Adam Graham-Squire   Curriculum Vitae

CONTACT INFORMATION	Department of Mathematics University of North Carolina at Chapel Hill Chapel Hill, NC 27599-3250	gadam@email.unc.edu http://www.unc.edu/~gadam Citizenship: USA

EDUCATION

University of North Carolina at Chapel Hill

Ph.D. Candidate, Mathematics (expected May 2011)

- Dissertation Topic: Explicit formulas for local formal Mellin transform.
- Advisor: Dima Arinkin

M.S. in Mathematics, May 2010

- Masters Topic: Formal reduction of the operator $d/dx + A$ to canonical form.

Whitman College

B.A. in Mathematics, May 1998

- Minor in Geology
- Magna cum laude

ACADEMIC EMPLOYMENT

University of North Carolina at Chapel Hill, Department of Mathematics

- Senior Teaching Fellow, Fall 2010 to present. Duties include co-teaching Math 920, mentoring and observing first-time instructors.
- Graduate Teaching Assistant, Fall 2006 to Spring 2010. Duties included teaching, assisting and tutoring.

RESEARCH INTERESTS

Algebraic Geometry, Local Integral Transforms, Differential and Difference Operators, $\mathcal{D}$-Modules, Mathematics Education.

RESEARCH PAPERS

A. Graham-Squire, *Calculation of local formal Fourier transforms,* **arXiv:1011.3525**, submitted.

UNIVERSITY COURSES TAUGHT

Fall	2010	Math 920, Teaching Seminar for Graduate Teaching Assistants
Summer	2010	Math 381, Discrete Math
Fall	2009	Math 232, Calculus II (2 sections)
Summer	2009	Math 130, Pre-Calculus
Spring	2009	Math 231, Calculus I
Fall	2008	Math 231, Calculus I (2 sections)
Summer	2008	Math 152, Business Calculus
Spring	2008	Math 118, Special Topics in Math
Fall	2007	Math 232, Calculus II
Summer	2007	Math 152, Business Calculus

UNIVERSITY COURSES ASSISTED

Fall	2007	Math 521, Advanced Calculus I. Duties included grading and teaching homework recitation twice a week.
Spring	2007	Math 522, Advanced Calculus II. Duties included grading and teaching homework recitation once a week.
Fall	2006	Math 521, Advanced Calculus I. Only duty was grading.

OTHER TEACHING EXPERIENCE	2003 to 2005	Washington Prep High School, Los Angeles, USA. Taught Algebra II, Geometry and Algebra I.
	2000 to 2002	Dantakali M.V., Dharan, Nepal. Taught middle school math in Nepali as a Peace Corps volunteer.
	1999	Bunya Combined School, Bunya, Namibia. Taught high school math in English as a Peace Corps volunteer.

HONORS AND AWARDS	Spring 2011	GAANN Fellowship
	Summer 2010	Future Faculty Fellowship Award
	Spring 2010	GAANN Fellowship
	Spring 2009	Nominated for Linker Teaching Award
	1998	Phi Beta Kappa
	1998	Award for Outstanding Student Services at Whitman
	1994–1998	Whitman Merit Scholar, Whitman College
	1994–1998	National Merit Scholar

TALKS

Local Formal Integral Transforms, GMA Visions Seminar at UNC Chapel Hill, (November 2010)

Reduction of the Operator d/dx + A to Canonical Form, GMA Visions Seminar at UNC Chapel Hill, (November 2009)

CONFERENCES ATTENDED

Joint Mathematics Meetings: New Orleans (January 2011).

Eigenvalue and Saturation Problems for Reductive Groups: UNC Chapel Hill (May 2009).

23rd Annual Geometry Festival: Duke University (April 2008).

LANGUAGES

English, Spanish, and Nepali

MEMBERSHIPS

American Mathematical Society
Mathematics Association of America