

David R. Ahlberg

OMIS Department | 323 Kenna Hall | Santa Clara University | 408-554-4076

EXPERIENCE

- 9/00 – Present **Santa Clara University Santa Clara, CA**
Full-time Lecturer: Teach undergraduate statistics courses for the Leavey School of Business. For three years coordinated the undergraduate business school's statistics program.
- 8/91 – Present **San Jose City College San Jose, CA**
Full-time tenured mathematics instructor: Teach first and second year college math, physics, and computer science classes. Taught beginning algebra, intermediate algebra, geometry, pre-calculus, trigonometry, math for general education, problem solving, finite math, business calculus, statistics, discrete math, calculus differential equations, C programming, and data structures. Taught the full calculus based physics sequence. Developed a problem-solving course for our mathematics curriculum. Serve on numerous committees including the academic senate and the faculty association. Constantly contribute to the department by caring about how and what we do as a department and how we teach our courses. I take particular care in how we teach our statistics classes. Always put forth tremendous effort towards making my classes excellent. Always contribute to the college as a whole with my time, thoughts and efforts to make our college a great place for everyone involved. Involved in a few professional organizations.
- 9/95 – 6/99 **DeAnza College Cupertino, CA**
Part-time mathematics instructor: Taught trigonometry, algebra, statistics and calculus. Shared and developed teaching ideas with various faculty members.
- 7/96 - 12/96 **Mathpert Incorporated Santa Clara, CA**
Consultant/Writer: Wrote the help system for the Mathpert mathematics educational software.
- Summer 96 **Intel Corporation Santa Clara, CA**
Faculty Intern: Worked at Intel to obtain first hand knowledge and experience on how Intel produces microprocessors. Did this to contribute to San Jose City College's semiconductor technician training partnership with Intel. Developed training modules for physics courses.
- 2/94 - 6/94 **KLD Labs Incorporated Huntington Station, NY**
Lead Programmer/Mathematician/Engineer: Worked on the ORIAN railroad rail image processing system. Researched, designed, developed and programmed algorithms for KLD's railroad rail profile imaging system. Programmed in C.
- Summer 92,94 **Planning Systems Incorporated McLean, VA**
Mathematician/Software Analyst: Analyzed mathematical noise detection algorithms and developed models to account for signal attenuation. Tested signal theories via computer simulation programs. Developed the simulations in C in a UNIX environment. Designed a communication link for an aquatic noise detection system.
- 6/85 - 11/90 **International Business Machines Poughkeepsie, NY**
Systems Programmer: Designed, developed, and tested code for IBM's premiere operating system, MVS. Inspected design proposals, reviewed publications, certified business plans, fixed code bugs, wrote development tools, developed and inspected the development processes.
- 8/83 - 5/85 **Carnegie-Mellon University Pittsburgh, PA**
Researcher/Programmer: Researched, designed, and developed parallel processing numerical analysis software routines in C and FORTRAN on VAX/VMS.
Teacher's Assistant: Taught two recitation sections of Calculus I during the fall of 1983 and two recitation sections of Calculus II during the spring of 1984.
- 8/82 - 8/83 **Virginia Commonwealth University Richmond, VA**
Teacher: Taught three courses of algebra I, algebra II, and trigonometry in a laboratory environment during each semester of the 1982 school year. Taught my own business calculus course during the summer of 1983.

COMPUTER LITERACY Operating Systems: Windows, Mac, Unix, Dos
 Software: Mathematica, Maple, Mathcad, Interactive Physics, Minitab, +
 Languages: C, C++

EDUCATION

8/92 - 5/94

San Jose State University

Furthered my education in math and computer science.

Relevant Course Curriculum: 3.4/4.0

4 Courses in Math and Computer Science

Systems and Languages: C, C++, on Unix and PC.

8/88 - 12/90

Rensselaer Polytechnic Institute Troy, N.Y.

Furthered my education in Graduate Computer Science

Relevant Course Curriculum: 3.5/4.0

4 Courses in Computer Science

Systems and Languages: C, C++, on Unix and PC.

8/83 - 5/85

Carnegie Mellon University Pittsburgh, PA

Master of Science degree in Applied Mathematics and Computer Science

Master's Thesis: "Parallel Processing; Does it have a chance?"

Relevant Course Curriculum: 3.8/4.0

10 Courses in Mathematics

7 Courses in Computer Science

Systems and Languages: C, Pascal, Fortran, on Unix, PC, and VMS.

8/82 - 8/83

Virginia Commonwealth University Richmond, VA

Furthered my education in Mathematics and Statistics

Relevant Course Curriculum: 3.9/4.0

10 Courses in Mathematics and Statistics

8/78 - 5/82

University of Wisconsin-Madison Madison, WI

Bachelor of Science Degree in Applied Mathematics, Engineering, and Physics

Relevant Course Curriculum: 3.4/4.0

10 Courses in Mathematics

10 Courses in Physics

6 Courses in Mechanical Engineering

PROFESSIONAL ORGANIZATIONS: CMCCC, MAA, AMATYC, MASTEP

REFERENCES: Furnished Upon Request