

BRANDON S. SWEETING

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Research Interests

· Harmonic Analysis · Bellman Functions · Singular Integral Operators · Sharp Estimates · BMO
· Dyadic Analysis · Best Constants · Weights · Factorization Theory · Extrapolation Theory

Education

PhD in Mathematics Aug 2014 – Aug 2021
University of Cincinnati, Cincinnati, OH
Dissertation Advisor: Leonid Slavin
Dissertation Title: *Novel Bellman Estimates for A_p Weights*

BA in Mathematics Aug 2011 – July 2014
University of South Florida, Tampa, FL
Summa Cum Laude

Appointments

Postdoctoral Researcher Fall 2021 – Present
University of Alabama, Tuscaloosa, AL

Publications

L. Slavin, B. Sweeting, “Non-Infinitesimal Bellman functions and dyadic A_2 weights”, *In Preparation*.
L. Slavin, B. Sweeting, “The John-Nirenburg Constant for $BMO^p, 0 < p < 1$ ”, *In Preparation*.

Conference Talks

AMS Spring Central Sectional Meeting 17 April 2021
hosted virtually by the American Mathematical Society
New Estimates for Dyadic Carleson Sequences

Ohio River Analysis Meeting (ORAM) 2021 20 March 2021
hosted virtually by the University of Kentucky
The John-Nirenburg Constant for $BMO^p, 0 < p < 1$

Southeast Analysis Meeting (SEAM) 2021 13 March 2021
hosted virtually by the University of Florida
New Estimates for Dyadic Carleson Sequences

Seminars & Colloquia

Analysis Seminar at University of Alabama
Novel Bellman Estimates for A_p Weights

29 January 2021

Teaching Experience

Graduate Teaching Assistant at University of Cincinnati – Instructor of Record

- Introduction to Mathematical Reasoning (online) Summer 2021
- Introduction to Mathematical Reasoning (online) Spring 2021
- Foundations of Quantitative Reasoning (online) Fall 2020
- Mathematics of Social Choice (online) Summer 2020
- Mathematics of Management Science Spring 2020
- Mathematics of Social Choice (online) Fall 2019
- Mathematics of Social Choice (online) Summer 2019
- Mathematics of Management Science Spring 2019
- Mathematics of Social Choice (online) Fall 2018
- Mathematics of Management Science (online) Spring 2018
- Applied Calculus I Fall 2017
- Mathematics of Social Choice Spring 2017
- Mathematics of Management Science Fall 2016
- Applied Calculus II (online) Summer 2016

Graduate Teaching Assistant at University of Cincinnati – Teaching Assistant

- Calculus II, 3 sections Spring 2016
- Calculus I, 2 sections Fall 2015
- Calculus I, 3 sections Spring 2015
- Calculus II, 3 sections Fall 2014

Honors and Awards

- Maita Levine Award for Outstanding GA (for Teaching) Spring 2020
- Albert C. Yates Fellow 2014 – 2021
- King O’Neal Scholar Spring 2014

Graduate Coursework

· Real Analysis · Complex Analysis · Topology · Harmonic Analysis · Functional Analysis · Probability
· Ordinary Differential Equations · Partial Differential Equations · Stochastic Differential Equations
· Geometric Function Theory · Geometric Analysis · Numerical Analysis · Linear Algebra

Relevant Skills

Languages: English, French

Programming Languages: Python, Java, Swift, Mathematica, C++

Programming Libraries/APIs: TensorFlow, Keras, Scikit-Learn, PyCUDA, Scipy, Numpy, Matplotlib

Professional Affiliations

American Mathematical Society (AMS) 2014 – present

Pi Mu Epsilon, Florida Epsilon Chapter (USF) 2013 – present