JOHNNY LENN FONSECA

ilf299@math.rutgers.edu

RESEARCH INTERESTS

Quantum Groups, Representation Theory, Vertex Operator Algebras, Category Theory, and Quantum Knot Invariants

EDUCATION

Rutgers University – New Brunswick, New Jersey	_
Ph.D. Candidate in Mathematics, GPA: 3.909	2018 – Present
Florida International University – Miami, Florida	
M.S. in Mathematical Sciences, GPA: 3.970	2017 - 2018
B.S. in Mathematics, GPA: 3.950 (Summa Cum Laude)	2015 - 2017
B.S. in Statistics, GPA: 3.950 (Summa Cum Laude)	2015 - 2017
University of Florida – Gainesville, Florida	
Coursework in Chemical Engineering	2013 - 2014

PROFESSIONAL EXPERIENCE

Rutgers University – New Brunswick, New Jersey

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Mathematics Instructor for Advanced Calculus for Engineers	May 20202 – July 2020
Graduate Teaching Assistant	Aug. 2018 - Present
Florida International University – Miami, Florida	
Graduate Teaching Assistant	Aug. 2017 – May 2018
Research Assistant at Computational Cognitive Neuroscience Lab	March 2016 – Aug. 2016
Mathematics Tutor at Student-Athlete Academic Center	June 2016 – Aug. 2016
Learning Assistant	Aug. 2015 – April 2017

PUBLICATIONS AND PRESENTATIONS

- L. Carbone, T. Coelho, J. Fonseca, J. Meng, S. H. Murray, F. Thurman and S. Zhu *Infinite dimensional Lie algebras: commutators and structure constants* In preparation (2020)
- "Continuation of Semisimple Lie Algebras." Graduate Algebra and Representation Theory Seminar of Rutgers. (Sept. 2019)
- "From Abstract Simplicial Complexes to Clique Chains." Math Club of FIU. (Dec. 2017)
- Fabian A. Soto, Emily Zheng, Johnny Fonseca, F. Greg Ashby *Testing Separability and Independence of Perceptual Dimensions with General Recognition Theory: A tutorial and new R package (grtools)*. Frontiers in Psychology. (2016)

HONORS AND ORGANIZATIONS

American Mathematical Society Student Member	2019 – Present
• FIU Outstanding Academic Achievement Certificate	2018
Phi Beta Kappa Student Member	2017 – Present
• UWS Lucille E. Snaith Memorial Scholarship	2016 - 2017
 Golden Key International Honor Society Student Member 	2015 – Present
• Student Government Association of FIU STEM Scholarship	2015 - 2016

SKILLS

Proficient in R, Maple, MATLAB, Python, Java, LaTeX, and Excel. Intermediate verbal and written Spanish communications skills.