

STEVE KASS

Department of Mathematics and Computer Science • Drew University • Madison, NJ 07940 • skass@drew.edu

EDUCATION

B.A. (Mathematics, senior exam passed with distinction), *Pomona College*, 1977
M.A. (Mathematics) *University of Wisconsin–Madison*, 1978
Ph.D. (Mathematics) *University of Wisconsin–Madison*, 1984, Thesis Advisor: Georgia M. Benkart

EXPERIENCE

Drew University

ASSOCIATE PROFESSOR OF MATHEMATICS AND COMPUTER SCIENCE	SEP 1993–PRESENT
ASSISTANT PROFESSOR OF MATHEMATICS AND COMPUTER SCIENCE	SEP 1988–AUG 1993
SCIENCE DIVISION CHAIR	AY 2002, 2003, 2006
DEPARTMENT CHAIR	JULY 2000–DEC 2003

Teaching: taught more than twenty different courses in mathematics, computer science, and statistics, including both first-year and senior seminars in both mathematics and computer science. Developed and taught several new two- and four-credit courses.

Drew University Extra-departmental

COLLEGE AND UNIVERSITY SERVICE:

Committee service since 2000: Compensation Committee, University Budget Committees (three terms, current), Size of the College Task Force (chaired), University Grievance Committee, Merit Pay Committee, Health Care Selection Committee, Health Care Benefits Review Committee, Dean's Council (two terms, current), EOS Advisory Committee (current), Compensation Monitoring Committee (current), Music Department Search Committee (current).
Implemented a mathematical algorithm now used at Drew to assign first-year seminars optimally based on student preferences.

INTERNATIONAL PROGRAMS: Co-directed (with Professor Bai) Summer 2004 DIS to China; will co-direct a second DIS to China in Summer 2007.

HONORS THESES: Member of five honors thesis committees since 2002: Physics (1), Computer Science (1), French (3, one as chair).

NEW JERSEY GOVERNOR'S SCHOOL IN THE SCIENCES

INSTRUCTOR	SUMMERS 1989–1997, 2003, 2005
ASSOCIATE DIRECTOR	SUMMERS 1992–1994
DIRECTOR	JAN 1995–JAN 1997

As instructor, taught Pascal, Scheme, C, and Database Systems, and led research projects in mathematics and computer science.

COURSEWORK: Completed Chinese 1, 2, 30, and 101 for credit at Drew, Spring 2002–Fall 2004.

PERFORMANCES: Solo voice recitals at Drew University (1994, 1995), member of Madrigal Singers (most recently Fall 2004)

Non-Drew

Reader, Advanced Placement Examinations in Computer Science, 2000, 2001, 2002, 2006.

Tenor Dessoiff Choirs^a, New York, since 1997. More than 25 Dessoiff-only concerts; many other engagements ranging from a WWF (World Wrestling Federation) television commercial to holiday benefits for the WWF (World Wildlife Foundation) and for the Metropolitan Museum of Art, to performances at major New York concert halls with visiting orchestras, including Cleveland (von Dohnányi), San Francisco (Tilson Thomas), ASO (Botstein), Brooklyn (Russell Davies), and the Mostly Mozart Festival Orchestra (Mozart's Requiem in Gerard Schwartz's farewell season). Occasional French language coach and music typesetter.

Post-doc, 1984–1988. Concordia University (Montreal), Centre de recherches mathématiques (University of Montreal), and Los Alamos National Laboratory. Research in infinite-dimensional Lie algebras and computational algebra; taught Pascal and Assembly language programming at Concordia.

^a <http://www.dessoiff.org>

AWARDS

Microsoft Most Valuable Professional award (SQL Server), 2001, 2002, 2003, 2004, 2005, 2006.

Microsoft Award for Customer Excellence, for contributions to Visual Studio 2005 beta testing.

American Society of Business Publication Editors, 2004 Western Region Bronze award

(category: technical article in a publication with circulation under 80,000) for “*The Business Rule Clue*.”

PUBLICATIONS, PRESENTATIONS, REVIEWING

MATHEMATICS

Book

1. Affine Lie algebras, Weight Multiplicities and Branching Rules, with R. Moody, J. Patera, and R. Slansky, 2 vols., University of California Press, 1991.

Peer-reviewed journal articles

2. Projectional entropy in higher dimensional shifts of finite type, with A Johnson and K Madden. *Complex Systems*, to appear.
3. A recursive formula for characters of simple Lie algebras. *Journal of Algebra* 137 (1991), no. 1, 126-144.
4. Explicit decompositions of some tensor products of modules for simple complex Lie algebras. *Communications in Algebra* 15 (1987), no. 11, 2251—2261

Refereed conference proceedings

5. Weight multiplicities for affine Kac-Moody algebras, with G. Benkart, in Modern Trends in Lie Algebra Representation Theory, V. Futorny and D. Pollack eds., Queens U. Press (1994) 1-12.
6. Dimensions, indices and congruence classes of representations of affine Kac-Moody algebras (with examples for affine E8), Super Field Theories, with J. Patera, NATO Adv. Sci. Inst. Ser. B Phys., 160, Plenum, New York, 1987.
7. Some explicit calculations in the Kac-Moody algebra $A_1(1)$, in *Proceedings of the Montreal Conference on Infinite Dimensional Lie Algebras and their Applications*, World Scientific, 1986
8. On the steady state of an age dependent model for malaria, with RH Elderkin, DP Berkowitz, FA Farris, CF Gunn, FJ Hickernell, FI Mansfield, and RG Taranto, *Nonlinear Systems and Applications: An International Conference* (V Lakshmikantham, ed.), Academic Press, New York, 1977, pp. 491-512

Proceedings (editor)

9. *Proceedings of the Montreal Conference on Infinite Dimensional Lie Algebras and their Applications*, World Scientific, 1986

COMPUTER SCIENCE

Book supplement

10. A Laboratory Manual for Computer Science in Pascal, for the text Pascal by Example (by Barry Burd), 1994.

Technical editing of books

11. Inside Microsoft SQL Server 2005: T-SQL Querying, by Itzik Ben-Gan, MS Press, 2006.
12. Inside Microsoft SQL Server 2005: T-SQL Programming, by Itzik Ben-Gan, MS Press, 2006.

Peer-reviewed articles

13. Statistical Process Control, T-SQL Solutions, Penton Media, May 2002.
14. The Business Rule Clue, SQL Server Magazine, Penton Media, April, 2003.

Usenet posts

15. More than 10,000 Usenet posts answering questions from the public on database programming²

Invited conference presentations

16. “Use the Right Data Type,” SQL Server Magazine Live!, Orlando, October 2002.
17. “Arrays in SQL,” SQL Connections, Palm Springs, October 2003.
18. “Do More with SQL,” SQL Connections, Palm Springs, October 2003.
19. “When Statistics Aren’t Enough,” SQL Connections, Palm Springs, October 2003.
20. “Row-Level Security in SQL Server 2000 and 2005” (with Sharon Dooley), PASS Community Summit, Grapevine, TX,

² <http://groups.google.com/groups/search?q=skass%40drew.edu+sqlserver>

October, 2005.

Invited talks

21. "Graphical Query Plans," NY SQL Server Users Group (nyc.sqlservercentral.com), July 2005

22. "Tuning and Optimization," NY SQL Server Users Group, September 2006

23. "SQL Server 2005 Optimization," NY SQL Server Users Group, June 2007

Invited presentation (content provided by the organizers)

24. "Defenses and Countermeasures—Secure Your ASP.NET Applications from Hackers," Microsoft DevDays, Newark, February 2004.

25. "Defenses and Countermeasures—Secure Your ASP.NET Applications from Hackers," Microsoft DevDays, New York, March 2004.

STATISTICS

Reviewing

26. Reviewer for the Journal of Statistics Education, 2005, 2007.

Unreviewed article

27. (parody) Insulin's metabolic effects might be long term, <http://users.drew.edu/skass/Parody.doc>

OTHER

Report (co-editor and contributor)

28. *The OI Report: Critical Review of the Treatment & Prophylaxis of HIV-Related Opportunistic Infections*, TAG (Treatment Action Group), New York, 1998.