

**Mark Walker**  
Professor of Economics  
University of Arizona

**Curriculum Vitae**  
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**Contact Information:**

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**Education:**

B.A. (Economics), University of California, Santa Barbara, 1964

Ph.D. (Economics), Purdue University, 1970

**Primary Academic Appointments:**

1969-1972 Northwestern University: Assistant Professor of Managerial Economics and  
Decision Sciences

1972-1975 University of Toronto: Assistant Professor of Economics

1975-1990 State University of New York at Stony Brook:  
Assistant Professor, Associate Professor, Professor of Economics

1990- University of Arizona: Professor of Economics. (Department Chairman since July 2001.)

**Other Appointments:**

1974-1975 Stanford University: Visiting Assistant Professor of Decision Sciences

Fall 1981 University of Arizona: Visiting Associate Professor of Economics

## **Research:**

### *Published Papers:*

- “A Note on the Existence of Maximal Elements,” *Journal of Economic Theory*, Vol. 16 (1977), 470-474.
- “On the Informational Size of Message Spaces,” *Journal of Economic Theory*, Vol. 15 (1977), 366-375.
- “On the Characterization of Mechanisms for the Revelation of Preferences,” *Econometrica*, Vol. 46 (1978), 147-152.
- “A Generalization of the Maximum Theorem,” *International Economic Review*, Vol. 19 (1979), 267-272.
- “Identifying the Free Rider Problem,” (with T. Muench), Chapter 4 in *Aggregation and Revelation of Preferences*, ed. by J.-J. Laffont; North-Holland Publishing Co. (1979), 61-87.
- “On the Nonexistence of a Dominant-Strategy Mechanism for Making Optimal Public Decisions,” *Econometrica*, Vol. 48 (1980), 1521-1540.
- “A Simple Incentive-Compatible Scheme for Attaining Lindahl Allocations,” *Econometrica*, Vol. 49 (1981), 65-71.
- “Are Groves-Ledyard Equilibria Attainable?” (with T. Muench), *Review of Economic Studies*, Vol. 50 (1983), 393-396.
- “The Free Rider Problem: Experimental Evidence,” (with O. Kim) *Public Choice*, Vol.43 (1984), 3-24.
- “A Simple Auctioneerless Mechanism with Walrasian Properties,” *Journal of Economic Theory*, Vol. 32 (1984), 111-127.
- “Conflicting Interests, Decomposability, and Comparative Statics,” *Mathematical Social Science*, (1989).
- “Maximal Elements of Weakly Continuous Relations” (with D. Campbell), *Journal of Economic Theory*, Vol. 50 (1990), 459-464.
- “On the Generic Non-optimality of Dominant-Strategy Allocation Mechanisms: A General Theorem that Includes Pure Exchange Economies” (with L. Hurwicz), *Econometrica*, Vol. 58 (1990), 683-704.
- “Nonmanipulable Voting Schemes when Participants' Interests are Partially Decomposable” (with D. Moreno), *Social Choice and Welfare*, Vol. 8 (1991), 221-233.
- “Two Problems in Applying Ljung's 'Projection Algorithms' to the Analysis of Decentralized Learning,” (with D. Moreno), *Journal of Economic Theory*, Vol. 62 (1994), 420-427.
- “Convergence Theorems for a Class of Recursive Stochastic Algorithms” (with D. Moreno), in *The Economics of Decentralization: Complexity, Efficiency, and Stability*, ed. by John Ledyard, Kluwer Academic Press, 1995.
- “Learning to Play Cournot Duopoly Strategies” (with J. Cox), *Journal of Economic Behavior and Organization*, Vol. 36 (1998), 141-159.
- “An Experiment to Evaluate Bayesian Learning of Nash Equilibrium” (with J. Cox and J. Shachat), *Games and Economic Behavior*, Vol. 34 (2001), 11 – 33.
- “Minimax Play at Wimbledon” (with J. Wooders), *American Economic Review*, Vol. 91 (2001), 1521-1539.
- “Hide and Seek in Arizona” (with R. Rosenthal and J. Shachat), *International Journal of Game Theory*, Vol. 32 (2003), 273-293.

“Unobserved Heterogeneity and Equilibrium: An Experimental Study of Bayesian and Adaptive Learning in Normal Form Games” (with J. Shachat), *Journal of Economic Theory*, Vol. 114 (2004), 280-309.

*Expository Papers:*

“Mixed Strategy Equilibrium” (with J. Wooders), *The New Palgrave*, forthcoming.

“Stripped-Down Poker: A Classroom Game with Signaling and Bluffing” (with D. Reiley and M. Urbancic), *Journal of Economic Education*, forthcoming.

*Unpublished Papers:*

“Binary Markov Games” (with J. Wooders), under revision for *Games and Economic Behavior*.

“Experienced Bidders in Online Second-Price Auctions” (with R. Garratt and J. Wooders), currently under review for publication.

“Discrete Implementation of the Groves-Ledyard Mechanism” (with T. Swarthout), currently under review for publication.

*Work in Progress:*

“Reinforcement, Belief Learning, and Information Processing in Games” (with T. Swarthout).

“Big Points” (with W. Janss, J. Wooders).

“An Internet Experiment: The Effect of Experience on Strategic Behavior” (with J. Wooders).

“An Experimental Test of the Theory of Binary Markov Games” (with J. Wooders).

*Research Grants:*

June 15, 1979 - June 15, 1980: National Science Foundation, “Research on Mechanisms for Allocating Public Goods” (with T. Muench).

June 1, 1993 - May 30, 1995: National Science Foundation, “Learning to Play Nash Equilibrium: A Program of Experimental Research” (with J. Cox).

Sept 1, 1997 - Aug 31, 2000: National Science Foundation, “Cognitive Aspects of Strategic Behavior.”

June 1, 2001 - May 31, 2004: National Science Foundation, “Experience and Expertise in Strategic Behavior” (with J. Wooders).

*Recent Research Presentations:*

**Conferences:** U. of Minnesota Conference on Learning of Strategic Behavior, Public Choice Society, Econometric Society, NBER Conference on Decentralization, Stony Brook Summer Game Theory Conference, Economic Science Association, Association for Public Economic Theory 2000 (Warwick), Southwest Economic Theory Conference.

**Economics Departments:** College of William & Mary, University of Virginia, Virginia Tech, UC San Diego, Stony Brook, New York University, Rutgers, Yale, University of Miami, Rice, UCLA, Carlos III (Madrid), University of Alicante, Autonomia de Barcelona, Pompeu Fabra, UC Santa Barbara, Caltech/UCLA Seminar in Game Theory and Experimental Economics, Barcelona Jocs (Autonomia/Pompeu Seminar in Game Theory), Arizona State University, UC Berkeley, U of Texas, Georgetown University, University of Maryland, University of Warwick, Oxford University, University College Dublin, Indiana University, Purdue University.

*Editorial Board:* Journal of Public Economic Theory (1997 – present)

*Refereeing Performed For:*

National Science Foundation, Econometrica, Review of Economic Studies, Journal of Economic Theory, Science, Journal of Comparative Economics, International Economic Review, Journal of Financial and Quantitative Analysis, Journal of Public Economics, Quarterly Journal of Economics, Scandinavian Journal of Economics, Journal of Mathematical Economics, International Journal of Game Theory, Social Choice and Welfare, Mathematical Social Science, Complex Systems, Journal of Economic Behavior and Organization, Games and Economic Behavior, American Economic Review, Economic Theory, Economic Design, Journal of Real Estate.

**Teaching:**

*Undergraduate Courses Taught:*

Economics of Information, the Internet, and e-Commerce  
Linear programming and other decision models  
Intermediate microeconomics  
Decision analysis and game theory  
Managerial economics  
Social choice theory

*Doctoral Courses Taught:*

First-year microeconomic theory  
Advanced microeconomic theory  
Mathematical economics  
Analytical comparative systems and mechanism design  
First-year mathematics

*MBA Courses Taught:*

Economics of Information, the Internet, and e-Commerce  
Linear programming and other decision models  
Managerial economics

*Ph.D. Dissertations Supervised:*

Oliver Kim (Ph.D. 1981), first appointment at Temple University; currently Ernst & Young Professor of Accounting, University of Maryland.

David Ring (Ph.D. 1982), first appointment at Hartwick College; currently Associate Professor at SUNY Oneonta.

Ashis Dev (Ph.D. 1983), first appointment to India Administrative Service.

Aninda Bose (Ph.D. 1984), first appointment at Ohio State University; deceased 1984.

Diego Moreno (Ph.D. 1991), first appointment at University of Arizona; currently Catedratico/Professor at Universidad Carlos III, Madrid.

Jason Shachat (Ph.D. 1996), first appointment at UC San Diego; currently Associate Professor at National University of Singapore.

Todd Swarthout (Ph.D. 2002), first appointment as Associate Director, Economic Science Laboratory, University of Arizona; currently Operations Director, Experimental Economics Center, Georgia State University.

**University and Departmental Service:**

Chairman, Faculty Recruiting Committee (Economics Dept.), 1978-1980, 1982-1984, 1988-1989; member of the committee from 1976 to 1985. (Stony Brook)

Director of Graduate Studies (Economics Dept.), 1985-1988. (Stony Brook)

Chairman, University Athletic Advisory Committee, January 1985 to August 1986. (Stony Brook)

Member, Ad Hoc Planning Committee on the Future of Intercollegiate Athletics at Stony Brook, September 1987 to January 1988.

Chairman, University Long Range Planning Committee, 1987-1988; committee member 1985-1988. (Stony Brook)

Chairman, Faculty Recruiting Committee (Economics Dept.), 1990-1995 (U of Arizona); member of the committee 1995-1999.

Member, Eller College Promotion and Tenure Committee, 1991-1995. (U of Arizona)

Chairman, Eller College Task Force on the Undergraduate Program, 1994-1995. (U of Arizona)

Chairman, Economics Department Promotion & Tenure Committee, 1995-1996, 1998-1999; member of the committee in other years. (U of Arizona)

Chairman, Department of Economics, 2001 – present. (U of Arizona)

Member, Strategic Planning and Budget Advisory Committee, 2005 – present. (U of Arizona)