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## TIMOTHY H. SAVAGE

Ph.D. Economics,  
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Timothy H. Savage holds a Ph.D. in economics with specializations in labor economics and econometrics. He has nearly a decade of experience in economics consulting in a wide variety of areas. In labor economics, he has examined a variety of workplace practices, including pay, promotion, discipline, and termination, to assess pattern or practice claims of discrimination. He has calculated damages in numerous wrongful termination suits.

In the area of energy and the environment, Dr. Savage has conducted a major study to estimate consumer willingness-to-pay for haze reduction in national parks. He has assisted in the preparation of FERC testimony regarding allegations of market manipulation in California energy markets through the use of specific practices involving interstate electricity flows, congestion pricing, and maintenance outages. He has also filed testimony regarding standards for particulate matter and SO<sub>2</sub> in National Ambient Air Quality Standards (NAAQS) proceedings under the Clean Air Act.

In the area of financial economics, Dr. Savage has conducted statistical analyses of discrimination claims in mortgage underwriting and pricing as well as claims of redlining in mortgage lending and insurance. He has conducted analyses to evaluate whether particular credit scoring mechanisms have disparate impacts on the credit scores of minorities and how credit utilization and specific derogatory credit entries affect credit scores. He has also performed analyses of residential mortgage-backed securities and of secondary mortgage markets.

In the area of antitrust, Dr. Savage has extensive experience in the statistical estimation of price and demand relationships to infer market definition. He has evaluated the unilateral and coordinated effects of vertical and horizontal mergers and has analyzed the competitive effects of bundling. He has also conducted analyses of commonality, typicality, and predominance associated with class certification.

## PROFESSIONAL EXPERIENCE

- 2009-            Consultant, Berkeley Economic Consulting
- 2007–2008    *Principal*, CRA International
- 2005–2007    *Principal*, ERS Group
- 1999–2005    *Principal* (2005), *Associate Principal* (2002–2005), *Senior Associate* (1999–2002), CRA International

## PROFESSIONAL AFFILIATIONS

- American Economic Association
- American Bar Association

## HONORS AND AWARDS

- Phi Beta Kappa, 1990

## PUBLICATIONS, RESEARCH, AND PRESENTATIONS

“Comments on *Risk and Exposure Assessment to Support the Review of the SO<sub>2</sub> Primary National Ambient Air Quality Standards: First Draft.*” Presented to the Clear Air Science Advisory Committee (CASAC) and the U.S. Environmental Protection Agency, July 2008.

“The Long-Term Effects of Youth Unemployment.” With Thomas A. Mroz. *Journal of Human Resources*, Vol. 41, No. 2, pp. 259–293.

“Methods and Results from a New Survey of Values for Eastern Regional Haze Improvements.” With Anne E. Smith, Michael A. Kemp, and Catherine L. Taylor. *Journal of the Air and Waste Management Association*, Vol. 55, No. 11.

“Finite Sample Overfitting and Biases in Nonparametric Kernel Regressions.” With Thomas A. Mroz. Unpublished manuscript, March 2004.

“The Union Wage Gap in the Presence of Endogenous Union Membership.” With Thomas A. Mroz. The University of North Carolina Working Paper Series, December 1997.

## EXPERT WITNESS TESTIMONY AND REPORTS

“Comments on the Risk and Exposure Assessment to Support the Review of the SO<sub>2</sub> Primary National Ambient Air Quality Standards: First Draft.” Prepared with Anne Smith, Ph.D. on behalf of the Utility Air Regulatory Group, August 2008.

Expert Witness Report on damages in the matter of *Betty Jean Turner v. Michael Chertoff, Secretary of Department of Homeland Security*, on behalf of the Plaintiff regarding an alleged wrongful termination, August 2008.

“Further Analysis of Econometric Evidence that Satellite Radio and Terrestrial Radio Are Demand Substitutes.” Prepared with Martino De Stefano, Ph.D. and Steven R. Brenner, Ph.D., submitted in Federal Communications Commission Media Bureau Docket No. 07-57, January 2008.

“Econometric Analysis of the Relationship between Satellite Radio Penetration and Terrestrial Radio Coverage.” Prepared with Martino De Stefano, Ph.D. and Steven R. Brenner, Ph.D., submitted in Federal Communications Commission Media Bureau Docket No. 07-57, November 2007.

Nonuser Valuation of Haze Reduction in Eastern National Parks. Prepared with Anne E. Smith, Ph.D., Michael A. Kemp, and Katherine L. Taylor, September 2005.

“The Availability of Minority and Woman-Owned Businesses for the San Francisco Municipal Railway.” Prepared with Mark Berkman, Ph.D., June 2005.

Submission to the U.S. International Trade Commission in the matter of *Softwood Lumber from Canada, Investigation Nos. 701-TA 416 and 731-TA-928, Section 129 Consistency Determination*, on behalf of the Canadian Lumber Trade Alliance regarding analytical and statistical analyses of the domestic effects of the Softwood Lumber Agreement, October 2004. Prepared with Richard D. Boltuck.

Expert Statement in the matter of *Douglas Turner v. Applera Corporation*, on behalf of Applera Corporation regarding alleged termination based on age, September 2004.

Deposition testimony in the matter of *Alica Jurisova v. D. Andrej Juris*, on behalf of the defendant regarding wage determination and job search efforts, June 2004.

“Disparities in Minority- and Woman-Owned Businesses and Self-Employment Earnings.” Prepared for the City and County of San Francisco with Mark Berkman, Ph.D., and Robert Fairlie, Ph.D., March 2004.

Supplemental Expert Rebuttal Report in the matter of *Stephen Sneeringer v. National Electronics Warranty Corporation*, on behalf of the National Electronics Warranty Corporation regarding an alleged termination based on age, February 2004.

Expert Rebuttal Report in the matter of *Stephen Sneeringer v. National Electronics Warranty Corporation*, on behalf of the National Electronics Warranty Corporation regarding an alleged termination based on age, February 2004.

Expert Witness Rebuttal Report on Damages in the matter of *Tyson Foods, Inc. v. ConAgra Foods, Inc.*, on behalf of ConAgra Foods, Inc. regarding a Lanham Act counterclaim, August 2003. Prepared with Mark Berkman, Ph.D. and Phillip Taylor, Ph.D.

Expert Disclosure of Timothy H. Savage in the matter of *Gloria Oliver-Simon v. Anthony Principi, Secretary, U.S. Department of Veterans Affairs* on of the Gloria Oliver-Simon regarding alleged failures to promote based on age and race, June 2003.

Expert Witness Report on Damages in the matter of *Tyson Foods, Inc. v. ConAgra Foods, Inc.*, on behalf of ConAgra Foods, Inc. regarding a Lanham Act counterclaim, June 2003. Prepared with Mark Berkman, Ph.D. and Phillip Taylor, Ph.D.

“The Availability of Minority and Woman-Owned Businesses for the San Francisco Municipal Railway.” Prepared with Mark Berkman, Ph.D., June 2003.

“Comments on the Environmental Protection Agency’s Third External Review Draft of Air Quality Criteria for Particulate Matter (April 2002).” Prepared with Anne Smith, Ph.D. on behalf of the Utility Air Regulatory Group, July 2002.