

Curriculum Vitae

Jeremy Sain

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Education

2002-2009 Ph.D. Mathematics, University of California at Berkeley
Dissertation Berezin Quantization From Ergodic Actions of Compact Quantum
 Groups, and Quantum Gromov-Hausdorff Distance
Advisor Marc Rieffel
1998-2002 B.S. Mathematics and Physics, with Honors, Texas Tech University
Advisor Razvan Gelca

Employment

2024-present Division Director of Sciences, Clarendon College
2020-present Professor, Clarendon College
2009–2020 Associate Professor, Clarendon College
2005–2009 Graduate Student Researcher, University of California at Berkeley
2002–2005 Graduate Student Instructor, University of California at Berkeley
2000–2002 Tutor and Grader, Texas Tech University
Summer 2001 National Security Agency, Director’s Summer Program

Publications

1. “The noncommutative A-ideal of a $(2p+1,2)$ -torus knot determines its Jones polynomial,” with Razvan Gelca, J. Knot Theory Ramif, 2(2003), Vol. 12, 187-201
 - Cited by 54.
2. “The computation of the noncommutative A-ideal for the figure eight knot,” with Razvan Gelca, J. of Knot Theory Ramif, 6(2004), Vol. 16, 1-24

- Cited by 17.
- 3. “Berezin Quantization From Ergodic Actions of Compact Quantum Groups, and Quantum Gromov-Hausdorff Distance,” preprint arXiv:0906.1829.
- Cited by 6.

Invited Talks

1. “Accelerating College Readiness and Student Completion,” NISOD Webinar, October 22, 2015.
2. “Accelerating College Readiness and Student Completion,” CASP 2015 : 34th Annual College Academic Support Programs Conference, Allen, Texas, October 1, 2015.
3. “Accelerating College Readiness and Student Completion,” NISOD’s 2015 International Conference on Teaching and Leadership Excellence, Austin, Texas, May 24, 2015.
4. “Us Versus Them: Using Internal, Competitive and Functional Benchmarking to Evaluate Student Success Rates in an Innovative Community College Developmental Math Program,” National Benchmarking Conference, Johnson County Community College, Kansas, May 13, 2015.
5. “Operator Systems as Quantum Sets, and Applications to Orbits of Quantum Groups,” 1100th Sectional Meeting of the AMS, Lubbock, Texas, April 2014.
6. “3-2-1... You’re In!” 32nd Annual CASP conference, Amarillo, Texas, October 2013.
7. “Berezin quantization of quantum homogeneous spaces,” 1051st Sectional Meeting of the AMS, Waco, Texas, October 2009.
8. “Berezin quantization from actions of compact quantum groups,” Red Raider Symposium, Texas Tech University, October 2008.
9. “The noncommutative A-ideal of a $(2, 2p+1)$ -torus knot determines its Jones polynomial,” 969th Sectional Meeting of the AMS, Columbus, Ohio, September 2001.
10. I have spoken about 35 times in Rieffel’s “Quantum Geometry” seminar at Berkeley, and twice in the geometry seminar at Texas Tech.

Conferences, Professional Development, and Leadership

1. Attended Leading from the Middle Conference, TCCTA Summer 2023.
2. Completed Mental Health CPR Training, January 2023.
3. Faculty Senate Secretary 2018-2020.
4. Faculty Senate President 2014-2016.
5. Attended TCCTA 67th Annual Convention, February 2014.
6. Completed Moodle Training course, May 2012.
7. Completed Best Practices for Online Teaching course, April 2012.
8. Attended CCRI Mathematics Faculty Collaborative, September 2011.
9. Attended TCCTA 64th Annual Convention, January 2011.
10. Attended in-service on FERPA law. Amarillo College, November 2010.

Awards

2016	Texans Caring For Texans Honoree
2016	NISOD Excellence Award
2002-2003	Outstanding GSI (Graduate Student Instructor), University of California at Berkeley

Courses Taught

- Developmental Math I–Basic Arithmetic
- Developmental Math II–Prealgebra
- Developmental Math III–Intermediate Algebra
- College Algebra
- Contemporary Mathematics–Math for Liberal Arts Majors
- Business Math–Linear Systems and Programming, Statistics, Markov Models
- Business Calculus–Derivatives, Extrema, Integration, Multivariable Calculus
- Trigonometry
- Elementary Statistics–Discrete Probability, Hypothesis Testing, Regression Models
- Calculus I–Limits, Differentiation, and Basic Integration
- Calculus II–Integration Techniques and Series
- Calculus III–Multivariable Calculus
- Linear Algebra and Ordinary Differential Equations
- Discrete Mathematics–Propositional Calculus, Proofs, Number Theory, Combinatorics
- College Physics I and II–Trig Based Physics
- University Physics I and II–Calculus Based Physics

Volunteer Work

- 2022-current Quail Baptist Church, Deacon
- 2016-current Quail Baptist Church, Assistant Music Director
- 2018-2020 Goodnight Historical Center, Volunteer Banjo Player
- 2012-2020 Faculty Advisor for Anime Club
- 2009-2020 JUMP College Ministry, on worship team
- 2014-2016 Howardwick Baptist Church, Assistant Songleader

Other Interests

- Music—I play a number of instruments, my main two being banjo and piano. I’ve composed around 20 classical-style piano solos and have done any number of song arrangements.
- Reading—I enjoy reading, especially fanatasy. I generally read around 75 books a year.
- Reformation Theology—I’ve led a number of Bible studies and memorization groups over the years. At one point in time I had the book of Romans memorized (NASB).