calculus I for Science and Engineering, <i>Instructor of Record</i>, Spring 2024• MATH1113 - Precalculus, <i>Instructor of Record</i>, Fall 2023• MATH4700 - Qualitative ODES, <i>Grader</i>, Fall 2023• MATH4600 - Probability, <i>Grader</i>, Spring 2023• MATH3300 - Applied Linear Algebra, <i>Grader</i>, Fall 2022• <i>Tutor for Math Study Hall</i>, Fall 2022/Spring 2023/Spring 2024
University of South Florida
<ul style="list-style-type: none">• MAA4211 - Intermediate Analysis 1, <i>Grader</i>, Spring 2022• <i>Tutor in Academic Success Center</i>, Fall 2021/Spring 2022

Programming

Languages: MATLAB, Maple