

Ismor Fischer

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Education

- Postdoctorate University of Wisconsin-Madison, 1995-1997
Department of Biostatistics and Medical Informatics
Prof. David L. DeMets, Chair and Sponsor
- Ph.D. University of Wisconsin-Madison, 1989
Department of Mathematics
Dissertation: *Discrete Orthogonal Polynomials*
Prof. Richard A. Askey, Advisor (Special Functions of Mathematical Physics)
- M.S. Polytechnic University (New York City), 1982
Department of Mathematics
Thesis: *Constructive Homotopy Methods for Finding Fixed Points of Maps*
Prof. Igor Najfeld, Advisor (Numerical Analysis)
- B.S. City College of the City University of New York, 1978
Major Areas: Mathematics, Biology

Employment

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| 9/99 – present | Lecturer | University of Wisconsin Dept. of Statistics; Prof. Jun Shao, Chair |
| 8/98-8/99 | Assistant Scientist | University of Wisconsin Comprehensive Cancer Center (UWCCC)
Women's Health Study (WHS)
Dr. Polly Newcomb, Principal Investigator |
| 9/97-8/98 | Assistant Scientist,
Research Associate | University of Wisconsin-Madison,
Dept. of Biostatistics and Medical Informatics, |
| 9/95-8/97 | NIH Postdoctoral Trainee | Prof. David L. DeMets, Chair and Sponsor |
| | Lecturer | Dept. of Statistics; Prof. Greg Reinsel, Chair |
| 9/94-6/95 | Lecturer | University of Wisconsin-Oshkosh, Dept. of Mathematics |
| 8/93-8/94 | Honorary Fellow | University of Wisconsin-Madison, Dept. of Mathematics |
| 1/90-7/93 | Visiting Asst. Professor | U.S. Naval Postgraduate School, Dept. of Mathematics (Monterey, CA) |
| 9/89-12/89 | Lecturer | University of Wisconsin-Madison, Dept. of Mathematics |

Selected Projects

- Instructor for NIH-funded UW [SIBS](#) program, Summer 2004-2008.
- Funded collaboration with Dr. Patrick Meek (Pharmacy) on gastrointestinal disorders data analysis.
- Collaboration on formal models of symbiosis in systems and evolutionary biology.
- Analysis of population-based case-control data for modifiable risk factors of breast and other cancers (WHS)
- General Clinical Research Center (GCRC) statistical consultant to UW-Madison biomedical researchers
- Analysis of allergic response data in asthmatic patients
- Gender differences in adolescent health care: analysis of data from national surveys (NAMCS, NHACS, CAHSS)
- Longitudinal study of botulin injection effects on apoplectic muscle spasticity

Courses Instructed

Introduction to Biostatistics (for UW School of Medicine and Public Health, UW School of Pharmacy, and [SIBS](#))

Principles of Statistics (General), Introduction to Statistics (Engineers), Finite Mathematics, Number Systems, College Algebra, Calculus (Elementary, Advanced), Business Mathematics, Linear Algebra, Ordinary Differential Equations, Real Analysis, Complex Analysis, Topics in Analysis, Topics in Applied Mathematics

Developed, coordinated, and instructed Intermediate Analysis, and Introduction to Topology, Fractals, and Chaotic Dynamical Systems (Naval Postgraduate School)

Organizer and principal speaker of weekly mathematics seminar in Dynamical Systems (UW-Oshkosh)

Computer Languages

Pascal, Fortran, R, Minitab, SAS, SPlus, STATA, LaTeX, Word, Excel on Unix and PC Windows platforms

Teaching Awards and Honors

- Consistently outstanding scores on teaching evaluations
- Naval Postgraduate School Performance Award (October 1992)
- Naval Postgraduate School Outstanding Instructional Contribution Award (October 1991)
- University of Wisconsin Mathematics Department Teaching Award (May 1986)

M.S. Theses Directed

1. "On a Proposed Symbolic Dynamics for the Hénon Map", Antonio Fontana, Lt., U.S. Navy, June 1993, 162 pages.
2. "Introduction to Chaotic Dynamical Systems", Michael A. Bernhard, Lt., U.S. Navy, December 1992, 73 pages.
3. "Introduction to Real Orthogonal Polynomials", William H. Thomas II, Lt., U.S. Navy, June 1992, 105 pages.
4. "Fractals and Chaos", Philip F. Beaver, Capt., U.S. Army, June 1991, 172 pages.

Selected Publications

1. "Male Adolescent Use of Health Care Services: Where Are the Boys?" (co-authored with A. Marcell, M.D., J. Klein, M.D., M. Allan and P. Kokotailo, M.D.), *J. Adolescent Health*, Vol. 30, Issue 1, January 2002.
2. "Certain Nonbarycentric Cohesive Matrices" (co-authored with S.-G. Hwang), *Lin. Alg. and Appls.*, **239**, May 1996, pp. 185-200.
3. "Discrete Orthogonal Polynomial Expansions of Averaged Functions"; *J. Math. Anal. and Appls.*; **194**, 1995, pp. 934-947.
4. "A Rodrigues-Type Formula for the q -Racah Polynomials and Some Related Results"; *The Mathematical Legacy of Wilhelm Magnus: Groups, Geometry and Special Functions*, AMS Contemporary Mathematics Series, **169**, 1994, pp. 253-259.
5. "Sums of Like Powers of Multivariate Linear Forms"; *Math. Mag.*, **67** (1), Feb. 1994, pp. 59-61, cited.
6. "On a Conjecture of Pierce for Permanents of Singular Correlation Matrices" (co-authored with C. L. Frenzen); *SIAM J. Matrix Anal. and Appls.*; **14** (1), Jan. 1993, pp. 74-81.
7. Numerous problems in expository journals, including *Amer. Math. Monthly* and *Math. Mag.*
8. Journal reviewer for *Lin. Alg. and Appls.* and *Math. Mag.*, 1994, *Appl. Math. Letters*, 1999.

Miscellaneous

- Member of AMS, MAA, SIAM, AAAS, and other professional organizations
- Talks presented at AMS-MAA Joint Mathematics Meetings, seminars, and colloquia in various departments (e.g., see <http://sprott.physics.wisc.edu/Chaos-Complexity/> and click on [Spring 2000](#) for an abstract.)
- Highest CCNY score and top 20% quantile in national ranking on 1977 Putnam Exam Competition
- Undergraduate mathematics tutor for groups and individuals at CCNY MathLab facility

Other Information

- Website URL: <http://www.stat.wisc.edu/~ifischer/>