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Education

Institution	Degree	Date	Field
University of California, Berkeley	Ph.D.	1986	Economics
University of California, Berkeley	M.A.	1984	Statistics
University of California, Berkeley	B.A.	1978	Mathematics

Positions

Professor — Department of Economics, U. T. Austin, Fall 1998 to present.

Associate Professor — Department of Economics, U. T. Austin, January 1994 to Fall 1998.

Associate Professor — Department of Economics, U. C. San Diego, 1992 to December 1993.

Assistant Professor — Department of Economics, U. C. San Diego, 1986 to 1992.

Honors

ISI Thomson Scientific Highly Cited Researcher

E. C. McCarty Centennial Professorship

Publications and forthcoming work

"Regression Efficacy and the Curse of Dimensionality," forthcoming in *Recent Advances and Future Directions in Causality, Prediction, and Specification Analysis*.

"Torture in Counterterrorism: Agency Incentives and Slippery Slopes," *Journal of Public Economics*, **96**, 33-41 (2012).

"Correlated Equilibrium Existence for Infinite Games with Type-Dependent Strategies," *Journal of Economic Theory*, **146**, 638-655 (2011).

"Balance and Discontinuities in Infinite Games with Type-Dependent Strategies," *Journal of Economic Theory*, **146**, 656-671 (2011).

"Proper scoring rules with arbitrary value functions," with F. Fang and Andrew B. Whinston, *Journal of Mathematical Econonomics* **46**(6), 1200-1210 (2010).

An Introduction to Mathematical Analysis for Economic Theory and Econometrics, with Phillip Dean Corbae and Juraj Zeman, Princeton University Press (March, 2009).

" 'Putting Your Money Where Your Mouth Is.' - Betting Mechanism Design for Selecting Experts and Producing Reliable Forecasts," with Fang Fang and Andrew B. Whinston, *Review of Network Economics*, **6**(3), 214-238 (2007).

"Product Bundling," with Xianjun Geng and Andrew B. Whinston, in *Handbook of Economics and Information Systems*, Terrence Hendershott (ed.), Elsevier 2006.

"Bundling Information Goods of Decreasing Value," with Xianjun Geng and Andrew B. Whinston, *Management Science*, **51**(4), 662-668 (April 2005).

"Nash Equilibrium and Generalized Integration for Infinite Normal Form Games," *Games and Economic Behavior* **50**, 332-365 (2005).

"Nearly Compact and Continuous Normal Form Games: Characterizations and Equilibrium Existence," with C. J. Harris and W. Zame, *Games and Economic Behavior* **50**, 208-224 (2005).

"The Gap Between Probability and Prevalence: Loneliness in Vector Spaces," *Proceedings of the American Mathematical Society* **129**, 451-457 (2001).

"Radical New Product Introduction," with Xianjun Geng and Andrew Whinston, *International Journal of Electronic Commerce*, **5**(3), 169-189 (2001).

"Neural Network Approximation of Continuous Functionals and Continuous Functions on Compactifications," *Neural Networks* **12**, 467-477 (1999).

"Consistent Specification Testing with Nuisance Parameters Present Only Under the Alternative," with Halbert White, *Econometric Theory* **14**, 295-325 (1998).

"Exchange in a Network of Trading Posts," with Ross Starr, forthcoming in *Markets, Information, and Uncertainty: Essays in Economic Theory in Honor of Kenneth Arrow,* G. Chichilnisky, ed., Cambridge University Press (1998).

"Countably Additive Subjective Probabilities," *Review of Economic Studies* **64**, 125-146 (1997).

"Monitoring Structural Change," with C. J. Chu and H. White, *Econometrica* **64**(5), 1045-1065 (1996).

"Theoretical Considerations for Choosing a Network Topology," Ch. B.10, *Handbook of Neural Computation*, Fiesler, E. and R. Beale (eds), Institute of Physics and Oxford University Press (1996).

"Equilibrium Refinement for Infinite Normal Form Games," with Leo Simon, *Econometrica* **63**(6), 1421-1444 (1995).

"Precision and Approximate Flatness in Artificial Neural Networks," *Neural Computation* **7**(5), 1021-1039 (1995).

"Sup-Norm Approximation Bounds for Networks through Probabilistic Methods," with H. White and J. Yukich, *IEEE Transactions on Information Theory* **41**(4), 1021-1027 (1995).

"Degree of Approximation Results for Feedforward Networks Approximating Unknown Mappings and Their Derivatives," with K. Hornik, H. White, and P. Auer, *Neural Computation* **6**(6), 1262-1275 (1994).

"A Further Note on Bayesian Information Topologies," *Journal of Mathematical Economics* **22**, 189-193 (1993).

"Maximal Strategy Sets for Continuous-Time Game Theory," *Journal of Economic Theory* **56**, 2, 235-265 (1992).

"Some Measurability Results for Extrema of Random Functions Over Random Sets," with Halbert White, *Review of Economic Studies* **59**, 495-512 (1992).

"Using Feedforward Networks to Distinguish Multivariate Populations," with Halbert White, Proceedings of the International Joint Conference on Neural Networks, IEEE Press, New York, I:788-793 (1992).

"Bayesian Information Topologies," *Journal of Mathematical Economics* **19**, 3, 233-254 (1990).

"Universal Approximation of an Unknown Mapping and its Derivatives using Multilayer Feedforward Networks," with Kurt Hornik and Halbert White, *Neural Networks* **3**, 551-560 (1990). (Reprinted in *Artificial Neural Networks: Approximation & Learning Theory*, ed. H. White, Blackwell (1992).)

"Adaptive Efficient Weighted Least Squares with Dependent Observations," with Halbert White, in *Directions in Robust Statistics and Diagnostics, Part 2*, W. Stahel and S. Weisberg eds., IMA Volumes in Mathematics and its Applications, **34**, Springer-Verlag, New York (1990).

"Approximating & Learning Unknown Mappings Using Multilayer Feedforward Networks with Bounded Weights," with Halbert White, *Proceedings of the International Joint Conference on Neural Networks*, Washington, D. C., **III**, 7-16. San Diego: SOS Printing (1990). (Reprinted in *Artificial Neural Networks: Approximation & Learning Theory*, ed. H. White, Blackwell (1992).)

"Extensive Form Games in Continuous Time, Part I: Pure Strategies," with Leo Simon, *Econometrica* **57**, 5, 1171-1214 (1989).

"Multi-layer Feedforward Networks are Universal Approximators," with Kurt Hornik and Halbert White, *Neural Networks* **2**, 359-366 (1989). (Reprinted in *Artificial Neural Networks: Approximation & Learning Theory*, ed. H. White, Blackwell (1992), and in *Artificial Neural Networks: Concepts and Control Applications*, ed. V. Rao Vemuri, IEEE Computer Society Press (1992).)

"Universal Approximation Using Feedforward Networks with Non-sigmoid Hidden Layer Activation Functions," with Halbert White, *Proceedings of the International Joint Conference on Neural Networks*, Washington, D. C., I, 613-617. San Diego: SOS Printing (1989). (Reprinted in *Artificial Neural Networks: Approximation & Learning Theory*, ed. H. White, Blackwell (1992).)

"More on the Multivariate Helly Theorem," *Publications of the Institute of Statistics of the University of Paris* **XXXIV**, fas. 2, 97-101 (1989).

Working papers and work in progress

"Skorokhod's Representation Theorem for Sets of Probabilities," with Martin Dumav, working paper, Sept. 2011.

"Buying Truth: Competition and Liability in Certification Markets," with Hong Xu and Andrew Whinston, working paper, April 2011

"The Virtues of Hesitation," with Urmee Khan, working paper, April 2011.

"The von Neumann/Morgenstern Approach to Ambiguity," with Martin Dumav, working paper, August 2011.

"On the Recoverability of Forecasters' Preferences," with Robert Lieli, July 2009.

"Acquiring and Aggregating Costly Information From Sources of Differing Quality," March 2007.

"Some Genericity Analyses in Nonparametric Statistics," November 2002.

Professional services

Member, Editorial Board, *Journal of Mathematical Economics,* 1995-1997.

Referee for: *Econometrica, Journal of Economic Theory, Games and Economic Behavior, Neural Networks, Neural Computation, IEEE Transactions on Neural Networks, Energy, Journal of Nonlinear Science, Econometric Theory, Journal of Environmental Economics and Management, Information Theory, RAND Journal of Economics, Annals of Operations Research, Operations Research, Journal of Multivariate Analysis, Communications in Statistics, Journal of Economics, European Physical Journal B.*