

Curriculum Vitae

PAUL L. BAILEY

Personal Details

Address: 224 Magnolia Street
Magnolia, AR 71753

Birthdate: February 8, 1957

Birthplace: San Turce, Puerto Rico

Degrees

- Ph.D. in Mathematics, University of California, Irvine, September 2002
Advisor: Michael D. Fried
- B.A. in Mathematics with Honors, Vassar College, May 1979

Education

- University of California, Irvine CA, September 1992 through June 2002
- Berklee College of Music, Boston MA, Fall 1981
- Vassar College, Poughkeepsie NY, January 1977 through May 1979
- University of Connecticut, Storrs CT, Summer 1977
- Vanderbilt University, Nashville TN, June 1975 through May 1976
- Hamden High School, Hamden CT, September 1972 through June 1975

Publications

- *Hurwitz Monodromy, Spin Separation, and Higher Levels of a Modular Tower*, with Michael D. Fried, Proceedings of Symposia in Pure Mathematics, Vol. 70 (2002)
- *Incremental Ascent of a Modular Tower via Branch Cycle Designs*, Thesis prepared at University of California, Irvine (2002)

Conferences

- Summer Session on Elliptic Curve Cryptography at MSRI in Berkeley CA, June 1997
- AMS-IMS-SIAM Joint Summer Research Conference on Curves over Finite Fields at University of Washington, Seattle WA, July 1997
- von Neumann Conference on Arithmetic Fundamental Groups at MSRI in Berkeley CA, August 1999

Computer Languages (in order of familiarity)

- Interpreters: MIIS, MUMPS, Basic, FOCAL
- Compilers: C, Pascal, Microsoft Visual Studio/.NET/MFC, Assembler
- Mathematics: GAP, MATLAB, Maple, Mathematica

Teaching Experience

The chart below describes the courses that I taught at University of California, Irvine, together with the approximate number of times I lectured or assisted in teaching.

Course	Name	Lecturer	Assistant
Math 2A	Calculus (derivatives)	1	2
Math 2B	Calculus (integrals)	0	3
Math 2C	Calculus (series)	0	2
Math 2D	Vector Calculus	1	2
Math 2E	Vector Fields	0	1
Math 3A	Linear Algebra	2	0
Math 3D	Differential Equations	1	1
Math 13	Introduction to Abstract Math	0	1
Math 120A	Group Theory	0	3
Math 120B	Ring Theory	0	3
Math 121A	Linear Algebra Theory	0	1
Math 124	Field Theory	0	2
Math 131A	Probability	0	1
Math 140A	Real Analysis	0	1

Business Experience

Between 1979 and 1992, I worked for Compucare, Incorporated, and Montgomery Ryland, Incorporated, both as an employee and as a consultant, in the role of a programmer/analyst, project leader, and technical advisor. I became the primary programmer for Compucare's clinical laboratory application, after which I was the leading technical designer and programmer for Compucare's order control system. Next I handled all phases of the development of Compucare's pharmacy management system, from analysis to design, through coding and installation.

Later, I became the laboratory project leader and leading technical coordinator of Compucare's installation of its entire suite of hospital information systems at two county hospitals in Los Angeles.

In 1992, upon becoming a graduate student, I continued to consult for Compucare on a part time basis, to aid in the maintenance of the the county's clinical applications.

In 1999, my partner John Chisholm and I formed EXM incorporated to continue the maintenance of the Los Angeles county laboratory and pharmacy systems.