Paul E. Fishback
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## Education

- Ph.D. in Mathematics, University of Wisconsin-Madison, May 1992.

- A.B. in Mathematics, *summa cum laude*, Hamilton College, May 1985.

## Professional Experience

- Department of Mathematics, Grand Valley State University, 1993 - present.

  Responsible for teaching up to 12 credit hours of mathematics per semester, maintaining an active program of professional development, and participating in unit and university service. Courses taught include college algebra, calculus, communicating in mathematics, linear algebra, differential equations, vector analysis, operations research, modern algebra, advanced calculus, and complex variables.

  - Professor of Mathematics, 2006-present.
  - Associate Professor of Mathematics, Grand Valley State University, 1998-2006.
  - Assistant Professor of Mathematics, Grand Valley State University, 1993-1998.

- Visiting Assistant Professor of Mathematics, The College of Wooster, 1992-1993.

## Publications

- P. Fishback, *Linear and Nonlinear Programming with Maple: An Interactive, Applications-Based Approach*, CRC Press / Chapman & Hall, New York, 2009.

- N. Burch, P. Fishback, Orthogonal Polynomials and Regression-based Symmetric Derivatives, *The Real Analysis Exchange*, **32**, (2007), 597-607.

- P. Fishback, Taylor Series are Limits of Legendre Expansions, *The Missouri Journal of Mathematical Sciences*, **19** (2007), 29-34.

- N. Burch, P. Fishback, and R. Gordon, The Least Squares Property of the Lanczos Derivative, *Mathematics Magazine*, **5** (2005), 368-378.

- P. Fishback, Quadratic Dynamics in Binary Number Systems, *The Journal of Difference Equations and Applications*, **11**, (2005), 597-603.

- P. Fishback and M. Horton, Quadratic Dynamics in Matrix Rings: Tales of Ternary Number Systems, *Fractals*, **13**, (2005), 147-156.

- J. Burm and P. Fishback, Period-3 Orbits via Sylvester's Theorem and Resultants, *Mathematics Magazine*, **74**, (2001), 47-50.

- N. Ceglarek, P. Fishback, and T. Moleski, Integral Functions Whose Right Derivatives are Average Values of Periodic Functions, *The Pi Mu Epsilon Journal*, **10** (1998), 692-697.

- P. Fishback, A Composition Problem Involving Analytic Functions, *The Missouri Journal of Mathematical Sciences*, 10, (1998), 95-98.

- N. Ceglarek, P. Fishback, and T. Moleski, On the Differentiability of $\int_{t=0}^{t=x} \sin\left(\frac{1}{t}\right) dt$ and $\int_{t=0}^{t=x} \sin(\ln(t))\, dt$, *Mathematics Magazine*, **70**, (1997), 222-226.

- P. Fishback, On Nicely Placed Subsets of the Real Line, *Acta Scientiarum Mathematicarum*, **58**, (1993), 385-391.

### Recent National Presentations

- "A Two-Course Sequence on Mathematical Programming for Undergraduates," MAA General Contributed Paper Session, Joint Meetings of the MAA/AMS, San Francisco, January 13, 2010.

- "Student Presentations in an Operations Research Course," MAA Contributed Paper Session on Teaching Operations Research in the Undergraduate Classroom, Joint Meetings of the MAA/AMS, San Antonio, January 15, 2006.

- "The Least Squares Property of the Lanczos Derivative," Joint Meetings of the MAA/AMS, Baltimore, January 5, 2005.

- "Mandelbrot Sets in Matrix Rings: Tales of Binary and Ternary Number Systems," AMS Special Session on Difference Equations and Dynamical Systems, Joint Meetings of MAA/AMS, Phoenix, January 8, 2004.

### Select Service Activities

- Co-investigator for the GVSU National Science Foundation Mathematics Research Experiences for Undergraduates Program, 2004.

- Associate Editor, *Notes Series* of the Mathematical Association of America (MAA), 2003-2007.

- Member, Editorial Board of the *Notes Series* of the MAA, 1999-2007.

- Councilor, Pi Mu Epsilon ($\pi\mu\epsilon$), the national mathematics honor society, 2005-present.

- Department liaison to the Mathematical Association of American, 2003-2005, 2008-present.

- Founding faculty advisor of the Michigan Iota Chapter of $\pi\mu\epsilon$, 1999-present.

- Founding coordinator of the Michigan Undergraduate Mathematics Conference, 1999-2001.

### Award

- Grand Valley State University Alumni Association Outstanding Educator Award, December 2009.

### Society Memberships

- The Mathematical Association of America (MAA)

- Pi Mu Epsilon $\pi\mu\epsilon$

- Phi Beta Kappa $\phi\beta\kappa$