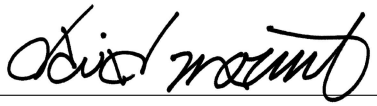
David M. Mount
Curriculum Vitae
November 4, 2009

I certify that the following curriculum vitae is a current and accurate statement of my professional record.

Signature:  Date: November 4, 2009

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Affiliation and Rank

Department of Computer Science (75%)
Institute for Advanced Computer Studies (UMIACS) (25%)

Rank: Professor (since August, 1999)

Research Interests

The design, analysis, and implementation of data structures and algorithms for geometric problems, particularly problems with applications in areas such as image processing, pattern recognition, information retrieval, and computer graphics.

Education

B.S.	Purdue University	1977	Computer Science (with highest distinction)
Ph.D.	Purdue University	1983	Computer Science (Advisor: Christoph Hoffmann)

Work Experience

1999– Professor, Computer Science Department, University of Maryland.

1990–99 Associate Professor, Computer Science Department, University of Maryland.

1984–90 Assistant Professor, Computer Science Department, University of Maryland.

1983–84 Visiting Assistant Professor, Computer Science Department, Purdue University.

Visiting Appointments

Feb–Jun 2009 Visiting Professor, Department of Computer Science and Engineering, Hong Kong University of Science and Technology. (While on sabbatical leave.)

Jul–Dec 2001 Visiting Professor, Department of Computer Science, Hong Kong University of Science and Technology. (While on sabbatical leave.)

Jun–Dec 1994 Visiting scientist, Max Planck Institute für Informatik, Saarbrücken, Germany. (While on sabbatical leave.)

Books

[1] M. T. Goodrich, R. Tamassia, and D. M. Mount. *Data Structures and Algorithms in C++*. John Wiley & Sons, New York, 2004.

Papers in Refereed Journals

[2] S. A. Friedler and D. M. Mount. Approximation algorithm for the kinetic robust k-center problem. *Comput. Geom. Theory Appl.* (Accepted for publication.).

[3] S. Arya, T. Malamatos, and D. M. Mount. Space-time tradeoffs for approximate nearest neighbor searching. *J. Assoc. Comput. Mach.* (To appear.).

[4] G. D. da Fonseca and D. M. Mount. Approximate range searching: The absolute model. *Comput. Geom. Theory Appl.*, 2009. (In press. doi: 10.1016/j.comgeo.2008.09.009).

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Invited Book Chapters

[47] S. Arya and D. M. Mount. Computational geometry: Proximity and location. In D. Mehta and S. Sahni, editors, *The Handbook of Data Structures and Applications*, pages 63.1–63.22. Chapman & Hall/CRC, Boca Raton, Florida, 2005.

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[121] D. M. Mount and N. S. Netanyahu. Efficient algorithms for robust circular arc estimators. In *Proc. Fifth Canad. Conf. Comput. Geom.*, pages 79–84, 1993.

[122] M. Dillencourt, D. M. Mount, and A. Saalfeld. On the maximum number of intersections of two polyhedra in 2 and 3 dimensions. In *Proc. Fifth Canad. Conf. Comput. Geom.*, pages 49–54, 1993.

[123] D. M. Mount and R. Silverman. Minimum enclosures with specified angles. In R. A. Melter and A. Y. Wu, editors, *Proc. Vision Geometry I*, volume 1832 of *SPIE*, pages 80–91, 1992.

[124] P. J. Rousseeuw, N. Netanyahu, and D. M. Mount. New statistical and computational results on the repeated median regression estimator. In *Proc. of the Workshop on Data Analysis and Robustness*, Ascona, Switzerland, 1992.

[125] M.-A. K. Posenau and D. M. Mount. Delaunay triangulations and computational fluid dynamics meshes. In *Proc. Fourth Canad. Conf. Comput. Geom.*, pages 316–321, 1992.

[126] D. M. Mount and N. S. Netanyahu. Computationally efficient algorithms for high-dimensional robust estimators. In *Proc. Fourth Canad. Conf. Comput. Geom.*, pages 257–263, 1992.

[127] T. C. Kao and D. M. Mount. Incremental construction and dynamic maintenance of constrained Delaunay triangulations. In *Proc. Fourth Canad. Conf. Comput. Geom.*, pages 170–175, 1992.

[128] T. C. Kao and D. M. Mount. An algorithm for computing compacted Voronoi diagrams defined by convex distance functions. In *Proc. Third Canad. Conf. Comput. Geom.*, pages 104–109, 1991.

[129] M. B. Dillencourt, D. M. Mount, and N. S. Netanyahu. A randomized algorithm for slope selection. In *Proc. Third Canad. Conf. Comput. Geom.*, pages 135–140, 1991.

[130] D. M. Mount and S. Chandran. A unified approach to finding enclosing and enclosed triangles. In *Proc. 26th Allerton Conf. Commun. Control Comput.*, 1988.

[131] W. I. Gasarch, D. Kueker, and D. M. Mount. Recursive categoricity of highly recursive rooted graphs. In *19th Southeastern Internat. Conference on Combinatorics, Graph Theory, and Computing*, Baton Rouge, 1988. (Full version appeared in Congressus Numeratium, 1989.).

[132] S. Chandran and D. M. Mount. Shared memory algorithms and the medial axis transform. In *Proc. 1987 Workshop on Computer Architecture for Pattern Analysis and Machine Intelligence*, pages 44–50, 1987.

Collections Edited

[133] L. J. Latecki, D. M. Mount, and A. Y. Wu, editors. *Vision Geometry XIII, Proceedings of SPIE Vol. 5675*. SPIE, 2005.

[134] L. J. Latecki, D. M. Mount, and A. Y. Wu, editors. *Vision Geometry XII, Proceedings of SPIE Vol. 5300*. SPIE, 2004.

[135] D. M. Mount and C. Stein, editors. *Algorithm Engineering and Experiments: 4th Internat. Workshop*. Springer-Verlag, 2002.

[136] L. J. Latecki, D. M. Mount, and A. Y. Wu, editors. *Vision Geometry XI, Proceedings of SPIE Vol. 4794*. SPIE, 2002.

[137] L. J. Latecki, D. M. Mount, and A. Y. Wu, editors. *Vision Geometry X, Proceedings of SPIE Vol. 4476*. SPIE, 2001.

[138] L. J. Latecki, D. M. Mount, and A. Y. Wu, editors. *Vision Geometry IX, Proceedings of SPIE Vol. 4117*. SPIE, 2000.

[139] L. J. Latecki, D. M. Mount, and A. Y. Wu, editors. *Vision Geometry VIII, Proceedings of SPIE Vol. 3811*. SPIE, 2000.

Other Papers and Class Resources

1. "ANN Programming Manual," unpublished manuscript, 1998.
2. Unpublished class lecture notes. Available from `http://www.cs.umd.edu/~mount`.
   - "CMSC 427: Computer Graphics," 2003.
   - "CMSC 451: Algorithm Design," 2003.
   - "CMSC 754: Computational Geometry," 2002.
   - "CMSC 420: Data Structures," 2001.
   - "CMSC 251: Algorithms", 1998.

Invited Lectures

1. "Proximity Searching in Euclidean and Other Metric Spaces," NASA Goddard Space Flight Center, Beltsville, Maryland (Nov 2009).
2. "On Proximity Searching in Euclidean and Metric Spaces," Federal University of Rio de Janeiro (UFRJ), Rio de Janeiro, Brazil (Oct 2008).
3. "Embedding and Similarity Search for Point Sets under Translation," National Institute of Pure and Applied Mathematics (IMPA), Rio de Janeiro, Brazil (Oct 2008).
4. "Embedding and Similarity Search for Point Sets under Translation," Hong Kong University of Science and Technology (Aug 2008).
5. "Fat is Good: The Skinny on Approximate Range Searching," University of Texas, Dallas (Feb 2007).
6. "Keep Your Friends Close and Your Enemies Closer: The Art of Proximity Searching," Geroge Mason University (Sept 2006).
7. "On Approximate Range Searching, or Get in Shape; Round is a Good Choice," Keynote address at the 18th Canadian Conf. on Computational Geometry, Kingston, Ontario (August 2006).

8. "Keep Your Friends Close and Your Enemies Closer: The Art of Proximity Searching," University of Buffalo (April 2006).

9. "Keep Your Friends Close and Your Enemies Closer: The Art of Proximity Searching," Keynote address at the 8th Workshop on Algorithm Engineering and Experiments (ALENEX-'06), (January 2006).

10. "Two Heads are Better Than One: Combining Two Heuristics to Produce One Approximation Algorithm", Georgetown University (October 2005).

11. "The ABCs of AVDs: Geometric Retrieval Made Simple," Keynote address at the International Symp. of Algorithms and Computation (ISAAC'04), Hong Kong (December 2004).

12. "On the Least Median Square Problem," Invited talk at Interface 2004 (May 2004).

13. "Data Structures for Approximate Proximity and Range Searching," CSCAMM Workshop on the Fast Multipole Method, University of Maryland (April 2004).

14. "Maintaining Geometric Structures under Incremental Motion," Hong Kong University of Science and Technology (January 2004).

15. "Maintaining Geometric Structures under Incremental Motion," Workshop on Robot Navigation (December 2003).

16. "Approximate Voronoi Diagrams," Mathematical Sciences Research Institute (MSRI), Berkeley (October 2003).

17. "Approximation Algorithms for Clustering," University of Alabama (September 2003).

18. "Approximate Voronoi Diagrams," University of Illinois at Urbana-Champaign (July 2003).

19. "Analyzing The Number of Samples Required for an Approximate Monte-Carlo LMS Line Estimator," DIMACS Workshop on Data Depth, (May 2003).

20. "Incremental Motion and k-Means Clustering," DIMACS Workshop on Motion (November 2002).

21. "k-Means Clustering and Applications," University of Notre Dame (April 2002).

22. "k-Means Clustering and Applications in Image Processing," 11th Workshop "Theoretical Foundations of Computer Vision, Schloss Dagstuhl, Wadern, Germany (April 2002).

23. "Analysis of a Local-Search Approximation Algorithm for k-Means Clustering", Hong Kong University of Science and Technology (November 2001).

24. "Two Heads are Better Than One: Combining Two Heuristics to Produce One Approximation Algorithm", Hong Kong University of Science and Technology (October 2001).

25. "Pseudo-kinetic Algorithms for Data Clustering", University of Pisa (September 1999).

26. "Nearest Neighbor Searching: New Issues, New Questions", Invited Talk at IWOSS'99 (International Workshop on Similarity Search), (September 1999).

27. "Hierarchical Algorithms for Geometric Optimization", Hong Kong University of Science and Technology (June 1999).

28. "Computational Geometry for Solid Modeling", (a four hour tutorial on computational geometry presented at the 1999 ACM Solid Modeling Symposium), (June 1999).

29. "Pseudo-kinetic Algorithms for Data Clustering", Los Alamos National Laboratory, Los Alamos, New Mexico (March 1999).

30. "Improved Algorithms for Robust Point Matching and Applications to Image Registration", University of Tokyo, Tokyo, Japan (November 1998).

31. "Robust Line Estimators (fitting good lines to bad data)", Georgetown University (October 1997).

32. "Practical Approaches to Nearest Neighbor Searching in Moderate Dimensions", University of Tokyo, Tokyo, Japan (July 1997).

33. "Robust Line Estimators", University of Genova, Genova, Italy (June 1997)

34. "A Practical Algorithm for the LMS Line Estimator", Schloss Dagstuhl, Wadern, Germany (February 1997).

35. "Robust Line Estimators", Hong Kong University of Science and Technology (January 1997)

36. "Routing and Clustering in Graphs", Census Bureau, Suitland, Maryland (October 1996).

37. "Tree Decomposition of Spanners", Max-Planck Institute for Computer Science, Saarbrücken, Germany (November 1994).

38. "Spanners Constructed from Well-Separated Pair Decompositions", Max-Planck Institute for Computer Science, Saarbrücken, Germany (November 1994).

39. "Nearest Neighbor Searching and Related Problems", Freiburg University, Freiburg, Germany (September 1994).

40. "Geometric Structures", A series of 3 lectures presented at Bilkent University, Ankara, Turkey (August 1994).

41. "Nearest Neighbor Searching", Johns Hopkins University, (May 1993).

42. "Nearest Neighbor Searching", University of New Hampshire, (March 1993).

43. "Minimum enclosures with specified angles", SPIE OE/Technology '92, Boston (November 1992).

44. "Approximate Nearest Neighbor Searching", University of Virginia (September 1992).

45. "Intersection Detection and Polygon Separators", SUNY at Stony Brook (August 1992).

46. "Geometric Packing and Covering", Department of Mathematics, University of Maryland (February 1992).

47. "Confronting Exponential Blow-up in Nearest Neighbor Searching", UMIACS Applied Computational Geometry Day, University of Maryland (February 1992).

48. "Intersection Detection and Polygon Separators", Invited talk at the MSI Workshop on Computational Geometry, SUNY at Stony Brook (October 1991).

49. "Computational Geometry and Mesh Generation," NASA Langley (September 1991).

50. "Geometric Packing and Covering," Cornell University (April 1991).

51. "Intersection Detection and Polygon Separators", Cornell University (April 1991).

52. "Geometric Packing and Covering," 1990 ORSA/TIMS Conference (October 1990).

53. "Slope Selection," National Institute of Standards and Technology, Gaithersburg, Maryland (December 1989).

54. "Object Detection in Images by Probing," AMS Special Session on Mathematics in Computer Vision, Hoboken, New Jersey (October 1989).

55. "Geometric Packing and Covering," DIMACS Workshop on Geometric Complexity, Princeton University (October 1989).

56. "Geometric Packing and Covering," Cornell University (November 1988).

57. "Geometric Algorithms and Data Structures," Virginia Tech, (February 1988).

58. "An Output Sensitive Algorithm for Constructing Visibility Graphs," New York University (November 1987).

59. "On the Number of Shortest Paths on Convex Polyhedra," New York University, Computational Geometry Day (January 1987).

60. "Packing Flexible Objects," Johns Hopkins University (April 1986) and UMIACS Colloquium Series (April 1986).

Courses Taught

Fall 2009	CMSC 427	Computer Graphics (30 students)
Spring 2009	(sabbatical leave)	
Fall 2008	(sabbatical leave)	
Spring 2008	CMSC 451	Design and Analysis of Algorithms (28 students)
Fall 2007	CMSC 498M	Game Programming (14 students)
Spring 2007	CMSC 754	Computational Geometry (29 students)
Fall 2006	CMSC 498M	Game Programming (18 students)
Spring 2006	CMSC 427	Computer Graphics (24 students)
Fall 2005	CMSC 754	Computational Geometry (30 students)
Fall 2004	CMSC 131	Object-Oriented Programming I (180 students)
Spring 2004	CMSC 427	Computer Graphics (53 students)
Fall 2003	CMSC 451	Design and Analysis of Algorithms (50 students)

Spring 2003	CMSC 427	Computer Graphics (65 students)
Fall 2002	CMSC 754	Computational Geometry (48 students)
Spring 2002	(sabbatical leave)	
Fall 2001	(sabbatical leave)	
Spring 2001	CMSC 420	Data Structures (55 students)
Fall 2000	CMSC 427	Computer Graphics (42 students)
Spring 2000	CMSC 754	Computational Geometry (38 students)
	CMSC 858K	Data Structures and Algorithms for Information Retrieval (7 students)
Fall 1999	CMSC 451	Design and Analysis of Algorithms (58 students)
Spring 1998	CMSC 251	Algorithms (85 students)
Fall 1997	CMSC 754	Computational Geometry (50 students)
Spring 1997	CMSC 427/828M	Computer Graphics (80 students)
Fall 1996	CMSC 451	Design and Analysis of Algorithms (60 students)
Spring 1996	CMSC 451	Design and Analysis of Algorithms (60 students)
Fall 1995	CMSC 498M/828M	Computer Graphics (70 students)
Spring 1995	(sabbatical leave)	
Fall 1994	(sabbatical leave)	
Spring 1994	CMSC 651	Analysis of Algorithms (40 students)
Fall 1993	CMSC 420	Data Structure (55 students)
Spring 1993	CMSC 420	Data Structure (60 students)
	CMSC 498C/828C	Computer Graphics (55 students)
Fall 1992	CMSC 451	Design and Analysis of Algorithms (55 students)
Spring 1992	CMSC 420	Data Structure (50 students)
Fall 1991	CMSC 451	Design and Analysis of Algorithms (70 students)
Spring 1991	CMSC 451	Design and Analysis of Algorithms (60 students)
Fall 1990	CMSC 251	Algorithms (135 students)
Spring 1990	CMSC 498C/828C	Computer Graphics (35 students)
Fall 1989	CMSC 451	Design and Analysis of Algorithms (50 students)
Spring 1989	CMSC 451	Design and Analysis of Algorithms (50 students)
Fall 1988	CMSC 498C/828C	Computer Graphics (30 students)
Spring 1988	CMSC 651	Analysis of Algorithms (40 students)
Fall 1987	CMSC 452	Elementary Theory of Computation (55 students)
Spring 1987	CMSC 451	Design and Analysis of Algorithms (55 students)
Fall 1986	CMSC 451	Design and Analysis of Algorithms (50 students)
Spring 1986	CMSC 651	Analysis of Algorithms (12 students)
Fall 1985	CMSC 451	Design and Analysis of Algorithms (45 students)
Spring 1985	CMSC 651	Analysis of Algorithms (12 students)

Grants

- 05/08–04/13, ONR MURI Grant 20082040, "Scalable Methods for the Analysis of Network-Based Data," $462,642, co-I. (This is my part of a $5,381,300 grant involving multiple PIs from U.C. Irvine, U. Washington, and Penn State.)

- 10/06–09/09, NSF Grant CCF–0635099, "Approximation Algorithms for Geometric Retrieval," $307,386, PI.
- 8/01–8/06, NSF Grant CCR–0098151, "Structure-Sensitive Geometric Algorithms and Data Structures," $255,000, PI.
- 9/97–8/01, NSF Grant CCR–9712379, "Geometric Tools and Applications", $208,789, PI.
- 8/93–1/96, NSF Grant CCR–9310705, "Geometric Tools and Applications", $65,584, PI.
- 8/93–1/96, NSF ROA Supplement to CCR–9310705, $13,116.
- 2/91–3/93, Bureau of the Census JSA 91–5 "Interviewer Assignment and Routing", $21,000, PI.
- 10/89–9/90, Bureau of the Census Grant JSA 89–32, "Efficient Joint Triangulation for Mapping", $25,000, PI.
- 7/89–12/91 NSF Grant CCR–89–08901, "Geometric Packing, Covering and Path Planning", $32,901, PI.

Awards and Honors

- Keynote speaker: 8th Workshop on Algorithm Engineering and Experiments (ALENEX'06), 2006, Miami, Florida.
- University of Maryland, School of CMPS, Dean's Award for Excellence in Teaching, 2005.
- Keynote Speaker: International Symposium on Algorithms on Algorithms and Comptation (ISAAC) 2004, Hong Kong.
- Hong Kong University of Science and Technology, School of Engineering, Award for Teaching Excellence Appreciation, 2001.
- University of Maryland, School of CMPS, Honorable Mention Citation for Excellence in Teaching, 2000.
- University of Maryland, Dept. of Computer Science, Award for Teaching Excellence, 1999.
- University of Maryland, School of CMPS, Dean's Award for Excellence in Teaching, 1997.
- Membership in the faculty of MAPL (Applied Mathematics Program at UMCP), 1996–present.
- National Technological University, List of Outstanding Instructors, 1994.
- University of Maryland, Dept. of Computer Science, Award for Teaching Excellence, 1993.
- University of Maryland, Dept. of Computer Science, Award for Teaching Excellence, 1991.
- University of Maryland, Dept. of Computer Science, Award for Teaching Excellence, 1987.

- University of Maryland, Dept. of Computer Science, Award for Teaching Excellence (Honorable mention), 1986.
- Purdue University, School of Science List of Outstanding Teachers in Science, 1984.

Advising:

Doctoral Students Advised:

2007	Guilherme da Fonseca
	Nargess Memarsadeghi
2006	Cengiz Celik
2004	F. Betul Atalay
2002	Michael Murphy
2001	Songrit Maneewongvatana.
1998	Fan-Tao Pu.
1993	Sunil Arya.
1992	Thomas Kao.
1991	Nathan Netanyahu (Co-advised with Azriel Rosenfeld).
1989	Sharat Chandran (Co-advised with Larry Davis).

Currently advising: Minkyoung Cho, Sorelle Friedman, and Eunhui Park.

Master's Students Advised:

2000	Cengiz Celik
1997	Shu Cheah, Connie Peng, Yi Qiu, Steven Han
1996	Tobin Hill
1994	ZhaoYu Liu
1993	Shuo-Jen Wu
1992	Salil Joshi, TianXiong Xue
1989	Kuodung Shih, Adrienne Paiewonsky.
1987	Pauline Hwang

Undergraduate Projects Supervised:

2007	Gregory Osefo
2005	Chihiro Hirai, Jordan Richardson
2004	Steven Helfand (Honors), Yulia Eyman (Honors), Tzu-Hsiu (Kevin) Chou
	Christopher Horn (Honors), Istvan Lazslo (Honors)
2003	In-Joon Chu
2001	Amir Caspi (Honors), Carina Hassan (Honors)
	Ransom Winder (Honors, CMPS Outstanding Graduating Seniors)
2000	Aleksey Martynov (Honors)
1999	Amy Yuan (Honors)
1998	Maria Jump (Summer Research Scholarship)

1997	James Starz
1996	Gregory Seidman
1994	Salim Chwaro
1993	Daniel Bounds

Mentoring High School Students:

1996–97	Ryan Cooper (Eleanor Roosevelt High).

Outside Service

Editorial Boards and Service Activities:

- *International J. Computational Geometry and Applications*. Associate editor (2008–present).
- *ACM Trans. Mathematical Software*. Associate editor (2006–present).
- ALENEX Steering Committee member (Workshop on Algorithm Engineering and Experiments) 2003–2007.
- *Pattern Recognition*. Editorial board member (1999–2006).
- *Computational Geometry: Theory and Applications*. Guest editor for the special issue on papers from the "19th ACM Symposium on Computational Geometry, 2003," Vol 31, 2005.

Conference Committees and Panels:

- Conference Co-Chair, 41st ACM Symposium on Theory of Computing (STOC 2009), Bethesda, Maryland, May 31–June 2, 2009.
- Conference Chair, 24th Symposium on Computational Geometry (SoCG 2008), University of Maryland, College Park, June 9–11, 2008.
- Program Committee, 18th International Symposium on Algorithms and Computation (ISAAC 2007), Sendai, Japan, 2007.
- NSF Career Proposal Review Panel (Theoretical Foundations), 2006.
- Program Committee, 12th Annual International Computing and Combinatorics Conference (COCOON'06), 2006.
- Conference Co-Chair, IS&T/SPIE Electronic Imaging Science and Technology (Vision Geometry XIV), 2006.
- Conference Co-Chair, IS&T/SPIE Electronic Imaging Science and Technology (Vision Geometry XIII), 2005.
- Conference Co-Chair, IS&T/SPIE Electronic Imaging Science and Technology (Vision Geometry XII), 2004.

- Program Co-Chair, 19th ACM Symposium on Computational Geometry (SoCG'03), 2003.
- Conference Co-Chair, 4th Workshop on Algorithm Engineering and Experiments (ALENEX 02), 2002.
- Conference Co-Chair, SPIE's OE/Technology '02 (Vision Geometry XI), 2002.
- Program Committee, 10th European Symposium on Algorithms (ESA), 2002.
- Conference Co-Chair, SPIE's OE/Technology '01 (Vision Geometry X), 2001.
- NSF ITR Proposal Review Panel (Numerical and Symbolic Computation), 2001.
- Conference Co-Chair, SPIE's OE/Technology '00 (Vision Geometry IX), 2000.
- Conference Co-Chair, SPIE's OE/Technology '99 (Vision Geometry VII), 1999.
- NSF CCR Proposal Review Panel (Numerical and Symbolic Computation), 1997.
- Program Committee, SPIE's OE/Technology '98 (Vision Geometry VI), 1998.
- Program Committee, 13th ACM Symposium on Computational Geometry, 1997
- Program Committee, NASA Image Registration Workshop, 1997.
- Program Committee, SPIE's OE/Technology '97 (Vision Geometry V), 1997.
- NSF CAREER Program Panel Review, 1996.
- Program Committee, SPIE's OE/Technology '96 (Vision Geometry IV), 1996.
- Program Committee, SPIE's OE/Technology '95 (Vision Geometry III), 1995.
- Program Committee, SPIE's OE/Technology '94 (Vision Geometry II), 1993.
- Program Committee, SPIE's OE/Technology '93 (Vision Geometry I), 1992.

Educational and Other:

- Speaker at Prince George's Community College Science and Engineering Day (1999).
- Speaker at Prince George's Community College Science and Engineering Day (1996).
- Mentor for High School Honors Student from Roosevelt High (1999).
- Mentor for High School Honors Student from Montgomery Blair (1992).
- Mentor for High School Honors Student from Montgomery Blair (1991).

Consulting

- Wintek Corp. Lafayette, Indiana (design and implementation of a C-language compiler for microprocessor), 1979.
- Aging Services Project, Dept. of Sociology and Anthropology, Purdue University, Lafayette, Indiana (design and implementation of graph theoretic algorithms for social network analysis), 1984.
- Automatic Target Recognition Project, Army Center for Night Vision and Electro-Optics, Ft. Belvoir, Virginia (algorithms for the identification of targets in laser radar data), 1988–1989.

University Service

2009–10	Member, UMIACS APT Committee.
	Member, University Undergraduate Studies PCC Committee.
	Member, University Individual Studies Program Committee.
2008–09	(Sabbatical leave).
2007–08	Member, UMIACS Salary Committee.
	Member, University Undergraduate Studies PCC Committee.
	Member, University Individual Studies Program Committee.
2006–07	Member, UMIACS APT Committee.
	Member, University Undergraduate Studies PCC Committee.
	Member, University Individual Studies Program Committee.
	Member, Dorfman Prize Selection Committee.
2005–06	Member, UMIACS APT Committee.
	Member, University Undergraduate Studies PCC Committee.
	Member, University Individual Studies Program Committee.
	Member, University Medal Selection Committee.
2004–05	Member, UMIACS APT Committee.
	Member, UMIACS Salary Committee.
	Member, University Undergraduate Studies PCC Committee.
	Member, University Individual Studies Program Committee.
2003–04	Member, UMIACS Steering Committee.
	Member, University Undergraduate Studies PCC Committee.
	Member, University Individual Studies Program Committee.
2002–03	Member, UMIACS APT Committee.
2001–02	(Sabbatical leave).
2000–01	Member, UMIACS Steering Committee.
	Member, Computer Engineering Curriculum Committee.
	Member, Graduate School Fellowship Committee.
	Member, CMPS Strategic Plan Advisory Committee.
	Member, CMPS Library Advisory Committee.
1999–00	Member, UMIACS APT Committee.
	Member, UMIACS APT Salary Committee.
	Member, Graduate School Fellowship Committee.
	Member, CMSC Chair Search Committee.
	Member, CMPS Graduate Education Task Force.
	Member, CMPS Library Advisory Committee.
	Member, Computer Engineering Curriculum Committee.
1998–99	Member, UMIACS APT Committee.
	Member, UMIACS Steering Committee.
	Member, UMIACS Graduate Fellowship Committee.
	Member, Chen Scholarship Selection Committee.
1997–98	Member, UMIACS Graduate Fellowship Committee.
1996–97	Chair, UMIACS Graduate Fellowship Committee.
	Panel member for Student Honor Council Hearings.
1995–96	Chair, UMIACS Graduate Fellowship Committee.

	Panel Moderator for Career Center's Career Week.
1994–95	(Sabbatical leave).
1993–94	Member, Dean's Committee on Teaching Enhancement.
	Member, UMIACS director search committee.
1992–93	Member, UMIACS APT Committee.
	Member, Provost's Library Advisory Committee.
	Chair, Campus Senate Adjunct Committee on Instructional Resources.
1991–92	Departmental Representative to Campus Senate.
	Member, Campus Senate Committee to Study MLS and Ph.D. programs in CLIS.
1990–91	Calculus Reform Committee.
1989–90	Member, UMIACS APT Committee.

Departmental Service

2009–10	Library Coordinator.
2008–09	(Sabbatical leave).
2007–08	Chair, APT Committee.
	Member, Teaching Evaluation Committee.
	Library Coordinator.
	Member, Graduate Admissions Committee
	Judge and Contributor, High School Programming Contest.
2006–07	Chair, APT Committee.
	Member, Teaching Evaluation Committee.
	Member, Department Council.
	Member, Graduate Admissions Committee
	Member, Committee to Revise CMSC Plan of Organization.
	Library Coordinator.
	Judge and Contributor, High School Programming Contest.
2005–06	Chair, APT Committee.
	Chair, Teaching Evaluation Committee.
	Member, Department Council.
	Member, Graduate Admissions Committee
	Member, Search Committee for position of Departmental Information Specialist.
	Library Coordinator.
	Judge and Contributor, High School Programming Contest.
2004–05	Chair, Teaching Evaluation Committee.
	Chair, Department Merit Pay Committee.
	Member, Department Council.
	Member, Graduate Admissions Committee
	Member, Introductory Course Committee.
	Library Coordinator.
	Judge and Contributor, High School Programming Contest.
2003–04	Chair, APT Committee.
	Member, Department Council.

	Library Coordinator.
	Judge and Contributor, High School Programming Contest.
2002–03	Chair, Teaching Evaluation Committee.
	Chair, Committee to Redesign Lower Division Courses.
	Member, Department External Evaluation Committee.
	Library Coordinator.
	Judge and Contributor, High School Programming Contest.
2001–02	(Sabbatical leave).
2000–01	Library Coordinator.
	Member, Department Council.
	Member, Faculty Recruiting Committee.
	Member, Space Utilization Committee.
	Member, Teaching Evaluation Committee.
	Judge and Contributor, High School Programming Contest.
1999–00	Library Coordinator.
	Chair, CMSC Director of Administration Search Committee.
	Member, Graduate Admissions Committee.
	Member, Teaching Evaluation Committee.
	Member, Department Council.
	Member, Merit Pay Committee.
	Member, Academic Evaluation Committee.
	Member, Space Committee.
	Judge and Contributor, High School Programming Contest.
1998–99	Library Coordinator.
	Member, Teaching Evaluation Committee.
	Member, Department Council.
	Member, Graduate Admissions Committee.
	Judge and Contributor, High School Programming Contest.
	Member, Teaching Evaluation Committee.
1997–98	Library Coordinator.
	Member, Graduate Admissions Committee.
	Judge and Contributor, High School Programming Contest.
	Member, Teaching Evaluation Committee.
1996–97	Judge and Contributor, High School Programming Contest.
	Member, Teaching Evaluation Committee.
1995–96	Member, Department Council.
	Member, Teaching Evaluation Committee.
	Teaching Assistant Orientation and Training.
1993–94	Member, Teaching Evaluation Committee.
	Teaching Assistant Orientation and Training.
1992–93	ITV Liaison.
	Faculty Editor, Annual Report.
1991–92	Member, Department Council.
	Member, Teaching Evaluation Committee.
	ITV Liaison.

	Chair, Theory Field Committee.
	Member, Comprehensive Examination Committee.
	Member, Graduate Admissions Committee.
1990–91	Member, Department Council.
	Teaching Assistant Orientation and Training.
	ITV Liaison.
	Member, Comprehensive Exam Revision Committee.
	Member, Undergraduate Studies Committee.
1989–90	Teaching Assistant Orientation and Training.
	Member, Laboratory Facilities Committee.
1988–89	Faculty Editor, Annual Report.
1987–88	Faculty Advisor for Student ACM Chapter.
1986–87	Member, Graduate Admissions Committee.
	Member, Department Council.
1985–86	Member, Graduate Admissions Committee.