Biographical Data

Daniel C. Cohen
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Contents

1.2 Teaching

1.2.1 Documentation of teaching activities

1.2.1.1. Teaching Evaluations

The evaluations below come from twelve standard questions formerly used by all faculty in the Department of Mathematics, College of Arts and Sciences. These questions are answered by students based on the scale of A = 4, B = 3, C = 2, D = 1, and E = 0, with A being the highest. The answers are grouped together to form the following scores:

Technical Quotient (TQ): the average of the instructor's scores on the following questions.

Well Preparedness	Proper Grade Emphasis	Timely Test Returns	Fair Grades
Budgets Time Well	Blackboard Technique	Time to Ask Questions	

Attitude Quotient (AQ): the average of the instructor's scores on the following questions.

Clear Presentation	Evokes Interest	Concerned	Overall Rating

Overall Rating (Rating): the average of the instructor's score on the question "Overall, how would you rate your instructor as a teacher?"

My scores are listed in the table below. When another section of the same course was taught in the same semester, the average scores for all sections are given as well.

Course, Section, and Semester	TQ Cohen	TQ all sections	AQ Cohen	AQ all sections	Rating Cohen	Rating all sections
Math 1550-19 F-95	3.62	3.27	3.42	2.79	3.68	2.96
Math 1431-07 S-96	3.11	3.55	2.36	3.34	2.62	3.45
Math 1550-11 S-96	3.44	3.37	2.89	3.12	3.19	3.26
Math 1550-14 F-96	3.55	3.27	3.55	2.86	3.71	3.00
Math 1550-29 F-96	3.76	3.27	3.54	2.86	3.62	3.00
Math 2057-03 S-97	3.34	3.44	2.95	3.17	2.92	3.29
Math 2090-03 F-97	3.69	3.53	3.58	3.40	3.75	3.47
Math 4200-02 F-97	3.95	3.70	3.81	3.56	4.00	3.71
Math 2090-05 S-98	3.82	3.59	3.70	3.48	3.88	3.67
Math 7590-01 S-98	3.95		3.92		3.67	
Math 2057-05 F-98	3.52	3.10	3.27	2.74	3.46	2.84
Math 2065-01 F-98	3.46	3.38	3.32	3.13	3.45	3.31
Math 1552-04 F-99	3.56	3.44	3.45	3.14	3.67	3.30
Math 1552-06 F-99	3.75	3.44	3.49	3.14	3.76	3.30
Math 7512-01 S-00	3.82		3.73		3.80	
Math 2090-03 F-00	3.36	3.47	3.16	3.33	3.33	3.46
Math 2090-04 F-00	3.59	3.47	3.41	3.33	3.59	3.46
Math 7590-01 S-01	3.67		3.64		3.86	
Math 2090-04 F-01	3.39	3.44	3.09	3.16	3.28	3.33
Math 1550-38 F-02	3.48	3.34	2.97	2.97	3.06	3.08
Math 7520-01 F-02	3.95		3.92		4.00	

The evaluations below come from the question "Overall the instructor was an effective teacher" currently used by all faculty in the Department of Mathematics, College of Arts and Sciences. This question is answered by students based on:

strongly agree	agree	undecided	disagree	strongly disagree
5	4	3	2	1

Course, Section, and Semester		Cohen	All Math Courses
Math 1552-04	S-03	4.29	4.28
Math 7590-02	S-03	5.00	4.28
Math 2057-04	F-03	3.97	4.31
Math 1550-12	S-04	4.41	4.33
Math 4153-01	S-04	4.46	4.33
Math 7512-01	S-05	4.91	4.36

1.2.1.2. Teaching History

The table below lists the courses I have taught at LSU, together with the number of students enrolled in each section.

Course & Semester		Title	Enrolled
Math 1550-19	F-95	Calculus I	41
Math 1431-07	S-96	Business Calculus	39
Math 1550-11	S-96	Calculus I	40
Math 1550-14	F-96	Calculus I	31
Math 1550-29	F-96	Calculus I	39
Math 2057-03	S-97	Calculus III	39
Math 2090-03	F-97	Elementary Differential Equations and Linear Algebra	29
Math 4200-02	F-97	Abstract Algebra	13
Math 2090-05	S-98	Elementary Differential Equations and Linear Algebra	42
Math 7590-01	S-98	Topics in Topology: Arrangements of Hyperplanes	3
Math 7999-10	Su-98	Readings in Topology: Differential Topology	5
Math 2057-05	F-98	Calculus III	39
Math 2065-01	F-98	Elementary Differential Equations	37
Math 1552-04	F-99	Calculus II	35
Math 1552-06	F-99	Calculus II	28
Math 7512-01	S-00	Topology II	9
Math 2090-04	F-01	Elementary Differential Equations and Linear Algebra	39
Math 7999-09	Su-02	Readings in Topology: Morse Theory	1
Math 1550-38	F-02	Calculus I	35
Math 7520-01	F-02	Algebraic Topology	7
Math 1552-04	S-03	Calculus II	33
Math 7590-02	S-03	Topics in Topology: Cohomology Theory	5
Math 2057-04	F-03	Calculus III	38
Math 7590-01	F-03	Topics in Topology: Geometric Topology	7

Course & Semester	Title	Enrolled
Math 1550-12 S-04	Calculus I	32
Math 4153-01 S-04	Finite Dimensional Vector Spaces	21
Math 7999-14 S-04	Readings in Topology	1
Math 4999-04 Su-04	Undergraduate Readings in Mathematics	1
Math 7999-21 Su-04	Readings in Topology	1
Math 9000-22 F-04	Doctoral Dissertation Research	1
Math 7512-01 S-05	Topology II	15
Math 9000-23 S-05	Doctoral Dissertation Research	1
Math 9000-23 Su-05	Doctoral Dissertation Research	1
Math 2085-01 F-05	Linear Algebra	38
Math 7590-01 F-05	Topics in Topology: Geometric Topology	13
Math 7999-12 F-05	Readings in Topology	1
Math 9000-22 F-05	Doctoral Dissertation Research	1

1.2.2 Listing of publications concerning instruction

1.2.2.1. Textbooks None.

1.2.2.2. Shorter Works None.

1.2.2.3. Edited books with scholarly introductions or notes by the editor None.

1.2.2.4. Recordings None.

1.2.2.5. Instructional material None.

1.2.2.6. Miscellaneous None.

1.2.3 Instructional publications accepted but not yet published

None.

1.2.4 Participation

1.2.4.1. Professional Meetings, etc., on teaching None.

1.2.4.2. Local instructional activities None.

1.2.5 Other instructional activities or contributions to the profession

1.2.5.1. Membership in professional organizations None.

1.2.5.2. Administrative duties None.

1.2.5.3. New teaching methods/material developed, etc.

Instructional Contributions

In Fall 1997, one student took my MATH 4200, Abstract Algebra course with Honors. This "honors option" consisted of the student pursuing individually selected topics which arose in the course, but were not (fully) developed there. These topics, which I chose guided in part by interests expressed by the student, included the Chinese Remainder Theorem, Public Key Encryption, and the Fundamental Theorem of Algebra. I used the last of these to serve as an introduction to functions of one complex variable.

As indicated above, the focus of the topics course I taught in Spring 1998 was on arrangements of hyperplanes. This course provided an introduction to topological and combinatorial aspects of these objects, and the relationship between these aspects. Within this framework, I also used the course to introduce a variety of related topics, including braid theory, stratified Morse theory, Fox's free differential calculus, etc.. At the request of several students in this course, I directed a Reading Course in the following semester (Summer 1998). The focus of this reading course, which also attracted a number of students from outside my topics course, was on Differential Topology, one of the subjects which arose in the topics course. I subsequently directed a number of other reading courses, both at the graduate and undergraduate levels.

Based on my experiences with the course in Fall 1997 and Spring 1998, I administered a revision of the syllabus for MATH 2090, Elementary Differential Equations and Linear Algebra, in Summer 1998, together with several colleagues in the Mathematics Department, and in cooperation with a committee from the Electrical Engineering Department.

In the 2002-2003 academic year, I taught sections of Calculus I and II geared towards students in the new IT Residential College. In these sections, the standard Calculus curriculum was augmented by computer-based lab assignments using the symbolic computation program *Mathematica*, and by exposure to the internet-based homework delivery package *WeBWorK*. The *Mathematica* labs, which provided students with both an additional perspective on the subject matter, and a powerful tool for use in this course and subsequent courses, were developed with Professor N. Stoltzfus, who taught analogous sections of Calulus I.

In Spring 2004, I integrated the internet-based homework delivery package *WeBWorK* into both my Calculus I course (MATH 1550) and my senior-level Linear Algebra course (MATH 4153). In both courses, students were given regular (computational) homework assignments using this package, which provides immediate feedback. In the Calculus course, this gave students strong encouragement to work regularly with the material, while in the linear algebra course, the computer-based homework assignments augmented other, more conceptual homework problems assigned from the text. Responses from students in both classes were very positive, and I will continue using *WeBWorK* in future undergraduate courses, including my sophomore-level Linear Algebra course (MATH 2085) in Fall 2005.

I have written and administered the Department of Mathematics Graduate Core II Topology Exam on several occasions.

Mentoring

Thesis Advisor and General Examination Committee Chair for C. Egedy, Department of Mathematics, 2005–present.

Thesis Advisor and General Examination Committee Chair for G. Pruidze, Department of Mathematics, 2003–present.

Advisory Committee Chair for G. Tripathi, Department of Mathematics, 2005–present.

Communicating Mathematics Mentor for M. Cohen, Department of Mathematics, 2005.

Minor Professor, Graduate Student Advisory Committee for L. Moscovich, Department of Computer Science, 1999-present. Mr. Moscovich defended his Ph.D. thesis in Fall 2004.

Member, General Exam Committee and Doctoral Exam Committee for M. Holcomb, Department of Mathematics, 2001–2003.

Communicating Mathematics Mentor for G. Pruidze, Department of Mathematics, 2003.

Member, General Exam Committee for R. Cazucu, Department of Mathematics, 2002.

Member, General Exam Committee for G. Cazucu, Department of Mathematics, 2001.

Member, Doctoral Exam Committee for A. Cruz, Department of Mathematics, 2000.

Communicating Mathematics Mentor for R. Dutsch, Department of Mathematics, 2000.

Dean's Representative, General Exam Committee and Doctoral Exam Committee for R. Arts, Department of Industrial and Manufacturing Systems Engineering, 1999–2000.

1.2.6 Awards, etc., that show recognition of teaching achievement

Nominee, Alpha Lambda Delta Outstanding Freshman Teacher Award, 1997.

1.2.7 Research Support/Grant Activities pertaining to teaching

None.

1.3 Research and Creative Activity

1.3.1 Listing of research publications

1.3.1.1. Books and Monographs None.

1.3.1.2. Shorter Works

1. *On the Künneth formula for intersection cohomology*, with M. Goresky and L. Ji, Transactions of the American Mathematical Society **333** (1992), 63–69; MR1052904.
2. *Cohomology and intersection cohomology of complex hyperplane arrangements*, Advances in Mathematics **97** (1993), 231–266; MR1201844.
3. *On Milnor fibrations of arrangements*, with A. Suciu, Journal of the London Mathematical Society **51** (1995), 105–119; MR1310725.
4. *The Chen groups of the pure braid group*, with A. Suciu, in: The Čech Centennial: A Conference on Homotopy Theory, Contemporary Mathematics, vol. 181, American Mathematical Society, 1995, pp. 45–64; MR1320987.

5. *The braid monodromy of plane algebraic curves and hyperplane arrangements*, with A. Suciu, Commentarii Mathematici Helvetici **72** (1997), 285–315; MR1470093.
6. *Homology of iterated semidirect products of free groups*, with A. Suciu, Journal of Pure and Applied Algebra **126** (1998), 87–120; MR1600518.
7. *Morse inequalities for arrangements*, Advances in Mathematics **134** (1998), 43–45; MR1612383.
8. *Alexander invariants of complex hyperplane arrangements*, with A. Suciu, Transactions of the American Mathematical Society **351** (1999), 4043–4067; MR1475679.
9. *Characteristic varieties of arrangements*, with A. Suciu, Mathematical Proceedings of the Cambridge Philosophical Society **127** (1999), 33–53; MR1692519.
10. *On the cohomology of discriminantal arrangements and Orlik-Solomon Algebras*, in: Arrangement, Tokyo 1998, Advanced Studies in Pure Mathematics, vol. 27, Mathematical Society of Japan, 2000, pp. 27–49; MR1796892.
11. *Arrangements and local systems*, with P. Orlik, Mathematical Research Letters **7** (2000), 299–316; MR1764324.
12. *Monodromy of fiber-type arrangements and orbit configuration spaces*, Forum Mathematicum **13** (2001), 505–530; MR1830245.
13. *Some cyclic covers of complements of arrangements*, with P. Orlik, Topology and its Applications **118** (2002), 3–15; MR1877712.
14. *Lie algebras associated to fiber-type arrangements*, with F. Cohen and M. Xicoténcatl, International Mathematics Research Notices **2003**, no. 29, 1591–1621; MR1979686.
15. *Triples of arrangements and local systems*, Proceedings of the American Mathematical Society **130** (2002), 3025–3031; MR1908926.
16. *Gauss-Manin connections for arrangements, I. Eigenvalues*, with P. Orlik, Compositio Mathematica **136** (2003), 299–316; MR1977008.
17. *On representations and K-theory of the braid groups*, with A. Adem and F. Cohen, Mathematische Annalen **326** (2003), 515–542; MR1992276.
18. *Gauss-Manin connections for arrangements, II. Nonresonant weights*, with P. Orlik, American Journal of Mathematics **127** (2005), 569–594; MR2141645.
19. *Nonresonance conditions for arrangements*, with A. Dimca and P. Orlik, Annales de l'Institut Fourier (Grenoble) **53** (2003), 1883–1896; MR2038782.
20. *Resonant local systems on complements of discriminantal arrangements and $\mathfrak{sl}_2$ representations*, with A. Varchenko, Geometriae Dedicata **101** (2003), 217–234; MR2017904.
21. *Torsion in Milnor fiber homology*, with G. Denham and A. Suciu, Algebraic & Geometric Topology **3** (2003), 511–535; MR1997327.
22. *Gauss-Manin connections for arrangements, III. Formal connections*, with P. Orlik, Transactions of the American Mathematical Society **357** (2005) 3031–3050; MR2135734.

1.3.1.3. Edited books None.

1.3.1.4. Collections of previously unpublished material None.

1.3.1.5. Recordings None.

1.3.1.6. Miscellaneous None.

1.3.1.7. Electronic dissemination of research

Prior to publication, I post my papers in the Mathematics arXiv (`arXiv.org`). This is part of the e-Print archive of physics, mathematics, and computer science maintained at Los Alamos, which is freely available and is mirrored in 15 countries worldwide.

1.3.2 Research publications accepted but not yet published

None.

1.3.3 Other creative and artistic contributions

1.3.3.1. Original works presented None.

1.3.3.2. Other creative activities

Preprints

1. *Gauss-Manin connections for arrangements, IV. Nonresonant eigenvalues*, with P. Orlik, MSRI Preprint #2005–007, 24 pages, submitted for publication; `math.AG/0502111`.
2. *Boundary manifolds of projective hypersurfaces*, with A. Suciu, MSRI Preprint #2005–006, 24 pages, submitted for publication; `math.AT/0502506`.

Work in progress

1. *Boundary manifolds of line arrangements*, with A. Suciu.
2. *Resonance and critical points*, with G. Denham, M. Falk, and A. Varchenko.
3. *Topological complexity of arrangements and configuration spaces*, with G. Pruidze.
4. *On injective homomorphisms for orbit pure braid groups*, with F. Cohen and S. Prassidis.
5. *Stratified Morse theory in arrangements*, with P. Orlik.

1.3.4 Participation in Other Professional Meetings

Organization

1. Topology of Arrangements and Applications, Mathematical Sciences Research Institute Workshop, Berkeley, CA, October 2004. D. Cohen, M. Falk, P. Orlik, A. Suciu, H. Terao, and S. Yuzvinsky co-organizers.
2. Special Session on Arrangements in Topology and Alegbraic Geometry, American Mathematical Society Spring Southeastern Sectional Meeting, Louisiana State University, Baton Rouge, LA, March 2003. D. Cohen and A. Suciu co-organizers.
3. Special Session on Arrangements of Hyperplanes, American Mathematical Society Fall Central Sectional Meeting, University of Wisconsin, Madison, WI, October 2002. D. Cohen, P. Orlik, and A. Shepler co-organizers.
4. NSF-CBMS Regional Research Conference - Arrangements and Mathematical Physics - January 2002, Louisiana State University, Baton Rouge, LA, January 2002.
5. Special Session on Braid Groups and Configuration Spaces, American Mathematical Society National Meeting, New Orleans, LA, January 2001. D. Cohen and N. Stoltzfus co-organizers.
6. Arrangements in Boston: A Conference on Hyperplane Arrangements, Northeastern University, Boston, MA, June 1999. D. Cohen, D. Massey, and A. Suciu co-organizers.

Papers Presented

1. *Pure braid monomorphisms*, Hyperplane Arrangements Workshop, Pacific Institute for the Mathematical Sciences, University of British Columbia, Vancouver, BC, Canada, August 2005.
2. *Boundary manifolds of projective hypersurfaces*, Groups, Homotopy & Configuration Spaces: Conference in Honor of Fred Cohen, University of Tokyo, Tokyo, Japan, July 2005.
3. *Resonance and critical points*, Hyperplane Arrangements: Cohomology and Rational Homotopy, Banff International Research Station for Mathematical Innovation and Discovery, Banff, Alberta, Canada, June 2005.
4. *Gauss-Manin connections for arrangements*, Arrangements of Hyperplanes - Algebra, Combinatorics, Geometry, and Topology, Centro Stefano Franscini, Ascona, Switzerland, May 2005.
5. *Local systems on complements of arrangements*, Introductory Workshop on Hyperplane Arrangements and Applications, Mathematical Sciences Research Institute, Berkeley, CA, August 2004.
6. *Boundary manifolds of arrangements*, Introductory Workshop on Hyperplane Arrangements and Applications, Mathematical Sciences Research Institute, Berkeley, CA, August 2004.
7. *The fundamental group and cohomology ring of the boundary of a line arrangement*, Special Session on Geometry and Combinatorics, American Mathematical Society National Meeting, Phoenix, AZ, January 2004.
8. *Cohomology of the boundary of a line arrangement*, Special Session on Group Cohomology in Algebra and Geometry, American Mathematical Society Fall Southeastern Section Meeting, University of North Carolina, Chapel Hill, NC, October 2003.
9. *Discriminantal arrangements, critical points, and local systems*, Special Session on Arrangements of Hyperplanes, American Mathematical Society Fall Central Sectional Meeting, University of Wisconsin, Madison, WI, October 2002.
10. *Gauss-Manin connections for arrangements*, Braids in Cortona, Cortona, Italy, June 2002.
11. *Triples of arrangements and local systems*; *Characteristic varieties and links at infinity*; *Does resonance propogate?*, Mini-Workshop: Cohomology Jumping Loci, Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach, Germany, March 2002.
12. *Triples of arrangements and local systems*, CombinaTexas Conference (poster session), Texas A&M University, College Station, TX, April 2000.
13. *On the cohomology of braid groups with symplectic coefficients*, Special Session on Braid Groups and Configuration Spaces, American Mathematical Society National Meeting, New Orleans, LA, January 2001.
14. *Lie algebras associated to fiber-type arrangements*, Workshop on Arrangements, Forschungsinstitut für Mathematik, Eidgenössische Technische Hochschule Zürich (ETH Zürich), Switzerland, December 2000.
15. *Triples of arrangements and local systems*, Special Session on Arrangements of Hyperplanes, American Mathematical Society Fall Eastern Sectional Meeting, Columbia University, New York, NY, November 2000.

16. *Braid groups, configuration spaces, and fiber-type arrangements*, Lehigh Geometry and Topology Conference, Lehigh University, Bethlehem, PA, June 2000.
17. *Lie algebras associated to fiber-type arrangements*, CombinaTexas Conference (poster session), Texas A&M University, College Station, TX, April 2000.
18. *Cohomology of fiber-type arrangements and Orlik-Solomon algebras*, Workshop on Mathematics Related to Arrangements of Hyperplanes, Tokyo Metropolitan University, Tokyo, Japan, July 1998.
19. *Cohomology of fiber-type arrangements*, Fundamental Groups in Geometry (poster session), Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach, Germany, May 1998.
20. *Monodromy of fiber-type arrangements*, Minisymposium on Arrangements, Mathematics Ph.D. Centennial Conference, University of Wisconsin, Madison, WI, May 1997.
21. *Braid monodromy and fundamental groups of arrangements*, Special Session on Hyperplane Arrangements, American Mathematical Society Spring Central Sectional Meeting, University of Iowa, Iowa City, IA, March 1996.
22. *Homology of iterated semidirect products of free groups*, Colleque sur les Arrangements d'Hyperplans, Centre International de Rencontres Mathématiques, Marseille, France, July 1994.
23. *Milnor fibrations of arrangements*, Workshop on Hyperplane Arrangements, University of Wisconsin, Madison, WI, October 1992.
24. *Local coefficient cohomology of complex hyperplane arrangements*, Workshop on Hyperplane Arrangements, University of Wisconsin, Madison, WI, October 1991.

Participation

1. Special Semester in Hyperplane Arrangements and Applications, Mathematical Sciences Research Institute, Berkeley, CA, Fall 2004.
2. Combinatorics of Lie Type, University of Wisconsin, Madison, WI, June 2000.
3. Knots, Braids, and Mapping Class Groups, Columbia University, New York, NY, March 1998.
4. Workshop on Geometric Combinatorics, Mathematical Sciences Research Institute, Berkeley, CA, February 1997.
5. American Mathematical Society Spring Southeastern Section Meeting, Louisiana State University, Baton Rouge, LA, April 1996.
6. Southeastern International Conference on Combinatorics, Graph Theory and Computing, Louisiana State University, Baton Rouge, LA, February 1996.

1.3.5 Other scholarly or creative activities

1.3.5.1. Membership in professional organizations

Member, American Mathematical Society

1.3.5.2. Administrative duties — None.

1.3.5.3. New standard testing methods, etc. — None.

1.3.6 Other awards, etc., that show recognition of scholarly achievement

Invited Lectures

1. *Algebra and Combinatorics Seminar*, Texas A&M University, Fall 2005.
2. *Virtual Topology Seminar*, LSU/University of Iowa, February 2005.
3. *Combinatorics Seminar*, Massachusetts Institute of Technology, Cambridge, MA, January 2005.
4. *Graduate Alumni Conference*, Northeastern University, Boston, MA, January 2005.
5. *Working Seminar on Maximum Likelihood*, University of California, Berkeley, CA, October 2004.
6. *Learning Seminar*, Special Semester on Hyperplane Arrangements and Applications, Mathematical Sciences Research Institute, Berkeley, CA, Fall 2004.
7. *Metroplex AGANT Seminar*, University of North Texas, Denton, TX, April 2004.
8. *Colloquium*, Mississippi State University, Mississippi State, MS, February 2003.
9. *Colloquium*, Michigan Technological University, Houghton, MI, May 2002.
10. *Topology Seminar*, University of Wisconsin, Madison, WI, May 2002.
11. *Colloquium*, Northern Arizona University, Flagstaff, AZ, April 2002.
12. *Topology Seminar*, University of Rochester, Rochester, NY, May 2001.
13. *Topology Seminar*, University of Wisconsin, Madison, WI, February 2001.
14. *Colloquium*, Louisiana State University, Baton Rouge, LA, October 2000.
15. *Geometry-Algebra-Singularities-Combinatorics Seminar*, Northeastern Univ., Boston, MA, June 1999.
16. *Topology Seminar*, University of Illinois, Chicago, IL, April 1999.
17. *Topology Seminar*, University of Wisconsin, Madison, WI, February 1999 and April 1999.
18. *Colloquium*, University of South Alabama, Mobile, AL, May 1996.
19. *Colloquium*, Louisiana State University, Baton Rouge, LA, March 1995.
20. *Geometry-Algebra-Singularities Seminar*, Northeastern University, Boston, MA, June 1994.
21. *Topology Seminar*, University of Oregon, Eugene, OR, March 1993.
22. *Colloquium*, California Polytechnic State University, San Luis Obispo, CA, February 1993.
23. *Topology Seminar*, University of Wisconsin, Madison, WI, October 1992.
24. *Valley Geometry Seminar*, University of Massachusetts, Amherst, MA, March 1992.

Research Recognition

General Member, Mathematical Sciences Research Institute, Berkeley, CA, 2004.

Nominee, LSU Distinguished Faculty Award, 2003.

Recipient, LSU Alumni Association Faculty Excellence Award, 2002.

Recipient, Phi Kappa Phi/LSU Alumni Association Non-Tenured Faculty Award, 2001.

Honorary Fellow, Department of Mathematics, University of Wisconsin-Madison, 1999.

Research Fellowship, LSU College of Arts & Sciences, 1999.

Nominee, Phi Kappa Phi/LSU Alumni Association Non-Tenured Faculty Award, 1999.

Nominee, Phi Kappa Phi/LSU Alumni Association Non-Tenured Faculty Award, 1998.

1.3.7 Other research Support/Grant Activities

Co-PI, *LSU VIGRE Proposal*, National Science Foundation, $3151921, 2005–2010, pending.

PI, *Topological Aspects of Arrangements*, National Security Agency Grant #H98230-05-1-0055, $42924, 2005–2007.

PI, *Boundary Manifolds of Arrangements*, LSU Council on Research, Faculty Research Grant, $9052, 2004–2005.

PI, *Arrangements and Local Systems*, National Security Agency Grant #MDA904-02-1-0009, $25994, 2002–2004.

PI, *NSF-CBMS Regional Research Conference - Arrangements and Mathematical Physics - January 2002*, National Science Foundation Grant #DMS-0085643, $27364, 2001–2002.

PI, *Arrangements of Hyperplanes*, National Security Agency Grant #MDA904-00-1-0038, $25952, 2000–2002.

PI, *Topology of Arrangements*, LEQSF Research Competitiveness Subprogram
Grant #LEQSF(1999-2002)-RD-A-01, $24075, 1999–2002.

Co-PI, *Conference on Hyperplane Arrangements*, National Science Foundation Grant #DMS-9816607, $5000, 1999–2000.

PI, *Arrangements and Hypergeometric Integrals*, LSU Council on Research Summer Stipend Program, $5000, 1999.

PI, *Travel Grant*, NSF/EPSCoR Travel Grant for Emerging Faculty, $1000, 1998.

PI, *Topology of Arrangements*, LEQSF Research Competitiveness Subprogram
Grant #LEQSF(1996-99)-RD-A-04, $46350, 1996–1999.

PI, *Topology of Arrangements*, LSU Council on Research Summer Stipend Program, $4000, 1996.

1.3.8 Theses/dissertations directed

2 C. Egedy and G. Pruidze (current students)

1.3.9 Major areas of research interest

Topology and Combinatorics.

Arrangements of hyperplanes and subspaces, braid groups, configuration spaces.

1.4 Service

1.4.1 Student organizations advised

Faculty advisor, Pi Mu Epsilon, undergraduate mathematics honor society, 1996–present.
The LSU chapter of this society is currently dormant.

Faculty advisor, Racquetball Club @ LSU, 2001–present.

1.4.2 Recruitment of students and faculty

I have served on the Mathematics Department Hiring and Graduate Recruiting Committees. I regularly review applicant files, and make myself available to interview job applicants and prospective students who are considering coming to LSU for employment or graduate study in mathematics.

1.4.3 University service

Member, Mathematics Department Hiring Committee, 2005–present.
Member, Mathematics Department VIGRE Committee, 2002–present.
Member, Mathematics Department Graduate Recruiting Committee, 2002–2004.
Member, Mathematics Department 1021 College Algebra Redesign Committee, 2004.
Member, Mathematics Department Executive Committee, 2002–2004.
Member, Institutional Screening Committee, LEQSF Enhancement Proposals, 2001.
Member, Mathematics Department Executive Committee, 2001.
Member, Mathematics Department Hiring Committee, 2000–2003.
Member, Mathematics Department Ad Hoc Committee on Improvement, 2000–2001.
Member, Mathematics Department Program Review Self-Study Committee, 1998–1999.
Member, Chancellor's Distinguished Lectureship Series Selection Panel, 1998.
Member, Mathematics Department Executive Committee, 1998.
Member, Mathematics Department Internal Review Committee, 1997–1998.
Fall transfer advising, 1997.

1.4.4 Professional service

1.4.4.1. Advisory boards, commissions, or agencies None.

1.4.4.2. Journals edited, manuscripts refereed, etc.

Referee
Advanced Studies in Pure Mathematics
Advances in Mathematics
Algebraic & Geometric Topology
American Mathematical Monthly
Compositio Mathematica
International Journal of Mathematics and Mathematical Sciences
Pacific Journal of Mathematics
Proceedings of the American Mathematical Society
Topology and its Applications
Transactions of the American Mathematical Society
Tokyo Journal of Mathematics

Guest Editor	"Arrangements in Boston: a Conference on Hyperplane Arrangements", *Topology and its Applications*, Special Issue, Volume **118**, Issues 1–2 (2002)
Reviewer	*Mathematical Reviews* *National Security Agency, Mathematical Sciences Program* *Natural Sciences and Engineering Research Council of Canada*

1.4.5 Other external service

1.4.5.1. Art shows/science fairs judged

Capitol District Science Fair, February 2003.