Sami Khuri
San José State University
Department of Computer Science
One Washington Square
San José, CA 95192-0249
(408) 924-5081
khuri@cs.sjsu.edu
www.cs.sjsu.edu/faculty/khuri

EDUCATION

1987 **PhD** in Computer Science
School of Computer & Information Science
Syracuse University, Syracuse, New York
Title: *The Conversion of Probabilistic Decision Tables into Efficient Decision Trees and Diagrams.*
Advisor: Dr. F. L. Morris.

1980 **MS** in Computer Science
School of Computer & Information Science
Syracuse University, Syracuse, New York

1978 **MS** in Pure Mathematics, Mathematics Department
Syracuse University, Syracuse, New York.

1974 **BS** in Mathematics, Mathematics Department
American University of Beirut, Beirut, Lebanon

EXPERIENCE

Professor — **August 1992 - present**
Department of Computer Science
San José State University, San José, California.
Courses taught include: compiler design, operating systems, software engineering, design and analysis of algorithms and complexity theory, programming languages, automata, and computability, and topics courses: genetic algorithms, data compression, coding and information theory, algorithm animation in Java, bioinformatics, and fundamentals of UNIX system administration. Supervised numerous master theses and independent studies.

Visiting Professor — **January - June 2004**
Department of Computer Science and Engineering
Helsinki Institute of Technology, Espoo, Finland.
Taught a graduate course in bioinformatics and conducted research.

Visiting Professor — **July - August 2002**
Department of Computer Science and Engineering
Helsinki Institute of Technology, Espoo, Finland.
Taught a course on genetic algorithms and conducted research.

Visiting Professor **October - December 2000**
Department of Computer Science
University of Málaga, Málaga, Spain.
Conducted research in theoretical issues in evolutionary computation.

DAAD Scholar **August 1999 - July 2000**
Department of Computer Science
Technische Universität München, München, Germany.
Taught graduate courses on algorithms and data compression. Conducted research in the fields of genetic algorithms and algorithm visualization.

Visiting Professor **June 1996 - August 1996**
Department of Computer Science
Technische Universität München, München, Germany.
Taught a graduate course on applications of information theory to data compression, ran a two day seminar on genetic algorithms and conducted research in theoretical issues in evolutionary computation.

DAAD Scholar **August 1994 - July 1995**
Department of Computer Science
University of Dortmund, Dortmund, Germany.
Taught two-semester graduate level course on information theory and conducted research in evolutionary heuristics applied to combinatorial optimization problems.

Fulbright Scholar **January 1992 - July 1992**
Department of Computer Science
American University in Bulgaria, Blagoevgrad, Bulgaria.
Ran a seminar on neural networks; collaborated with researchers from the Institute of Mathematics at the Bulgarian Institute of Sciences, and actively participated in the revision of the curriculum of the university.

Dana Research Scholar **September 1989 - August 1990**
Department of Biomedical Engineering
The Johns Hopkins School of Medicine, Baltimore, Maryland.
Conducted research in the fields of neural networks and genetic algorithms.

Assistant Professor **September 1986 - December 1991**
Department of Computer Science
Wellesley College, Wellesley, MA.
Courses taught include: introductory computer science courses using Pascal and Basic, data structures and organization, design and analysis of algorithms, coding and information theory, operations research, computability theory, neural networks, languages and automata, and mathematical foundations of computer science. Supervised several honors theses and independent studies.

Research Assistant **September 1984 - June 1986**
School of Computer and Information Science
Syracuse University, Syracuse, New York.

Assistant Professor **September 1980 - June 1983**
Computer Science Department
Utica College of Syracuse University, Utica, New York.
Courses taught include: introductory computer science courses using Pascal, Fortran and APL, data structures and organization, design and analysis of algorithms, coding and information theory, and discrete mathematics.

Teaching Assistant **September 1976 - June 1980 & September 1983 - June 1984**
Mathematics Department
Syracuse University, Syracuse, New York.
Courses taught include: different sequences in calculus, linear algebra, and abstract algebra.

BOOK CHAPTERS AND JOURNAL PUBLICATIONS

- *Sequential and Distributed Evolutionary Algorithms for Combinatorial Optimization Problems*, co-author E. Alba; **Studies in Fuziness and Soft Computing**, Springer-Verlag, Berlin, Heidelberg, 2002, chapter 10, pp. 211-233.

- *Applying Evolutionary Algorithms to Combinatorial Optimization Problems*, co-author E. Alba Torres; **Lecture Notes in Computer Science**, vol. 2074, Part II, Springer-Verlag, Berlin, Heidelberg, 2001, pp. 689-700.

- *A User-Centered Approach for Designing Algorithm Visualizations*, published in special issue of **Informatik/Informatique**, No.2, April 2001, pp. 12-17.

- *Un Enfoque Entrado en el Usuario par Diseñar Animaciones de Algoritmos* (in Spanish), published in the **Novatica/Upgrade**, No. 150, March/April 2001, pp. 16-20.

- *Genetic Algorithms for Solving Open Shop Scheduling Problems*, co-author S. Miryala; **Lecture Notes in Artificial Intelligence: Progress in Artificial Intelligence**, Springer Verlag, Berlin, Heidelberg, 1999, pp. 357-369.

- *Transform Methods: Haar Analysis, Haar Transforms*, in **Handbook of Evolutionary Computation** Oxford University Press, 1998.

- *Transform Methods: Walsh Analysis, Walsh Transforms* in **Handbook of Evolutionary Computation** Oxford University Press, 1998.

- *A Comparative Study of a Penalty Function, a Repair Heuristic, and Stochastic Operators with the Set-Covering Problem*, co-authors T. Bäck, M. Schütz; **Artificial Evolution: Lecture Notes in Computer Science**, volume 1063, Springer Verlag, Berlin, 1996, pp. 320-332.

- *An Evolutionary Heuristic for the Minimum Vertex Cover Problem*, co-author T. Bäck, **Max-Planck-Institut für Informatik**, MPI-I-94-241, August 1994, pp. 86-90.

- *A Binary Decision Algorithm*, co-author A. Batarekh, **Information Sciences: An International Journal**, vol. 53, number 3, February 1991, pp. 251-270.

PUBLICATIONS AND PRESENTATIONS AT REFEREED CONFERENCES

- *A Comparison of DNA Fragment Assembly Algorithms*, co-author L. Li; published in the **Proceedings of the 2004 International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences**, Las Vegas, June 2004, pp. 329-335.

- *PTC: An Interactive Tool for Phylogenetic Tree Construction*, co-author C. Yang; published in the **Proceedings of the IEEE Computer Society Bioinformatics Conference**, Stanford University, August 2003, pp. 476-7.

- *Exact and Heuristic Algorithms for the DNA Fragment Assembly Problem*, co-author Y. Jing; published in the **Proceedings of the IEEE Computer Society Bioinformatics Conference**, Stanford University, August 2003, pp. 581-2.

- *EVEGA: An Educational Visualization Environment for Graph Algorithms*, co-author K. Holzapfel; published in the **Proceedings of the 6th Annual Conference on Innovation and Technology in Computer Science Education**, ACM Press, New York, June 2001.

- *Applying Evolutionary Algorithms to Combinatorial Optimization Problems*, co-author E. Alba Torres; presented at the **2001 International Conference on Computational Science**, San Francisco, USA, May 2001 and published.

- *Interactive Packages for Learning Image Compression Algorithms*, co-author H. Hsu; presented at the **5th Annual Conference on Innovation and Technology in Computer Science Education**, July 2000, Helsinki, Finland; and published in the **Proceedings of ITiCSE'2000**, ACM Press, July 2000, pp. 73-76.

- *Interacting with Java-Based Algorithm Visualizations*, workshop given with T. Naps at the **5th Annual Conference on Innovation and Technology in Computer Science Education**, July 2000, Helsinki, Finland; and abstract published in the **Proceedings of ITiCSE'2000**, ACM Press, July 2000.

- *Designing Effective Algorithm Visualizations*, invited lecture at the Program Visualization Workshop organized by the University of Joensuu, Porvoo, Finland, July 7 - 8, 2000; published in the **Proceedings of the First Program Visualization Workshop**, 2001, pp. 1–12.

- *A Grouping Genetic Algorithm for Coloring the Edges of Graphs*, co-authors T. Walters and Y. Sugono; presented at the **2000 ACM Symposium on Applied Computing, Evolutionary Computation and Optimization Track**, March 2000 in Como, Italy; and published in the **Proceedings of the 2000 ACM Symposium on Applied Computing**, ACM Press, March 2000, pp. 422-427.

- *Tools for Visualizing Text Compression Algorithms*, co-author H. Hsu; presented at the **2000 ACM Symposium on Applied Computing, Computer Uses in Education Track**, March 2000 in Como, Italy; and published in the **Proceedings of the 2000 ACM Symposium on Applied Computing**, ACM Press, March 2000, pp. 119-123.

- *Genetic Algorithms for Solving Open Shop Scheduling Problems*, co-author S. Miryala; presented at the 9^{th} **Portuguese Conference on Artificial Intelligence, EPIA'99**, September 1999 in Évora, Portugal, and published.

- *Lossless and Lossy Data Compression*, workshop given at the 30^{th}**ACM/SIGCSE Technical Symposium**, New Orleans, LA, March 24 - March 28, 1999; and abstract published in the **Proceedings of the** 30^{th} **SIGCSE Technical Symposium on Computer Science Education**, ACM Press, 1999.

- *Visualizing the CPU Scheduler and Page Replacement Algorithms*, co-author H. Hsu; presented at the **1999 SIGCSE Technical Symposium**, March 1999 in New Orleans, Louisiana; and published in the **Proceedings of the** 30^{th} **ACM/SIGCSE Technical Symposium**, ACM Press, March 1999, pp. 227–231.

- *Adding Breadth to CS1 and CS2 Courses Through Visual and Interactive Programming Projects*, co-authors R. Jiménez-Peris and M. Patiño-Martinez; published in the **Proceedings of the** 30^{th} **ACM/SIGCSE Technical Symposium**, ACM Press, March 1999, pp. 252–256.

- *Code Assignments in CDMA Networks: Distributed Algorithms and Genetic Algorithm Heuristics*, co-authors M. Moh and F. Chung; published in the **Proceedings of the IEEE International Conference on Networks**, July 1998, pp. 91-105.

- *Animating Parsing Algorithms*, co-author Y. Sugono, presented at the **1998 SIGCSE Technical Symposium**, March 1998 in Atlanta, Georgia; and published in the **Bulletin of the ACM/SIGCSE**, vol. 26, number 1, March 1998, pp. 232-236.

- *Applying Genetic Algorithms to Scheduling Problems*, presented at the 6^{th} **INFORMS Computer Science and Operations Research: Recent Advances in the Interface**, Monterey, CA, January 7 - 9, 1998; and abstract published in the **Proceedings of the** 6^{th} **INFORMS Computer Science and Operations Research**, January 1998, p. 18.

- *Genetic Algorithms*, workshop given at the **ACM/SIGCSE Technical Symposium**, San José, CA, February 28 - March 1, 1997; and abstract published in the **Proceedings of the** 28^{th} **SIGCSE Technical Symposium on Computer Science Education**, ACM Press, 1997, p. 400.

- *Heuristic Algorithms for the Terminal Assignment Problem*, co-author T. Chiu, presented at the **ACM Symposium on Applied Computing: Genetic Algorithm Track**, San José, CA, February 28 - March 2, 1997; and published in the **Proceedings of the 1997 ACM Symposium on Applied Computing**, ACM Press, 1997, pp. 247-251.

- *Computing with Haar Functions*, presented at the **ACM Symposium on Applied Computing: Genetic Algorithm Track**, San José, CA, February 28 - March 2, 1997; and published in the **Proceedings of the 1997 ACM Symposium on Applied Computing**, ACM Press, 1997, pp. 223-227.

- *Randomness of Finite Strings: A Reconstructive Approach*, co-authors F. Stern and T. Chiu, presented at the **ACM Symposium on Applied Computing: Scientific Computing Track**, San José, CA, February 28 - March 2, 1997; and published in the **Proceedings of the 1997 ACM Symposium on Applied Computing**, ACM Press, 1997, pp. 527-531.

- *An Overview of Visualization: its Use and Design*, co-authors J. Bergin, K. Brodlie, S. Rodger, M. Goldweber, R. Jiménez-Peris, M. Patiño-Martinez, M. McNally, T. Naps, and J. Wilson, published in the **ACM SIGCSE Bulletin**, volume 28, ACM Press, 1996, pp. 192-200.

- *Neuralis: A Neural Network Package*, co-author J. Williams; presented at the **Integrating Technology in Computer Science Education** conference; Barcelona, Spain, June 2-6, 1996; and published in the **ACM SIGCSE Bulletin**, volume 28, ACM Press, 1996, pp. 25-27.

- *A Comparative Study of a Penalty Function, a Repair Heuristic, and Stochastic Operators with the Set-Covering Problem*, co-authors T. Bäck, M. Schütz; published.

- *An Evolutionary Heuristic for solving problems in Coding Theory*, presented at the **Third European Conference on Artificial Life**, Granada, Spain, June 4-6, 1995; and abstract published in the **Proceedings of the Third European Conference on Artificial Life: Abstracts Book**, 1995, p. 90.

- *Evolutionary Heuristics for the Bin Packing Problem*, co-authors M. Schütz and J. Heitkötter, presented at the **International Conference on Artificial Neural Networks and Genetic Algorithms**, Ecole des Mines d'Alès, France, April 18-21, 1995; and published in the **Proceedings of the ICANNGA**, Springer-Verlag, Vienna, 1994, pp. 285-288.

- *An Evolutionary Heuristic for the Minimum Vertex Cover Problem*, co-author T. Bäck, abstract published in the **18. Deutsche Jahrestagung für Künstliche Intelligenz: Extended Abstracts**; Saarbrüken, Gesellschaft für Informatik, Bonn, pp. 83-84.

- *An Evolutionary Heuristic for the Maximum Independent Set Problem*, co-author T. Bäck, presented at the **IEEE World Congress on Computational Intelligence**, La Buena Vista, Florida, June 26-July 2, 1994; and published in the **Proceedings of the IEEE World Congress on Computational Intelligence**; IEEE Service Center, Piscataway, N. J., vol. 2, pp. 531-535.

- *Intractability: A Geometric Representation*, presented at the 25^{th} **ACM/SIGCSE Technical Symposium**, Phoenix, Arizona, March 10-12, 1994; and published in the **Bulletin of the ACM/SIGCSE**, vol. 26, number 1, March 1994, pp. 228-232.

- *Understanding the Bottom-Up SLR Parser*, co-author J. Williams, presented at the 25^{th} **ACM/SIGCSE Technical Symposium**, Phoenix, Arizona, March 10-12, 1994; and published in the **Bulletin of the ACM/SIGCSE**, vol. 26, number 1, March 1994, pp. 339-343.

- *The Zero/One Multiple Knapsack Problem and Genetic Algorithms*, co-authors T. Bäck and J. Heitkötter, presented at the **ACM Symposium on Applied Computing**, Phoenix, Arizona, March 6-8, 1994; and published in the **Proceedings of the 1994 ACM Symposium on Applied Computing**; 1994, pp. 188-193.

- *Walsh and Haar Functions in Genetic Algorithms*, presented at the **ACM Symposium on Applied Computing**, Phoenix, Arizona, March 6-8, 1994; and published in the **Proceedings of the 1994 ACM Symposium on Applied Computing**, editors, E. Deaton, D. Oppenheim, J. Urban, and H. Berghel; 1994, pp. 201-205.

- *An Evolutionary Approach to Combinatorial Optimization Problems*, co-authors T. Bäck and J. Heitkötter, presented at the 22^{nd} **Annual ACM 1994 Computer Science Conference**, Phoenix, Arizona, March 8-10, 1994; and published in the **Proceedings of the 22^{nd} Annual ACM Computer Science Conference**, ACM Press, NY, 1994, pp. 66-73.

- *Genetic Algorithms and Discrete Optimization*, co-author A. Batarekh, presented at the **International Conference on Operations Research**, Vienna, Austria, August 28-31, 1990; and published in the **Proceedings of the International Conference on Operations Research**, 1990.

- *Heuristics for the Integer Knapsack Problem*, co-author A. Batarekh, presented at the **Tenth International Computer Science Conference**, sponsored by the ACM, Santiago, Chile, July 23-27, 1990; and published in the **Proceedings of the X^{th} International Computer Science Conference**, 1990, pp. 161-172.

- *The Harmonium and Decision Problems*, co-author Aida Batarekh, presented at the **International Joint Conference on Neural Networks**, sponsored by the IEEE and International Network Society; San Diego, California, June 17-21, 1990; and published in the **Proceedings of the IJCNN**, vol. II, 1990, pp. 179-184.

- *Genetic Heuristics in Optimization Problems*, co-author M. Hoang, presented at the **ACM Eighteenth Annual Computer Science Conference**, Washington, DC, February 22-24, 1990; and abstract published in the **Proceedings of the ACM CSC**, 1990, p. 447.

- *Informatic Crossover in Genetic Algorithms*, presented at the **IEEE International Symposium on Information Theory**, San Diego, California, January 14-19, 1990; and abstract published in the **ISIT Abstract of Papers**, 1990, p. 62.

- *Efficient Testing Algorithms*, presented at **Neuroscience Integrative Functions Symposium** honoring Vernon Mountcastle, The Johns Hopkins School of Medicine, Baltimore, Maryland, October 11-12, 1989.

- *Optimal and Near-Optimal Space Efficient Decision Diagram Algorithms*, presented at the **ACM Seventeenth Annual Computer Science Conference**, Louisville, Kentucky, February 1989; and abstract published in the **Proceedings of the ACM CSC**, 1989, p. 467.

- *Applying Information Theory to the Construction of Decision Diagrams*, co-authors C. Hartmann and P. Varshney; presented at the **IEEE International Symposium on Information Theory**, Kobe, Japan, June 19-24, 1988; and abstract published in the **ISIT Abstract of Papers**, 1988, p. 132.

- *Counting Nodes in Binary Trees*, presented at the **17^{th} ACM/SIGCSE Technical Symposium**, Cincinnati, Ohio, February 1986; and published in the **Bulletin of the ACM/SIGCSE**, vol. 18, number 1, February 1986. pp. 182-185.

WORK IN PROGRESS

- *Relative Reconstructive Randomness*, co-author F. Stern.

- *Constructing Decision Trees for Identification Problems*, co-authors C. Hartmann and P. Varshney; to be submitted to the **IEEE Transactions on Pattern Analysis & Machine Intelligence** for possible publication.

- *Genetic Heuristics and Combinatorial Optimization Problems.*

RELATED EXPERIENCE

- Served and chaired several committees, including the retention, tenure and promotion, the search, the hearing, the curriculum committees, the computer resource, the executive, and the advisory committees.

- Reviewer for **Information Sciences** Journal.

- Reviewer for **IEEE Transactions on Circuits and Systems**.

- Reviewer for **International Journal of Fundamentals of Computer Science**.

- Reviewer for **Advances in Intelligent Systems** by Springer-Verlag, 2002.

- Reviewer for **National Science Foundation**, 2002.

- Reviewer for **Knowledge Extraction and Incorporation in Evolutionary Computation**, a special issue of "IEEE Transactions on System, Man, and Cybernetics", 2002.

- Reviewer for **Journal of Combinatorial Optimization**, 2003.

- Reviewer for:
  - ACM/SIGAPP Symposium on Applied Computing, 2001-5, 1994-7.
  - ACM/SIGCSE Technical Symposium, 2000-5, 1994-5, 1990, 1988-9.

- International Workshop on Intelligent Systems Design and Applications, 2000-4.
- Computer Science Education Journal; Special Issue in Computer Graphics, Visualization and Geometric Computing, 2002.
- International Conference on Hybrid Intelligent Systems, 2002, 2001.
- International Workshop on the Frontiers of Evolutionary Algorithms, 2002-5.
- 3^{rd} International Workshop on Rough Sets and Soft Computing, 1994.

- Session Chair:
  - Evolutionary Computing and Optimization session at the ACM Symposium on Applied Computing in Como, Italy, March 2000.
  - Opening session on Genetic Algorithms at the International Conference on Artificial Neural Networks and Genetic Algorithms, in Alès, France, April, 1995.
  - Programming Languages session at the 22^{th} ACM Computer Science Conference in Phoenix, Arizona, March, 1994.

- Member of the Program Committee:
  - Symposium on Knowledge Representation in Bioinformatics, Espoo, Finland, June 2005.
  - Sixth International Workshop on the Frontiers of Evolutionary Algorithms, Utah, July 2005.
  - Third International Workshop on Intelligent Systems Design and Applications, Oklahoma, August 2003.
  - Fifth International Workshop on the Frontiers of Evolutionary Algorithms, North Carolina, September 2003.
  - Fourth International Workshop on the Frontiers of Evolutionary Algorithms, North Carolina, March 2002.
  - Second International Workshop on Intelligent Systems Design and Applications, Atlanta, August 2002.
  - Fourth International Conference on Artificial Neural Nets and Genetic Algorithms, Slovenia, April, 1999.
  - Third International Conference on Artificial Neural Nets and Genetic Algorithms, Norwich, England, April 1997.
  - 12^{th} ACM/SIGAPP Symposium on Applied Computing, San José, California, February-March 1997.

INVITED LECTURES

- *Designing Effective Algorithm Visualizations*, **Program Visualization Workshop**, Porvoo, Finland, July 7 - 8, 2000.

COLLOQUIA PRESENTATIONS

- *Bioinformatics Challenges*, Department of Computer Science, **Helsinki University of Technology**, February 23, 2004.
- *Bioinformatics*, Department of Mathematics, **SJSU**, October 2002.
- *Genetic Algorithms*, Department of Biological Sciences, **SJSU**, September 2002.
- *Bioinformatics*, Department of Computer Science, **Helsinki University of Technology**, August 2002.
- *An Introduction To Genetic Algorithms*, lecture for the PhD students, Department of Computer Science, **University of Málaga**, Spain, December 13, 2000.
- *Genetic Algorithms: Some Theory*, Department of Computer Science, **Technische Universität München**, Germany, July 3, 1996.
- *Genetic Algorithms: Applications*, Department of Computer Science, **Technische Universität München**, Germany, June 26, 1996.
- *Evolutionary Programming and its Applications*, Department of Computer Engineering, **Santa Clara University**, Santa Clara, California, April 14, 1994.
- *Haar Functions in Evolution Strategies*, Department of Computer Science, **University of Dortmund**, Dortmund, Germany, July 16,1993.
- *Evolutionary-Based Optimization Algorithms*, Institute of Mathematics, **The Bulgarian Academy of Sciences**, Sofia, Bulgaria, April 21, 1992.
- *Testing Algorithms*, presented at the **Biomedical Engineering Twenty Fifth Anniversary Symposium**, The Johns Hopkins School of Medicine, Baltimore, Maryland, April 17-19, 1990.
- *Conversion Algorithms for Binary Decision Diagrams and their Efficiency*, Invited speaker at the **Logic and Computer-Aided Design Seminar**, Syracuse University, Syracuse, New York, April 25, 1986.

OTHER PRESENTATIONS

Introduction To Data Compression presented at CTVC, Syracuse, New York, January 12, 2001.
1992-2001: Various presentations at **San José State University** in Mathematics and Computer Science. Among them:

- *Bioinformatics*, Mathematics Seminar, October 4, 2002.
- *Omar Khayyam: the Persian Poet and Mathematician*, Mathematics and Computer Science Club, May 4, 1994.
- *Evolutionary Based Heuristics to Combinatorial Optimization Problems*, Computer Science Seminar, January 31, 1994.

- *Genetic Heuristics for the Maximum Cut, and the Minimum Tardy Task Problems*, Computer Science Seminar, December 7, 1993.
- *Genetic Algorithms and their Applications*, Mathematics and Computer Science Colloquium, April 22, 1993.
- *Decision Diagrams*, Computer Science Seminar, February 20, 1993.
- *Applications of Neural Networks in Speech Recognition*, Computer Science Seminar, November 30, 1992.
- Crossover Operators in Genetic Algorithms, Fourth Annual Science Review, Department of Engineering, October 1992.

1977-1985: Various presentations at **Syracuse University and Utica College of Syracuse University** in Mathematics and Computer Science. Among them:

- *A necessary and sufficient condition for unambiguous prefix-free codes*,
- *Applying generating functions for solving linear recurrence relations*,
- *Applications of group actions*,
- *Applications of information theory*,
- *Omar Khayyam's analytical geometry*,
- *Applying graph theory to the construction of combinatorial circuits.*

AWARDS

- **NIH Minority Access to Research Careers Award**, with Dr. Bros and Dr. Matthes of the Biological Sciences Department, and Dr. Collins of the Chemistry Department, June 2004 - May 2005.
- **2002 California State University Award for Education and Research in Biotechnology**, July - December 2002.
- **2001 California State University Award for Education and Research in Biotechnology**, May - August 2001.
- **DAAD Award**, August 1999 - July 2000. The German Scholarship: Deutscher Akademischer Austauschdienst.
- **DAAD Award**, August 1994 - August 1995.
- **1994 California State University Summer Research Award**, May - August 1994.
- **Fulbright Award**, January - July 1992.
- **Dana Research Award**, September 1989 - August 1990.