

Nicholas J. Christoffersen
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Education:

University of Colorado (CU), Boulder <i>Doctorate of Philosophy in Mathematics</i> GPA: 4.0/4.0	Boulder, Colorado Spring 2025
Louisiana State University (LSU) <i>Master of Science in Mathematics</i> GPA: 4.177, (4.0/4.0)	Baton Rouge, Louisiana August 2021
University of Central Florida (UCF) <i>Bachelor of Science in Mathematics with Honors</i> GPA: 3.926/4.0, Summa Cum Laude	Orlando, Florida April 2020
Study Abroad: Universidad de Cantabria • Coursework: Advanced Calculus II, Differential Geometry, PDE, Numerical Analysis Language of Instruction: Spanish	Santander, Spain Spring 2018

Teaching Experience:

CU Department of Mathematics Graduate Teaching Assistant • TA Calculus I (Spring 2022) • TA Calculus II (Fall 2021) • Grader History of Mathematics (Fall 2021)	Boulder, Colorado August 2021-Present
LSU Department of Mathematics Graduate Teaching Assistant • Complex Variables and Linear Algebra (Spring 2021) • Business Calculus (Fall 2020)	Baton Rouge, Louisiana August 2020-May 2020
UCF Mathematics Department University Tutor • Assisted students individually and in groups to understand key concepts • Taught topics ranging from College Algebra and Calculus to Undergraduate Analysis and Abstract Algebra	Orlando, Florida September 2018-February 2020
UCF Mathematics Department Undergraduate Teaching Assistant • Debugged questions on a UCF online mathematics coursework system • Administered exams for undergraduate students	Orlando, Florida September 2017-December 2017

Preprints:

1. N. Christoffersen, D. Dutkay, G. Picioroaga, E. Weber. "Parseval Frames from Compressions of Cuntz Algebras" (35 pages) arXiv:2201.09714
2. N. Christoffersen, D. Dutkay. "Representations of Cuntz Algebras Associated to Random Walks" J. Operator Theory Vol. 88-1 (30 pages) arXiv:2009.10686
3. D. Gomes et. al. "A Price Model with Finitely Many Agents" (15 pages), preprint (accepted Bulletin of the Portuguese Mathematical Society)

Presentations:

1. *On Abelian C^* -algebras and One-Point Compactification*. LSU First Year Graduate Presentations. Baton Rouge, Louisiana (2021).
2. *Representations of Cuntz Algebras Associated to Random Walks* (Joint work with Dorin Dutkay). LSU Analysis Seminar. Baton Rouge, Louisiana (2020).
3. *Representations of Cuntz Algebras Associated to Random Walks* (Joint work with Dorin Dutkay). Presentation at Florida Undergraduate Research Conference. Fort Meyers, Florida (2020).

Outreach:

2022

- CU Undergraduate Math Research Demystified - Panel Member

Awards and Grants:

- LSU Graduate Enrichment Award
- UCF Office of Undergraduate Research Travel Grant
- KAUST Applied Mathematics Summer School Travel Grant and Stipend
- UCF Burnett Honors College WINGS Scholarship
- UCF Department of Mathematics Scholarship
- Nexus of Climate Data, Insurance, and Adaptive Capacity Travel and Housing Grant
- Statistical and Applied Mathematical Sciences Institute Travel Grants
- UCF Pegasus Scholarship (\$10,000)
- Florida Academic Scholars Bright Futures Scholarship (Full Tuition, Book Stipend)

Conferences/Workshops Attended (* indicates virtual attendance)

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| • 2022 - Rocky Mountain Mathematics Conference * | Laramie, WY |
| • 2020 - Florida Undergraduate Research Conference | Jacksonville, FL |
| • 2019 - KAUST Applied Mathematics Summer School (2 week stay) | Jeddah, KSA |
| • 2018 - Nexus of Climate Data, Insurance, and Adaptive Capacity (SAMSI) | Asheville, NC |
| • 2018, 2017 - SAMSI Undergraduate Workshop | Raleigh, NC |

Skills:

- Spanish (fluent), Portuguese (high-intermediate)

Last Updated: July 7, 2022