Duncan Wright

Curriculum Vitae

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50rumbia, 50 25210	
Education:	
Ph. D. Mathematics, University of South Carolina, Columbia, SC Advisor: Dr. George Androulakis	Expected May 2019
M. A. Mathematics, University of Northern Iowa, Cedar Falls, IA Advisor: Dr. Adrienne Stanley	May 2014
B.A. Mathematics, University of Northern Iowa, Cedar Falls, IA	May 2012
Research Experience:	
Peer-Reviewed Publications S. J. Dilworth and D. Wright, A Direct Proof of the Reflection Print of Stochastic Processes 21(37) (2016), no. 2, pg. 1-3.	nciple for Brownian Motion, Theory
Submitted G. Androulakis and D. Wright, On the Nonlinearity of Quantum Dynat arXiv:1810.05746.	namical Entropy, Submitted, Preprint
G. Androulakis and D. Wright, <i>Optimality in Quantum Data Con</i> Submitted, Preprint at arXiv:1904.05402.	npression using Dynamical Entropy,
Grants, Awards and Other Honors:	

Grants Received

SPARC Graduate Research Grant 2018 - 2019 Office of the Vice President for Research, University of South Carolina (Columbia, SC) \$5,000 award

Awards Outstanding Teaching By A Graduate Assistant Award University of South Carolina Math Department (Columbia, SC)	2018 - 2019
Peer Excellence Initiative Award University of South Carolina Math Department (Columbia, SC)	2017 - 2018
Most Excellent New Graduate Student University of South Carolina Math Department (Columbia, SC)	2014 - 2015

Travel and Workshop Awards	
- Travel Grant for Joint Math Meetings 2019 (\$500 award from organizers plus \$250 from University of South Carolina math department)	Jan 2019
- Fully funded participant: Virginia Operator Theory and Complex Analysis Meeting 2018 (Lodging)	Oct 2018
- Travel Grant for Quantum Computation and Information Workshop (\$250 award from University of South Carolina math department in addition to meals and lodging support from organizers)	Sept 2018
- Travel Grant for BIRS-CMO Workshop (18w5059) on Quantum Transport Equation and Applications (\$800 award from University of South Carolina Graduate School in addition to meals and lodging support from organizers)	Sept 2018
- Fully funded participant: Virginia Operator Theory and Complex Analysis Meeting 2017 (Lodging, meals and travel)	Oct 2017
- Fully funded participant: QMath13 - Mathematical Results in Quantum Physics (Lodging, meals and travel)	Oct 2016
- Fully funded participant: Virginia Operator Theory and Complex Analysis Meeting 2015 (Lodging, meals and travel)	Oct 2015
Scholarly Presentations:	
Invited Talks Connecting Observation Protocols and Post-Observation Feedback RCML 2019 Conference Leading & Learning: Mathematics Made Accessible for All Charlotte, NC	Mar 2019
Dynamical Entropy of Quantum Random Walks University of South Carolina Graduate Colloquium Columbia, SC	Jan 2019
An Introduction to Quantum Error-Correcting Codes University of South Carolina Algebra and Logic Seminar Columbia, SC	Dec 2018
On the Nonlinearity of Quantum Dynamical Entropy BIRS-CMO Workshop (18w5059) on Quantum Transport Equation and Applications Oaxaca, Mexico	Sept 2018
Analysis as a Graduate Student University of South Carolina AWM Workshop Columbia, SC	March 2018
Entropy of Quantum Walks I University of South Carolina Analysis Seminar Columbia, SC	Oct 2017
Entropy of Quantum Walks II University of South Carolina Analysis Seminar Columbia, SC	Oct 2017
An Introduction to Quantum Mechanics through Random Walks University of South Carolina Graduate Colloquium Columbia, SC	Oct 2017

A Direct Proof of the Reflection Principle for Brownian Motion April 2017 University of South Carolina Analysis Seminar Columbia, SC Contributed Talks An Introduction to Quantum Mechanics through Random Walks March 2019 Carolina Math Seminar Greenwood, SC Dynamical Entropy of Quantum Random Walks Jan 2019 Joint Math Meetings 2019 (Special Session) Baltimore, MD Applications of Dynamical Entropy in Quantum Computing Oct 2018 University of South Carolina Analysis Seminar Columbia, SC Nonlinearity for Quantum Dynamical Entropy Oct 2018 University of South Carolina Analysis Seminar Columbia, SC Poster Presentation The Nonlinearity of Quantum Dynamical Entropy Sept 2018 Quantum Computation and Information Workshop College Station, TX Teaching Experience: University of South Carolina Aug 2014 - present Instructor of Record Jan 2015 - present - Differential Equations (Spring 2019, Summer 2017) - Discrete Mathematics for Computer Science (Fall 2018) - Finite Mathematics (Fall 2017 - Spring 2018) - Calculus I (Spring 2017) - College Algebra (Fall 2016) - Calculus II (Summer 2016) - Business Calculus (Spring 2016) - Intensive College Algebra (Fall 2015) - Vector Calculus (Summer 2015) - Pre-Calculus (Spring 2015) Graduate Teaching Assistant Aug 2014 - Dec 2014 - Calculus II (Fall 2014) **Graduate Student Teaching Mentor** Aug 2018 - May 2019

Graduate Level Grader

NSF award ID #1725295

Aug 2016 - May 2018

- Functional Analysis I & II (Fall 2017 - Spring 2018)

Teaching mentor for four novice graduate student instructors each semester.

University of Northern Iowa

Aug 2012 - May 2014

Graduate Assistant

Duties including, but not limited to, grading and tutoring up to twenty hours per week.

Skills and Memberships:

American Mathematical Society, student member Association for Women in Mathematics, member Preparing Future Faculty, credential Mentor Professional Development Seminar Gamecock Math Club, member

Academic Service:

Coordinator, University of South Carolina Analysis SeminarSept 2018 - May 2019Proctor, AP Calculus Practice ExamApril 2017Scavenger Hunt Co-organizer, U of SC High School Math ContestApril 2017Block Game Co-organizer, U of SC High School Math ContestApril 2018

References:

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