Curriculum Vitae

Personal Information

Jeffrey D. Adler
Associate Professor
Department of Mathematics and Statistics
American University
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Phone: 202 885 3361

Education

Ph.D. in Mathematics, The University of Chicago, Chicago, IL, June 1996
Dissertation: "Anisotropic refined minimal K-types and supercuspidal representations."
Advisor: Paul J. Sally, Jr.
M.S. in Mathematics, The University of Chicago, 1988.
A.B. in Mathematics (with high honors), Princeton University, 1987.

Post-Doctoral Employment

The University of Toronto, Department of Mathematics
Postdoctoral Fellow: July, 1996 – June, 1998.
The University of Akron, Department of Theoretical and Applied Mathematics
Assistant Professor: September, 1998 – August, 2004
Associate Professor: September, 2004 – August, 2007
The University of Michigan, Department of Mathematics
Visiting Scholar: Fall, 2005.
The University of Toronto, Department of Mathematics
Visiting Associate Professor: Spring, 2006.
American University, Department of Mathematics and Statistics
Associate Professor: September, 2007 – present

Honors and Awards

Buchtel College of Arts and Sciences Early Career Research Award, The University of Akron, April, 2004.
Distinguished Visiting Professor, Bucknell University, March, 2004.
Member, Institute for Mathematical Sciences, Singapore, August, 2002.
Distinguished Visiting Professor, Bucknell University, March, 2002.

Buchtel College of Arts and Sciences, Department Chairs' Early Career Award, The University of Akron, 2001.

American Mathematical Society, Mathematical Challenges Travel Grant, August, 2000. $1,000.

Postdoctoral Fellowship, University of Toronto, 1996–98.

National Science Foundation Graduate Fellowship 1988–90, 1992–93.

College Fellowship in Mathematics, The University of Chicago, 1988–1989.

University Fellowship in Mathematics, The University of Chicago, 1987-1988.

Publications

Referreed Articles.

Self-contragredient supercuspidal representations of GL_n, Proc. Amer. Math. Soc., **125** (1997), No. 8, 2471–2479.

Refined anisotropic K-types and supercuspidal representations, Pacific J. Math., **185** (1998), no. 1, 1–32.

An intertwining result for p-adic groups, (with Alan Roche), Canad. J. Math., **52** (2000), no. 3, 449–467.

Some applications of Bruhat-Tits theory to harmonic analysis on the Lie algebra of a reductive p-adic group (with Stephen DeBacker), Mich. J. Math. **50** (2002), No. 2, 263–286. (An early version of this work was distributed under the title "Moy-Prasad filtrations and harmonic analysis".)

A generalization of a result of Kazhdan and Lusztig, (with Stephen DeBacker), Proc. Amer. Math. Soc., **132** (2004), no. 6, 1861–1868.

Murnaghan-Kirillov theory for supercuspidal representations of tame general linear groups, (with Stephen DeBacker), J. Reine Angew. Math. **575** (2004), 1–35.

Injectivity, projectivity, and supercuspidal representations, (with Alan Roche), J. London Math. Soc. (2) **70** (2004), no. 2, 356–368.

Discrete series representations of unipotent p-adic groups, (with Alan Roche), J. Lie Theory **15** (2005), 261–267.

Depth-zero base change for unramified $U(2,1)$, (with Joshua Lansky), J. Number Theory **114** (2005), no. 2, pp. 324–360. Printer's error corrected in vol. **121** (2006), no. 1, 186.

On certain multiplicity one theorems (with Dipendra Prasad), Israel J. Math, **153** (2006), 221–245.

The local character expansion near a tame, semisimple element (with Jonathan Korman), Amer. J. Math., **129** (2007), no. 2, 381–403.

Good product expansions for tame elements of p-adic groups (with Loren Spice), Int. Math. Res. Pap. vol. 2008, 95 pages. E-print available at `arXiv:math.RT/0611554`.

Reading encrypted diplomatic correspondence: An undergraduate research project, (with Ryan Fuoss, Michael Levin, and Amanda Youell), *Cryptologia*, **32** (2008), Issue 1, pp. 1–12.

Supercuspidal characters of reductive p-adic groups (with Loren Spice), Amer. J. Math., to appear. E-print available at `arXiv:0707.3313`.

The poster session: a tool for education, assessment, and recruitment (with Ethel R. Wheland, Timothy W. O'Neil, and Kathy J. Liszka), Mathematics and Computer Education, to appear.

Depth-zero base change for ramified $U(2,1)$ (with Joshua Lansky), submitted. E-print available at `arXiv:0807.1528`.

Invited Articles.

A construction of types, Analyse harmonique sur le groupe Sp_4, (CIRM, Luminy, June, 1998), Paul Sally, ed. University of Chicago Lecture Notes in Representation Theory, 1999.

Discrete series characters of division algebras and GL_n over a p-adic field (with L. Corwin and P. J. Sally, Jr.), in *Contributions to Automorphic Forms, Geometry, and Number Theory* , pp. 57–64. Edited by H. Hida, D. Ramakrishnan, and F. Shahidi. Johns Hopkins University Press, 2004.

Undergraduate research in mathematics at the University of Akron, *Proceedings of the Conference on Promoting Undergraduate Research in Mathematics (Chicago, 2006)*, Joseph A. Gallian, ed., American Mathematical Society, pp. 145–148.

Reviews of articles.

For Mathematical Reviews.

MR1926786 (2003j:22020) A. Raghuram, *On representations of p-adic $GL_2(D)$*. Pacific J. Math. 206 (2002), no. 2, 451–464.

MR2025549 (2004j:22019) Dubravka Ban, *Linear independence of intertwining operators*. J. Algebra 271 (2004), no. 2, 749–767.

MR2058386 (2005d:22005) Eugene Kushnirsky, *On some Haar measures on reductive groups*. Amer. J. Math. 126 (2004), no. 3, 649–670.

MR2090869 (2005g:22009) Stephen DeBacker, *Lectures on harmonic analysis for reductive p-adic groups*. Representations of real and p-adic groups, 47–94, Lect. Notes Ser. Inst. Math. Sci. Natl. Univ. Singap., 2, Singapore Univ. Press, Singapore, 2004.

MR2115092 (2005k:22024) Jing-Song Huang and Marko Tadić, *Generalized spherical functions on reductive p-adic groups*. Trans. Amer. Math. Soc. 357 (2005), no. 5, 2081–2117.

MR2406494 Eliot Brenner, *Stability of the local gamma factor in the unitary case*. J. Number Theory 128 (2008), no. 5, 1358–1375.

Allen Moy and Marko Tadić, *Some algebras of essentially compact distributions of a reductive p-adic group*. In Harmonic Analysis, Group Representations, Automorphic Forms and Invariant Theory: In Honor of Roger E. Howe, World Scientific, Singapore, 2007.

MR2427973 Mark Reeder, *Supercuspidal L-packets of positive depth and twisted Coxeter elements*, J. Reine Angew. Math. 620 (2009), 1–33.

For Zentralblat Mathematik.

Zbl 0938.22014 Goldberg, David; Shahidi, Freydoon. *On the tempered spectrum of quasi-split classical groups*. Duke Math. J. **92**, No. 2, 255–294 (1998).

Zbl 0934.22021 Schneider, P.; Zink, E.-W. *K-types for the tempered components of a p-adic general linear group. With an Appendix: The definition of the tempered category by P. Schneider and U. Stuhler*. J. Reine Angew. Math. **517**, 161–208 (1999).

Zbl 0957.22021 Howe, Roger E. *Harish-Chandra homomorphisms*. In Doran, Robert S. (ed.) et al., The mathematical legacy of Harish-Chandra. A celebration of representation theory and harmonic analysis. Proceedings of an AMS special session honoring the memory of Harish-Chandra, Baltimore, MD, USA, January 9–10, 1998. Providence, RI: American Mathematical Society. Proc. Symp. Pure Math. **68**, 321–332 (2000).

Zbl 0957.22020 Murnaghan, Fiona. *Germs of characters of admissible representations*. In Doran, Robert S. (ed.) et al., The mathematical legacy of Harish-Chandra. A celebration of representation theory and harmonic analysis. Proceedings of an AMS special session honoring the memory of Harish-Chandra, Baltimore, MD, USA, January 9–10, 1998. Providence, RI: American Mathematical Society. Proc. Symp. Pure Math. **68**, 501–515 (2000).

Zbl 0964.22015 DeBacker, Stephen. *Homogeneity of certain invariant distributions on the Lie algebra of p-adic GL_n.* Compos. Math. **124**, No. 1, 11–16 (2000).

Zbl 1013.11080 Vignéras, Marie-France. *La conjecture de Langlands locale pour $GL(n, F)$ modulo ℓ quand $\ell \neq p$, $\ell > n$.* Ann. Sci. Éc. Norm. Sup. (4) **34**, No. 6, 789–816 (2001).

Zbl 0988.22008 Stevens, Shaun. *Double coset decompositions and intertwining.* Manuscr. Math. **106**, No. 3, 349–364 (2001).

Zbl 0979.22004 Kim, Ju-Lee. *Hecke algebras of classical groups over p-adic fields. II.* Compos. Math. **127**, No. 2, 117–167 (2001).

Zbl 0964.22014 Goldberg, David; Shahidi, Freydoon. *On the tempered spectrum of quasi-split classical groups. II.* Can. J. Math. **53**, No. 2, 244–277 (2001).

Zbl 0973.22012 Kim, Ju-Lee; Piatetski-Shapiro, Ilya I. *Quadratic base change of θ_{10}.* Isr. J. Math. **123**, 317–340 (2001).

Zbl 1015.20033 DeBacker, Stephen. *Parametrizing nilpotent orbits via Bruhat-Tits theory.* Ann. Math. (2) **156**, No. 1, 295–332 (2002).

Zbl 0999.22013 DeBacker, Stephen. *Homogeneity results for invariant distributions of a reductive p-adic group.* Ann. Sci. Éc. Norm. Sup. (4) **35**, No. 3, 391–422 (2002).

Zbl 0999.22021 Reeder, Mark. *Isogenies of Hecke algebras and a Langlands correspondence for ramified principal series representations.* Represent. Theory **2002**, 101–126 (2002).

Zbl 0992.22015 Moeglin, Colette; Tadić, Marko. *Construction of discrete series for classical p-adic groups.* J. Am. Math. Soc. **15**, No. 3, 715–786 (2002).

Zbl 1037.22032 Bushnell, Colin J.; Henniart, Guy. *Local tame lifting for $GL(n)$. IV: Simple characters and base change.* Proc. Lond. Math. Soc., III. Ser. **87**, No. 2, 337–362 (2003).

Zbl 1012.22032 Bushnell, Colin J.; Henniart, Guy. *Explicit unramified base change: GL(p) of a p-adic field.* J. Number Theory **99**, No. 1, 74–89 (2003).

Zbl 1065.22011 Hiraga, Kaoru. *On functoriality of Zelevinski involutions.* Compos. Math. **140**, No. 6, 1625–1656 (2004).

Zbl 1057.22023 Kariyama, Kazutoshi; Miyauchi, Michitaka. *Fundamental C-strata for classical groups.* J. Algebra **279**, No. 1, 38–60 (2004).

Zbl 1047.22015 Kim, Ju-Lee *Dual blobs and Plancherel formulas.* Bull. Soc. Math. Fr. **132**, No. 1, 55–80 (2004).

Zbl 1131.11033 Ban, Dubravka; Zhang, Yuanli *Arthur R-groups, classical R-groups, and Aubert involutions for* $\mathrm{SO}(2n+1)$. Compos. Math. **141**, No. 2, 323–343 (2005).

Zbl 1114.22011 Sakellaridis, Yiannis. *A Casselman-Shalika formula for the Shalika model of* GL_n. Can. J. Math. **58**, No. 5, 1095–1120 (2006).

Zbl 1104.22018 Henniart, Guy. *On the local Langlands and Jacquet-Langlands correspondences.* In Sanz-Solé Marta (ed.) et al., Proceedings of the international congress of mathematicians (ICM), Madrid, Spain, August 22–30, 2006. Volume II: Invited lectures. Zürich: European Mathematical Society (EMS). 1171–1182 (2006).

Zbl 1140.22016 Stevens, Shaun *The supercuspidal representations of p-adic classical groups.* Invent. Math. **172**, No. 2, 289–352 (2008)A.

Zbl pre05282823 Vignéras, Marie-France, *Représentations irréducibles de* $GL(2,F)$ *modulo p.* In Burns, David (ed.) et al., L-functions and Galois representations. Based on the symposium, Durham, UK, July 19–30, 2004. Cambridge: Cambridge University Press. London Mathematical Society Lecture Note Series **320**, 548–563 (2007).

Zbl pre05320434 Goran Muić, *On the structure of theta lifts of discrete series for dual pairs* $(Sp(n), O(V))$. Isr. J. Math. 164, 87–124 (2008).

Invited Lectures.

"Harmonic analysis on p-adic groups," Colloquium Talk, Bowling Green State University, March, 1995.

"Supercuspidal representations of classical groups," Group and Lie Theory Seminar, The University of Michigan, April, 1995.

"Moy-Prasad filtrations and anisotropic K-types," Lie Theory and Number Theory Seminar, The University of Toronto, October–November, 1996.

"The support of certain Hecke algebras," Group and Lie Theory Seminar, The University of Michigan, April, 1997.

"Supercuspidal representations of lots of groups," Group and Lie Theory Seminar, The University of Michigan, November, 1997.

"P-adic groups in number theory," Colloquium Talk, Rutgers University—Newark, February, 1998.

"P-adic groups: What and Why?," Colloquium Talk, The University of Akron, March, 1998.

"A construction of types," Analyse harmonique sur le groupe Sp_4, Centre International de Rencontres Mathématiques, Luminy, France, June, 1998.

"Bushnell-Kutzko types," Harmonic Analysis and Automorphic Representations Seminar, The Ohio State University, October, 1998.

"Treacherous barbs: Wild Galois descent in buildings," Representation Theory Seminar, The University of Chicago, January, 1999.

"Wild ramification and Moy-Prasad filtrations," Lie Theory and Number Theory Seminar, The University of Toronto, March, 1999.

"Some examples and consequences of wild ramification," Automorphic Forms and Group Representation Theory Seminar, Purdue University, April, 1999.

"Wild ramification and Galois descent," Workshop on Representations of Reductive p-adic Groups, Centre de Recherches Mathématiques, Université de Montréal, May, 1999.

"Asymptotic properties of Moy-Prasad filtrations," Representation Theory Seminar, The University of Chicago, June, 1999.

"Murnaghan's Kirillov theory," Group and Lie Theory Seminar, The University of Michigan, October, 1999.

"Supercuspidal characters and coadjoint orbits," Workshop on Lie Groups, Lie Algebras, and Their Representations, The University of Utah, November, 1999.

"Representations of p-adic groups: What and Why?" Cleveland State University, May, 2000.

"Supercuspidal characters and coadjoint orbits," Mini-colloque: Harmonic analysis on p-adic groups, Institut Henri Poincaré, Paris, June, 2000.

"Murnaghan-Kirillov Theory for supercuspidal representations," Harmonische Analysis und Darstellungstheorie topologischer Gruppen, Mathematisches Forschungsinstitut Oberwolfach, Germany, July, 2000.

"Kirillov theory and supercuspidal characters of p-adic groups," Cleveland State University, June, 2001.

"Characters of Lie groups: What are they?", Kent State University, October–November, 2001.

"Supercuspidal character germs for classical groups", PIMS Workshop on Representations of Reductive p-adic Groups, Banff, Canada, February, 2002.

"Harmonic analysis on p-adic groups: What it is," University of Michigan, March, 2002.

"Character germs and orbits," University of Pittsburgh, March, 2002.

"P-adic groups: what and why", Bucknell University, March, 2002.

"Harmonic analysis on groups: some analogies and contrasts", Bucknell University, March, 2002.

"P-adic groups: some analogies and contrasts", J. Clarence Karcher Colloquium, University of Oklahoma, April, 2002

"Supercuspidal character germs for classical and other groups", Institute for Mathematical Sciences, Singapore, 26 July, 2002.

"Base change, with an example", Institute for Mathematical Sciences, Singapore, 31 July, 2002.

"Depth-zero base change for $U(3)$", International workshop on K-types for p-adic reductive groups, Westfälishe-Willems Universität Münster, Germany, June 13, 2003.

"Base change, with an explicit example," Tata Institute of Fundamental Research, Mumbai, India, July 1, 2003.

"Categorical properties of supercuspidal representations," University of Michigan, November, 2003.

"Categorical properties of supercuspidal representations," Purdue University, November, 2003.

"Base change and p-adic groups," Colloquium, Bucknell University, March, 2004.

"Nonstandard analysis: calculus without ε and δ," Bucknell University, March, 2004.

"Nonstandard analysis: calculus without ε and δ," Oberlin College, April, 2004.

"Nonstandard analysis," American University, February 9, 2005.

"Base change and K-types," Purdue University, March 29, 2005.

"Undergraduate research programs: How to start one; how to get your students into one," Ohio NExT Workshop, March 31, 2005.

"The local character expansion near a tame, semisimple element", Recent Trends in Endoscopy and Representation Theory (a conference in honor of E.-W. Zink), Berlin, October 20, 2005.

"Connectedness of centralizers: work of Steinberg", Harish-Chandra Research Institute, Allahabad, India, November 9–10, 2005.

"Representations of nilpotent groups", Colloquium: Tata Institute of Fundamental Research, Mumbai, India, November 17, 2005.

"Multiplicity one upon restriction", University of Toronto, March 8, 2006.

"Nonstandard analysis", University of Michigan Undergraduate Math Club, November 16, 2006.

"Multiplicity one upon restriction", Fields Institute Workshop on the Representation Theory of Reductive Algebraic Groups, University of Ottawa, January 21, 2007.

"Representation theory and p-adic numbers: What and why?", American University, February 1, 2007.

"Multiplicity one upon restriction", Purdue University, April 12, 2007.

"Towards a lifting of representations of finite reductive groups", University of Maryland, October 3, 2007.

"Representation theory and p-adic numbers: What and why?", Colloquium: Georgetown University, October 19, 2007.

"Towards a lifting of representations of finite reductive groups", University of California, San Diego, January 10, 2008.

"Towards a lifting of representations of finite reductive groups", Special Session on Geometric and Combinatorial Representation Theory, AMS Meeting #1037, Lousiana State University, Baton Rouge, March 30, 2008.

"Towards a lifting of representations of finite reductive groups", Special Session on p-adic Groups and Automorphic Forms, AMS Meeting #1041, Vancouver, Canada, October 4–5, 2008.

Contributed Lectures.

"A construction of supercuspidal representations," Joint Mathematics Meetings, Baltimore, January, 1998.

"Calculus without ε and δ," Mathematics Division Colloquium, The University of Akron, March, 1999.

"A Formula for Fibonacci Numbers," Seminar on Linear Algebra and Number Theory, The University of Akron, November, 1999.

"Infinity," Natural Sciences Colloquium, Honors Program, University of Akron, September, 2000.

"Profinite groups", Akron Algebra Alliance Seminar, University of Akron, 18 September, 2001.

"Harmonic analysis on groups", Akron Algebra Alliance Seminar, University of Akron, 25 September, 2001.

"Pointless spaces and valueless functions," University of Akron Mathematics Seminar, 12 February, 2002.

"Calculus without ε and δ", Akron SMAC, 8 October, 2002.

"Distributions: How (and why) to differentiate discontinuous functions", Akron SMAC, 15 October, 2002.

"Nonstandard analysis", University of Akron Summer REU program, 7 July, 2006.

"Nonstandard analysis", University of Akron Summer REU program, 17 July, 2007.

Other: Technical Report.

The Neighborhood Covering Heuristic (NCH) Approach for the General Mixed Integer Programming Problem, (with A. A. Sterns, Douglas Kline, and Scott Collins), Final Report completed for the Navy Personnel Research, Science, and Technology Division, Contract N00014-03-M-0254, Office of Naval Research, 2004.

Work in Progress.

Liftings of representations of finite reductive groups, (with Joshua Lansky), in preparation.

Research

Sponsored Research.

National Security Agency Young Investigator Grant, 2007–03/2009. $32,300.
National Science Foundation, *Algebra, Number Theory, and Applications: a research experience for undergradutes*, 2005–08. $162,921. (I became Principal Investigator in July, 2006.)
National Security Agency Young Investigator Grant, 2005–07. $30,000.
University of Akron Faculty Research Grant #1604, Summer, 2005.
Office of Naval Research, *N03-T004 Optimizing Human Resource Management Models*, July, 2003, $14,336.01.
National Security Agency Young Investigator Grant, 2002–04. $29,000.
University of Akron Faculty Research Grant #1470, Summer, 2000.
University of Akron Faculty Research Grant #1432, Summer, 1999.

Proposals Submitted or in Preparation.

National Science Foundation, *Focused Research Group: Characters, liftings, and types*, 09/01/2009–08/31/2012. Submitted 09/18/2008. $521,588.
National Science Foundation, *Aspects of harmonic analysis on p-adic groups*, 09/01/2009–08/31/2012. Submitted 10/07/2008. $115,702.
National Security Agency, *Aspects of harmonic analysis on p-adic groups*, 09/01/2009–08/31/2011. Submitted 11/05/2008. $40,165.

Teaching Responsibilities

Courses marked with an asterisk (∗) were designed by me. Courses marked with a dagger (†) were team taught.

American University

Courses taught

Linear Algebra	Fall 2007, Spring 2008
Calculus I	Fall 2007
Calculus II	Spring 2008
Modern Algebra	Fall, 2008
Calculus I (Honors)	Fall, 2008
Calculus II (Honors)	Spring, 2009
Rings and Fields	Spring, 2009
Independent Study:	

p-adic analysis (Erik Borke)	Spring, 2009
Summer projects supervised	
Erik Borke: Algebraic limits and Galois theory	2008
Hamman Samuel: Factorization and primality	2008
Honors course supplement supervised	
Erin Frankrone:	Spring, 2008
The University of Akron	
Courses taught	
Precalculus	F1998, S1999, F2002
Discrete Mathematics	F1998, S1999, S2001
Seminar on Chaos and Fractals* †	Spring 1999
Theory of Numbers*	Fall 1999
Math for Liberal Arts	F1999–S2002, S2004
Calculus with Business Applications	Spring 2000
Independent Study in Algebraic Topology*	Fall 2000
Discrete Structures (Computer Science)	Fall 2000
Topics: Galois Theory*	Fall 2001
Calculus I	Spring 2002
Independent Study: Abstract Algebra	Spring 2003
Algebraic Number Theory*	Spring 2003
Abstract Algebra I	F2003, F2004, F2006
Seminar: p-groups, Modules, Categories* †	Spring 2004
Abstract Algebra II	S2004, S2005
Excursions in Mathematics	Fall 2004
Topics: Applications of Group Actions*	Fall 2006
Fundamentals of Advanced Mathematics	Spring, 2007
Senior honors project supervised	
Applications of Algebraic Topology	Spring 2001
Master's theses and projects supervised	
Project: p-adic Numbers	Spring 2002
Project: Small Finite Groups	Spring 2003
Thesis: Groups of order 81	Spring 2006
Thesis: Nonstandard hulls of groups	Spring 2007
NSF-funded undergraduate research co-supervised	
Generalized Fibonacci-Lucas pairs	Summer 2005
Encrypted diplomatic correspondence	Summer 2005
Self-similar tilings of nilpotent Lie groups	Summer 2006
The University of Toronto: Courses taught	
Chaos, Fractals, and Dynamics*	S1997, S1998
Galois Theory*	Spring 1998
Linear Algebra	Spring 2006

The University of Chicago: Courses taught

Studies in Mathematics 2*	F1990, F1991, Winter 1994
Studies in Mathematics 1*	S1991, S1992, F1993, S1994

Service—American University

Hiring Committee, 2007–09.
Undergraduate Studies Committee, 2007–08.
Faculty Advisor, American University Hawaii Club, Spring, 2008.

Service—The University of Akron

Seminars Organized

Pure Mathematics Graduate Seminar (co-organized), Spring, 2004.
Akron Séminaire Mathématiques Appliquées et Cetera, 2002–03.
Akron Mathematics Seminar, Spring, 2002. Speakers came from four universities.
Akron Algebra Alliance seminar, Fall, 2001. Participants came from three universities.
Seminar on Linear Algebra and Number Theory for undergraduates and graduates, November, 1999. (co-organized)

Colloquium Committee, 1999–2000, 2002–03 (Chair), 2003–07
Restarted the colloquium series in the fall of 2002.

Mathematics Graduate Advisor, June 2006–07.

Committee to Revise Mathematics Reappointment, Promotion, and Tenure Guidelines, Spring, 2007.

Hiring
Mathematics Search Committee: 2006–07.
Department Chair Search Committee: 2000–01.
Computer Science Search Committee: 1999–2000.

Scholarship Committee, 2005–07.

Hearing Board Pool, 2001–2002

Faculty Advisory Committee, Zips Programming Network, 2004–05

Library Committee, 1998–99 and 2002–03.

Enrichment and outreach Co-organizer of student poster sessions (2003, 2004, and 2006). Typical participation: about 100 students per session.

Memberships and Professional Activities

External Examiner, PhD thesis of Jeremy Sylvestre, University of Toronto, 2008.
Member: American Mathematical Society

Member: Mathematical Association of America
Ohio Section MAA Committee on Student Members, 2002–07
Reviewer for *Mathematical Reviews*, 2003–present
Reviewer for *Zentralblatt für Mathematik*, 2000–present
Panelist for the National Science Foundation: August, 2006 and November, 2008.
Referee: Natural Sciences and Engineering Research Council of Canada, January, 2009.
Referee for *J. reine angew. Math.*, *J. Lie Theory*, and the *College Math Journal*
Honors Examiner, Oberlin College, April, 2004.
Referee for the National Science Foundation, AY2000, 2004, 2005
Referee for the Center for Integrative Natural Science and Mathematics, 2002
Co-organizer: Special Session on Representations of Reductive Groups, AMS Regional Meeting, Evanston, October, 2004.
Scientific Organizing Committee: Midwest Representation Theory Conference, Ann Arbor, Michigan, September 30 – October 2, 2005.

Miscellaneous

Spinoza Practice Club: Fall 2007 – present.
University Chamber Players: Fall 2007; Fall 2008; Spring 2009
AU Summer Festival Orchestra: August 18, 2008.
Attended Ann Ferren Teaching Conference: January 9, 2009.