

# CHRISTOPHER YOUSUF GEORGE

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## EDUCATION

- Ph.D. in Mathematics**, The Pennsylvania State University 2008  
**Title:** The Mackey Analogy and Connes-Kasparov Conjecture for  $SL(n, \mathbb{R})$  (Expected)  
**Advisor:** Nigel Higson
- M.Sc. in Mathematics**, University of Toronto 2002
- Honours B.Sc. in Mathematics** (With Distinction), University of Toronto, Trinity College 2001

## RESEARCH INTERESTS

My general research interests are in noncommutative geometry. In particular, my research focuses on the representation theory of Lie groups and the Baum-Connes conjecture.

## ACADEMIC POSITIONS

- Teaching Associate**, The Pennsylvania State University 2007-2008  
**Graduate Lecturer**, The Pennsylvania State University Summer 2003  
**Teaching Assistant**, The Pennsylvania State University 2002-2007  
**Visiting Member**, The Fields Institute, Toronto 2000-2001  
**Teaching Assistant**, University of Toronto 1999-2002

## HONORS AND AWARDS

- The Pennsylvania State University Harold F. Martin Outstanding Teaching Award 2007  
Teaching Associate status granted by the Penn State Department of Mathematics 2007  
NSF Fellowship 2006  
Penn State Department of Mathematics Outstanding Graduate Teaching Assistant Award 2006  
NSF Summer Research Support 2004-2007  
Penn State Department of Mathematics Outstanding Graduate Teaching Assistant Award 2004  
Penn State Eberly College of Science Fellowship 2002  
University of Toronto Department of Mathematics Fellowship 2001  
NSERC Undergraduate Research Award 2000  
Trinity College Chancellor's Scholarship 1998  
University of Toronto Scholarship 1997

## TEACHING EXPERIENCE AND PROFESSIONAL SERVICE

### Primary Instructor at Penn State

Courses Taught: *Matrices*, *Calculus I & II*, *Techniques of Calculus II* (multivariable calculus and ordinary differential equations), *Finite Mathematics*, *College Algebra I & II*. Duties included lecturing, designing curricula and syllabi, writing and grading exams, quizzes and homework assignments, and maintaining class websites.

### Grader at Penn State

Graded weekly problem sets for an advanced linear algebra class.

**GTA Mentor at Penn State**

Mentored 6 graduate teaching assistants during their first year of teaching in order to develop strategies to improve their teaching.

**Personal Tutor at Penn State**

Served as a personal tutor for students in courses ranging from pre-calculus to abstract algebra.

**Tutorial Instructor at the University of Toronto**

Led discussion sections of *Calculus!* (a proof-based calculus course for math, physics and computer science majors), and *Calculus for Life Sciences*, and graded weekly problem sets.

**Tutor in the Math Aid Centre at the University of Toronto**

Tutored individual or small groups of students in a drop-in help center.

**High School Mentorship Program at the University of Toronto**

Developed and taught an abstract algebra and number theory course for a small group of exceptional high school students. Also supervised individual research projects.

**Durham Region Tutors in the Classroom Program**

Worked in an under served high school offering additional help to students in math and science. Led a weekly lunch seminar on techniques of integration.

**PROFESSIONAL DEVELOPMENT****Teaching Seminars in the Department of Mathematics, Penn State**

- David Bressoud, Rachel Hall, James Sellers, Panel Discussion, *The Mathematician at the Liberal Arts College: Challenges and Rewards*, March 27, 2006.
- Solomon Friedberg, *Teaching Development Using the Case Studies Method*, November 1, 2005.
- Deborah Ball and Hyman Bass, *Mathematical Definitions and the Learning and Teaching of Mathematics*, December 2, 2003.
- Frank Morgan, *Double Bubble Conjecture Proved*, October 2, 2003.
- Bruce Reznick, *Chalking It Up: Advice to a New TA*, April 29, 2003.
- Steven Krantz, *Thoughts on Teaching Mathematics*, February 25, 2003.
- Doris Schattschneider, *Seeing, Believing, Proving in Mathematics*, October 1, 2002.

**Graduate Teaching Assistant Training Program 2002**

Penn State Department of Mathematics

**CONFERENCES ATTENDED**

- Session Chair – Conference on Undergraduate Research in Mathematics, Penn State University, November 2007.
- East Coast Operator Algebra Symposium, University of Pennsylvania, October 2005.
- Noncommutative Geometry and Index Theory Conference in honor of Jerry Kaminker, Penn State University, May 2005.
- East Coast Operator Algebra Symposium, United States Naval Academy, October 2004.
- The Legacy of John Charles Fields Symposium, Toronto, June 2000.
- Canadian Operator Theory Symposium, Toronto, June 2000.

**PROFESSIONAL MEMBERSHIPS**

American Mathematical Society  
Mathematical Association of America

**REFERENCES**

Nigel Higson  
Evan Pugh Professor  
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