

Curriculum Vitæ

Danny Crytser

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EDUCATION

Dartmouth College

Ph.D., Mathematics June 2014
Advisor: Dana P. Williams
Area: Operator Algebras
Thesis: *Traces on graph algebras.*
Master of Arts, Mathematics June 2011

Whitman College

Bachelor of Arts, Pure Mathematics, Magna Cum Laude with Honors May 2009

Budapest Semesters in Mathematics

Study Abroad Program in Mathematics Spring 2008

APPOINTMENTS

Visiting Assistant Professor - St. Lawrence University 2017 - Current

Calculus I
Calculus II
Multivariable Calculus
Vector Calculus
Bridge to Higher Mathematics
Real Analysis

Visiting Assistant Professor - Kansas State University 2014-2017

Discrete Mathematics
Mathematics for Elementary School Teachers
Kansas State Sumar Mathematics REU Project Mentor
College Algebra
Pre-Calculus
Applied Matrix Theory
Matlab Instructor

Instructor - Dartmouth College 2011-2014

Linear Algebra
Ethics Trainer for Professional Ethics Program for First-Year Graduate Students
Topology
Introductory Calculus
Dartmouth Mathematics Department Teaching Seminar

Teaching Assistant - Dartmouth College 2009-2011

Honors Linear Algebra
Introductory Calculus

TEACHING EXPERIENCE

I have taught a wide range of courses, from elementary algebra to point-set topology, in both applied and pure contexts. I've taught linear algebra courses with programming contexts, directed at engineering majors, as well as real analysis courses meant to hone proof-writing skills for advanced undergraduates. My graduate education included specific training and mentoring to prepare me for teaching university mathematics. For more details, please see my teaching statement.

PUBLICATIONS

- *Continuous-trace k -graph C^* -algebras* *Rocky Mountain J. Math*, Vol 48, Number 5.
(arXiv link)
- *Stability of C^* -algebras associated to k -graphs* In preparation
(link)
- *Tracial states arising from Cartan subalgebras* (with G. Nagy) *J. Austr. Math. Soc.* Vol 103 (2)
(arXiv link)
- *C^* -simplicity of étale groupoids* (with G. Nagy) Forthcoming in *J. Operator Theory*
(arXiv link)
- *Containment: A Variation of Cops and Robber* (with N. Komarov and J. Mackey)
Submitted to *Graphs and Combinatorics*
- *Large inclusions for groupoid and k -graph C^* -algebras* In preparation

PRESENTATIONS

Joint Math Meetings - Baltimore, MD

Large inclusions for groupoid and k -graph C^ -algebras*

Great Plains Operator Theory Seminar -

Regular presenter and participant

2012-

Groupoidfest 2017 - University of Colorado, Boulder

Traces arising from regular inclusions

March 2017

Operator Algebras Seminar - University of Colorado, Boulder

Tracial states arising from Cartan subalgebras

April 2015

Nebraska - Iowa Functional Analysis Symposium - Creighton University

Tracial states arising from Cartan subalgebras

April 2015

Colloquium - Dartmouth Mathematics Department - Dartmouth College

Stability of graph C^ -algebras*

March 2014

Contributed Talk - Joint Mathematics Meetings - Baltimore, Maryland

Continuous-trace graph C^ -algebras*

January 2014

Contributed Talk - New Hampshire Operator Theory Symposium - University of New Hampshire

Continuous-trace graph C^ -algebras*

May 2013

Operator Algebras Seminar - Kansas State University

Regular participant and presenter

2014-2017

HONORS AND AWARDS

Fellowships - Dartmouth College

GAANN Graduate Fellowship

September 2009 - July 2010

Dartmouth College Graduate Fellowship

August 2010 - June 2014

PROFESSIONAL ACTIVITIES

Hudson River Undergraduate Mathematics Conference - Session chair April 2018

Joint Mathematics Meetings - Presenter January 2012, 2014

2014: Presented *Continuous-trace graph C^* -algebras*.

2012: Represented Dartmouth Mathematics Graduate Program at the Graduate School Open House.

MENTORING and SERVICE ACTIVITIES

McNair Scholars Programs - Program mentor - St Lawrence University Summer 2019

Senior Year Experience - Honors Thesis Mentor - St Lawrence University 2018-2019

Honors Senior Year Experience - Faculty Mentor - St Lawrence University Fall 2018

Rock Climbing Club - Faculty Advisor - Kansas State University Fall 2016

SUMAR Mathematics REU - Project Mentor - Kansas State University Summer 2016

Graduate Student Council - Math Dept. Representative - Dartmouth College Fall 2010

Graduate Student Seminar - Organizer - Dartmouth College Fall 2009-2014

REFERENCES

Available upon request.