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

2009–present	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 31.
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 10.
3. "Berezin Quantization From Ergodic Actions of Compact Quantum Groups, and Quantum Gromov-Hausdorff Distance," preprint arXiv:0906.1829.
   - Cited by 1.
4. "Operator Systems as Quantum Sets, and Applications to Orbits of Quantum Groups," in preparation.

Invited Talks

1. "Operator Systems as Quantum Sets, and Applications to Orbits of Quantum Groups," 1100th Sectional Meeting of the AMS, Lubbock, Texas, April 2014.
2. "3-2-1... You're In!" 32nd Annual CASP conference, Amarillo, Texas, October 2013.
3. "Berezin quantization of quantum homogeneous spaces," 1051st Sectional Meeting of the AMS, Waco, Texas, October 2009.
4. "Berezin quantization from actions of compact quantum groups," Red Raider Symposium, Texas Tech University, October 2008.
5. "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.
6. I have spoken about 35 times in Rieffel's "Quantum Geometry" seminar at Berkeley, and twice in the geometry seminar at Texas Tech.

Confrences Attended and Other Professional Development

1. Attended TCCTA 67th Annual Convention, February 2014.
2. Completed Moodle Training course, May 2012.
3. Completed Best Practices for Online Teaching course, April 2012.
4. Attended CCRI Mathematics Faculty Collaborative, September 2011.
5. Attended TCCTA 64th Annual Convention, January 2011.
6. Attended in-service on FERPA law. Amarillo College, November 2010.

References

1. Matthew Gamel, Nicholls State University
2. Linda Rowland, Clarendon College (teaching)
3. Kim Jeffrey, Clarendon College (online instruction)
4. Marc Rieffel, University of California at Berkeley
5. Razvan Gelca, Texas Tech University

Awards

2002-2003 Outstanding GSI (Graduate Student Instructor), University of California at Berkeley

Courses Taught

- Developmental Math I–Basic Arithmatic
- Developmental Math II–Prealgebra
- Developmental Math III–Intermediate Algebra
- College Algebra
- Contempory Mathematics–Math for Liberal Arts Majors
- Trigonometry
- Elementry Statistics–Discrete Probability, Hypothesis Testing
- Calculus I–Limits, Differentiation, and Basic Integration
- Calculus II–Integration Techniques and Series
- Calculus III–Multivariable Calculus
- Linear Algebra and Ordinary Differental 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

Online Courses Taught

- College Algebra
- Trigonometry
- Elementry Statistics–Discrete Probability, Hypothesis Testing