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November 2018

CURRENT POSITION

2014 – Present Associate Director for Research, Berkeley Center for Health Technology;
Associate Adjunct Professor of Health Economics, School of Public Health, University of
California, Berkeley.

PREVIOUS POSITIONS

2011 – 2014 Associate Director for Research, Berkeley Center for Health Technology;
Assistant Adjunct Professor of Health Economics, School of Public Health, University of
California, Berkeley.

2008 – 2011 Associate Director for Research and Training, Nicholas C. Petris Center on
Health Care Markets and Consumer Welfare; Assistant Adjunct Professor of Health
Economics, School of Public Health, University of California, Berkeley

2007 – 2008 Associate Director for Research and Training, Nicholas C. Petris Center on
Health Care Markets and Consumer Welfare, School of Public Health, University of
California, Berkeley.

2004 – 2007 Associate Director for Research, Nicholas C. Petris Center on Health Care
Markets and Consumer Welfare, School of Public Health, University of California,
Berkeley.

2003 – 2004 Senior Researcher and Acting Director, Nicholas C. Petris Center on Health Care
Markets and Consumer Welfare, School of Public Health, University of California,
Berkeley.

2002 – 2003 Senior Researcher, Nicholas C. Petris Center on Health Care Markets and
Consumer Welfare, School of Public Health, University of California, Berkeley.

2001 – 2004 Online Facilitator, MBA Program, Indiana Wesleyan University. Taught five online graduate level courses (and one prerequisite) during this period (two in Applied Business Statistics, one in Economics Prerequisite, two in Managerial Economics, and one in Advanced Managerial Economics).

EDUCATION

Ph.D., Health Services and Policy Analysis (program name recently changed to Health Policy), Specialization in Health Economics. University of California, Berkeley, 1999.

M.A., Economics, California State University, East Bay, 1991.

B.S. (cum laude), Business Administration, Option in Management Information Systems, Option in Accounting, California State University, East Bay, 1987.

TEACHING

Microeconomics of Health Care Policy – MPH program, School of Public Health, University of California at Berkeley (Fall 2015, 2016)

Analytic Methods for Health Policy and Management – MPH program, School of Public Health, University of California at Berkeley (Spring 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018)

Applied Business Statistics - MBA Program, Indiana Wesleyan University (August – October, 2001; February – April, 2002)

Economics Prerequisite - MBA Program, Indiana Wesleyan University (June, 2001)

Managerial Economics - MBA Program, Indiana Wesleyan University (April – June, 2004: two sections of same course)

Advanced Managerial Economics - MBA Program, Indiana Wesleyan University (July – September, 2001)

THESIS ADVISING

Economics

Vishnu Murthy (2018). Undergraduate Honors Thesis in Economics: “Assessing the Effect of County-Level Public Health Expenditures on County-Level Public Assistance Medical Benefits in California.” Chair: Timothy Brown

Mridula Dilip (2016). Undergraduate Honors Thesis in Economics: “Income Inequality in the Burden of Out-of-Pocket Expenditures of Individuals with Chronic Conditions (2002-2012).” Chair: Timothy Brown

Min-Young An (2013). Undergraduate Honors Thesis in Economics: “The Effects of Regulations on Dental Hygienists: Influences on the Income and Labor Hours of Dentists and Dental Hygienists.” Chair: Timothy Brown.

Public Health

Jessica Phan (2017). Undergraduate Honors Thesis in Public Health: “The Association between Adverse Childhood Experiences and Joint Pain: Examining the Role of Gender.” Chair: Timothy Brown.

Peter T. Buto (2017). Undergraduate Honors Thesis in Public Health: “The Impact of Adverse Childhood Experiences on Joint Pain Among Minority Populations.” Chair: Timothy Brown

Emilio Galen (2015). Master’s Thesis in Health and Medical Science: “The Quixotic Quest for Quality: A History of US Health Care Quality Improvement & An Analysis Demonstrating Vetted Process Measures Still Don’t Improve Health Outcomes in Federal Quality Improvement Programs.” Chair: Timothy Brown

Nikitha Mangalapally (2013). Undergraduate Honors Thesis in Public Health: “Preterm Birth: Maternal and Paternal Factors Affecting Birth Outcome.” Chair: Timothy Brown.

Anupriya Dayal (2011-2012). Undergraduate Thesis in Public Health: “The Biological Effects of Condom Lubricants and Public Health Policy Implications: Focus on College Culture.” Chair: Timothy Brown.

SERVICE

SPH Student Affairs Committee (renamed the Committee for Student Affairs) (2017, 2018)

SPH Health Policy and Management Admissions Committee (2012, 2013, 2015, 2016).

SPH Undergraduate Management Committee (2012 – present).

Agency for Health Research and Quality (AHRQ) Healthcare System and Value Research (HSVR) Study Section (2015 – present)

Grant reviewer for WorkSafeBC, the Worker's Compensation Board of British Columbia, Canada (2014, 2015).

PEER-REVIEWED PUBLICATIONS

* = Student

55. **Brown TT**, Atal JP. How Robust Are Reference Pricing Studies On Outpatient Medical Procedures? Three Different Preprocessing Techniques Applied To Difference-In-Differences. *Health Economics*. Forthcoming.

54. **Brown TT**, Guo C, Whaley C. Reference-Based Benefits for Colonoscopy and Arthroscopy: Large Differences in Patient Payments Across Procedures but Similar Behavioral Responses. *Medical Care Research and Review* Forthcoming. <https://doi.org/10.1177/1077558718793325>
53. Gudixsen K, **Brown TT**, Whaley C King J. California's Drug Transparency Law: Navigating The Boundaries Of State Authority On Drug Pricing *Health Affairs* 2018 37(9): 1503-1509.
52. Whaley C. **Brown TT**. Firm Responses to Targeted Consumer Incentives: Evidence from Reference Pricing for Surgical Services. *Journal of Health Economics* 2018 61: 111-133
51. Whaley C, **Brown TT**, Robinson JC. Consumer Responses to Price Transparency Alone Versus Price Transparency Combined with Reference Pricing. *American Journal of Health Economics*. Forthcoming. Accepted 01-17-2018. https://www.mitpressjournals.org/doi/abs/10.1162/ajhe_a_00118
50. Oman D, **Brown TT**. (2018). Health Policy and Management, Religion, and Spirituality. In D. Oman (Ed.) *Why religion and spirituality matter for public health: Evidence, implications, and resources* (pp. 191–210), Cham, Switzerland: Springer Nature. https://doi.org/10.1007/978-3-319-73966-3_11
49. **Brown TT**, *Partanen J, *Chuong L, *Villaverde V, *Griffin AC, *Mendelson A. Discrimination Hurts: The Effect of Discrimination on the Development of Chronic Pain. *Social Science & Medicine*. 2018 204: 1-8.
48. Whaley C, *Guo C. **Brown TT**. The Moral Hazard Effects of Consumer Responses to Targeted Cost-Sharing. *Journal of Health Economics* 2017 56: 201-221.
47. Robinson JC, Whaley C, **Brown TT**. Association of Reference Pricing with Drug Selection and Spending. *New England Journal of Medicine* 2017 377(7): 658-665.
46. Robinson JC, **Brown TT**, Whaley C. Reference Pricing Changes the 'Choice Architecture' of Health Care for Consumers. *Health Affairs* 2017 36(3): 524-530
45. Robinson JC, Whaley C, **Brown TT**. Reference Pricing, Consumer Cost Sharing, and Insurer Spending for Advanced Imaging Tests. *Medical Care* 2016 54(12): 1050-1055.
44. Robinson JC, Whaley C, **Brown TT**. Association of Reference Pricing for Diagnostic Laboratory Testing with Changes in Patient Choices, Prices, and Total Spending for Diagnostic Tests. *JAMA Internal Medicine* 2016 Sep 1;176(9):1353-9.
43. **Brown TT**. Returns to Investment in California County Departments of Public Health. *American Journal of Public Health*. 2016 Aug 106(8): 1477-1482. **AJPH 2016 Editor's Choice Award for Paper of the Year.**

42. Robinson JC, **Brown TT**, *Whaley C, Finlayson E. Association of reference payment for colonoscopy with consumer choices, insurer spending, and procedural complications. *JAMA Internal Medicine*. 2015 Nov 1;175(11):1783-9. **AHRQ Director's Award Recipient**
41. Robinson JC, **Brown TT**, *Whaley C, Bozic K. Consumer Choice between Hospital-Based and Freestanding Facilities for Arthroscopy: Impact on Prices, Spending, And Surgical Complications. *Journal of Bone and Joint Surgery*. 2015 Sep 16; 97 (18): 1473 -1481.
40. **Brown TT**, Robinson JC. Reference Pricing with Endogenous or Exogenous Payment Limits: Impacts on Insurer and Consumer Spending. *Health Economics*. 2016; 25:740-749.
39. **Brown TT**. The Subjective Well-Being Method of Valuation: An Application to General Health Status. *Health Services Research*. 2015. 50(6): 1996-2018.
38. Robinson JC, **Brown TT**, *Whaley C. Reference-Based Benefit Design Changes Consumer Choices and Employer Payments for Ambulatory Surgery. *Health Affairs*. 2015. 34(3): 415-422.
37. Robinson JC, **Brown TT**. Quantifying opportunities for hospital cost control: medical device purchasing and patient discharge planning. *American Journal of Managed Care*. 2014, 20(9): e418-e424.
36. **Brown TT**, *Martinez-Gutierrez MS, *Navab B. The Impact of Changes in County Public Health Expenditures on General Health in the Population. *Health Economics, Policy and Law*. 2014, 9(3): 251-269.
35. **Brown TT**. How Effective Are Public Health Departments at Preventing Mortality? *Economics & Human Biology* 2014, 13: 34-45. Online First in 2013. **AcademyHealth PHSR Article of the Year**.
34. **Brown TT**, Hong JS, Scheffler RM. Evaluating the Impact of California's Full Service Partnership Program Using a Multidimensional Measure of Outcomes. *Administration and Policy in Mental Health and Mental Health Services Research* 2014, 41(3):390-400.
33. Robinson JC, **Brown TT**. Increases in Consumer Cost Sharing Redirect Patient Volumes and Reduce Hospital Prices for Orthopedic Surgery. *Health Affairs* 2013, 32(8): 1-8.
32. Yoon J, Bruckner TA, **Brown TT**. Client Characteristics that Influence Recovery in California's Comprehensive Community Mental Health Programs. *American Journal of Public Health*. 2013, 103(10): e89-95.
31. **Brown TT**. A Monetary Valuation of Individual Religious Behavior: The Case of Prayer. *Applied Economics* 2013, 45(15), 2031-2037.

30. **Brown TT**, Chung JJ, Choi S, Scheffler RM, Adams N. The Impact of California's Full Service Partnership Program on Mental Health Related Emergency Department Visits. *Psychiatric Services* 2012, 63(8), 802-807.
29. Bruckner TA, Kim Y, Chakravarthy B, **Brown TT**. Voluntary Psychiatric Emergencies in Los Angeles County after California's Mental Health Services Act. *Psychiatric Services* 2012, 63(8), 808-814.
28. **Brown TT**, Pourat N, Glassman P, Chung J, Nicholson G, Hong J. Access to Dental Care and the Capacity of the California Dental Care System. *Journal of the California Dental Association* 2012, 40(3): 251-258.
27. **Brown TT**, Hong J. The Impact of Additional Dental Providers in the Dental Labor Market on the Income of Private Practice Dentists. *Journal of the California Dental Association* 2012, 40(3): 239-249.
26. Ronconi L, **Brown TT**, Scheffler RM. Social Capital and Self-Rated Health in Argentina. *Health Economics* 2012, 21(2): 201-208.
25. Yoon J, **Brown TT**. Does the Promotion of Community-Level Social Capital Reduce Obesity Risk? *Journal of Socio-Economics* 2011, 40(3): 296-305.
24. **Brown TT**, *dela Cruz E, Brown SS. The Effect of Dental Care on Cardiovascular Disease Outcomes: An Application of Instrumental Variables in the Presence of Heterogeneity and Self-Selection. *Health Economics* 2011, 20(10): 1241-1256.
23. Bruckner TA, Yoon J, **Brown TT**, Adams N. Involuntary Civil Commitments after the Implementation of California's Mental Health Services Act. *Psychiatric Services* 2010, 61(10):1006-11.
22. Bruckner TA, Snowden L, *Subbaraman M, **Brown TT**. Economic Antecedents of Medicaid-financed Mental Health Services among Youths in California. *International Journal of Mental Health* 2010, 39(2):75-91.
21. Felton M, Cashin C, **Brown TT**. What Does It Take? California County Funding Requests for Recovery-Oriented Full Service Partnerships Under the Mental Health Services Act. *Community Mental Health Journal* 2010, 46(5): 441-451.
20. **Brown TT**, Mahoney C, Adams N, Felton M, Pareja C. What Predicts Recovery Orientation in County Departments of Mental Health? A Pilot Study. *Administration and Policy in Mental Health and Mental Health Services Research* 2010, 37(5): 388-398.
19. Miller L, **Brown TT**, Pilon D, Scheffler RM, Davis M. Patterns of Recovery from Severe Mental Illness: A Pilot Study of Outcomes. *Community Mental Health Journal* 2010. 46(2):177-187.

18. Stone S, **Brown TT**, Hinshaw S. ADHD-Related School Compositional Effects: An Exploration. *Teachers College Record* 2010, 112(5):1275-1299.
17. **Brown TT**, *Goryakin Y, Finlayson TL. The Effect of Functional Limitations on the Demand for Dental Care Among Adults 65 and Older. *Journal of the California Dental Association* 2009, 37(8):549-558.
16. **Brown TT**, Fulton B, Finlayson TL, *Jahedi S. The Demand for Dental Care and Financial Barriers in Accessing Care among Adults in California. *Journal of the California Dental Association* 2009, 37(8):539-547.
15. **Brown TT**, *Goryakin Y. The Oral Health Status of Adults 65 and Older in California: 1995-2006. *Journal of the California Dental Association* 2009, 37(8):571-578.
14. Finlayson TL, **Brown TT**, Fulton B, *Jahedi S. Adult oral health status in California, 1995-2006: Prevalence of tooth loss due to disease. *Journal of the California Dental Association* 2009, 37(8):561-570.
13. Fulton BD, Scheffler RM, Hinshaw SP, Levine P, Stone S, **Brown TT**, *Modrek S. National variation of ADHD diagnostic prevalence and medication use: health care providers and education policies. *Psychiatric Services* 2009, 60:1075-1083.
12. **Brown TT**, *Liu, JX, Scheffler RM. Does the Under- or Overrepresentation of Minority Physicians across Geographical Areas Affect the Location Decisions of Minority Physicians? *Health Services Research* 2009, 44(4):1290-1308.
11. Scheffler RM, **Brown TT**, Fulton B, Hinshaw S, Stone S, Levine P. Positive Association Between Attention-Deficit/Hyperactivity Disorder Medication Use and Academic Achievement During Elementary School. *Pediatrics* 2009, 123(5):1-7.
10. **Brown TT**. Rational Praying: The Economics of Prayer. *Journal of Socio-Economics* 2009, 38: 37-44.
9. Scheffler RM, **Brown TT**. Social Capital, Economics, and Health: New Evidence. *Health Economics, Policy and Law* 2008, 3:321-331.
8. Scheffler RM, **Brown TT**, Syme L, Kawachi I, Tolstykh I, Iribarren C. Community-Level Social Capital and Recurrence of Acute Coronary Syndrome. *Social Science and Medicine* 2008, 66(7):1603-1613.
7. Schneider JE, Li P, Klepser DG, *Peterson NA, **Brown TT**, Scheffler RM. The Effect of Physician and Health Plan Market Concentration on Prices in Commercial Health Insurance Markets, *International Journal of Health Finance and Economics* 2008, 8(1):13-26.

6. Scheffler RM, **Brown TT**, *Rice J. The Role of Social Capital in Reducing Non-Specific Psychological Distress: The Importance of Controlling for Omitted Variable Bias. *Social Science and Medicine* 2007, 65(4):842-854.
5. **Brown TT**, Finlayson TL, Scheffler RM. How Do We Measure Shortages of Dental Hygienists and Dental Assistants? Evidence from California: 1997-2005. *Journal of the American Dental Association* 2007, 138:94-100.
4. **Brown TT**, Scheffler RM, *Tom S, Schulman K. Does the Market Value Racial and Ethnic Concordance in Physician–Patient Relationships? *Health Services Research* 2007, 42(2):706-726.
3. **Brown TT**, Scheffler RM, *Seo S, *Reed M. The Empirical Relationship between Community Social Capital and the Demand for Cigarettes. *Health Economics* 2006, 15(11):1159-1172.
2. **Brown TT**, *Coffman JM, *Quinn B, Scheffler RM, *Schwalm D. Do Physicians Always Flee from HMOs? New Results Using Dynamic Panel Estimation Methods. *Health Services Research* 2006, 41(2):357-73.
1. Iribarren C, Tolstykh I, Somkin C, Ackerson LM, **Brown TT**, Scheffler R, Syme L, Kawachi I. Sex and Racial/Ethnic Disparities in Outcomes after Acute Myocardial Infarction: A Cohort Study among Members of a Large Integrated Health Care Delivery System in Northern California. *Archives of Internal Medicine* 2005, 165(18):2105-13.

REPORTS AND NON-REFEREED ARTICLES

20. **Brown TT**. Book Review: Candy Gunther Brown. *Testing Prayer: Science and Healing*. (Cambridge: Harvard University Press, 2012). *Canadian Journal of Pentecostal-Charismatic Christianity* 2012, 3(1): 140-143.
19. **Brown TT**. Reducing Women’s Risk of Heart Disease. *Inside Dentistry* 2011, 7(9): 1-2.
18. **Brown TT**, Choi S, Chung JJ. The Impact of Additional Private Practice Dentists and Hypothetical Allied Dental Professionals on the Earnings per Hour of Private Practice Dentists. Petris Report to the California Dental Association. University of California, Berkeley. April, 2011.
17. **Brown TT**, Chung JJ, Choi S. Analysis of Changes in Access to Care and the Probability of Entering a Nursing Home among Recipients of In-Home Supportive Services. Petris Report to the California Department of Social Services. University of California, Berkeley. February 2011.
16. **Brown TT**, Chung JJ, Choi S. Analysis of the Association between Changes in the Wages of IHSS Providers and Access to Care for IHSS Recipients. Petris Report to the California Department of Social Services. University of California, Berkeley. February 2011.

15. **Brown TT**, Chung JJ, Choi S, Pourat N, Nicholson G, Glassman P. The Capacity of the Dental Care System in California. Petris Report to the California Dental Association. University of California, Berkeley. May, 2010.
14. Scheffler RM, Felton MC. **Brown TT**, Chung JJ, Choi S. Evidence on the Effectiveness of Full Service Partnership Programs in California's Public Mental Health System. Petris Report to the California Department of Mental Health. University of California, Berkeley, May, 2010.
13. **Brown TT**, Choi S, Chung JJ, Felton MC, Scheffler RM. An Evaluation of the Full Service Partnership Program in the Public Mental Health System in California. Petris Report # 2010-1 to the California Department of Mental Health. A Comparison of Satisfaction, Services Characteristics and Outcomes in the Full Service Partnership Programs Relative to Usual Care. University of California, Berkeley, May, 2010.
12. Miller LS, Chung JJ, **Brown TT**, Felton MC, Choi S, Scheffler RM. An Evaluation of the Full Service Partnership Program in the Public Mental Health System in California. Petris Report # 2010-2 to the California Department of Mental Health. An Analysis of Transitions across and Stays within Residency Settings for Full Service Partnership Clients. University of California, Berkeley, May, 2010.
11. Yoon J, Chung JJ, **Brown TT**, Felton MC, Choi S, Scheffler RM. An Evaluation of the Full Service Partnership Program in the Public Mental Health System in California. Petris Report # 2010-3 to the California Department of Mental Health. The Impact of the Full Service Partnership Programs on Independent Living: A Markov Analysis of Residential Transitions. University of California, Berkeley, May, 2010.
10. **Brown TT**, Chung JJ, Choi S, Bruckner TA, Felton MC, Scheffler RM. An Evaluation of the Full Service Partnership Program in the Public Mental Health System in California. Petris Report # 2010-4 to the California Department of Mental Health. The Impact of the Mental Health Services Act on Emergency Interventions and Involuntary Hospitalizations. University of California, Berkeley, May, 2010.
9. Auh E, Ganesh C, **Brown TT**, Choi S, Felton MC, Scheffler RM. An Evaluation of the Full Service Partnership Program in the Public Mental Health System in California. Petris Report # 2010-5 to the California Department of Mental Health. The Employment of Consumers with Serious Mental Illness. University of California, Berkeley, May, 2010.
8. **Brown TT**, Felton MC, Choi S, Chung JJ, Scheffler RM. An Evaluation of the Full Service Partnership Program in the Public Mental Health System in California. Petris Report # 2010-6 to the California Department of Mental Health. An Analysis of Characteristics Associated with Choosing Education as a Recovery Goal and Beginning an Educational Program in Full Service Partnerships. University of California, Berkeley, May, 2010.
7. Borgonovi F, **Brown TT**. The Relationship between Social Capital, Human Capital and Health. In *Social Capital, Human Capital, and Health. What is the Evidence?* OECD and Centre for Educational Research and Innovation, 2010.

6. **Brown TT**. Oral Health and the Demand for Dental Care. *Journal of the California Dental Association* 2009, 37(8):537-538. (Not refereed article – introduction to set of refereed articles)

5. Finlayson TL, Adams N, Rice J, Felton M, **Brown TT**, Scheffler R. California on the Eve of Mental Health Reform: Baseline report on county mental health departments' structure, financing and expenditures, fiscal year 2003-04: One year prior to the Mental Health Services Act. Petris Center Report, University of California, Berkeley, November 2007.

4. **Brown TT**, Finlayson TL, Scheffler RM. An Economic Analysis of the Labor Market for Dental Hygienists and Dental Assistants in California: 1997 – 2005. California Dental Association, Nicholas C. Petris Center on Health Care Markets and Consumer Welfare Report Series, November, 2005.

3. Felton M, Hailer L, **Brown TT**, Scheffler RM. Uninsured Californians and Access to Prescription Drugs. Nicholas C. Petris Center on Health Care Markets and Consumer Welfare Report Series, September, 2005.

2. Eisenberg D, Bellows N, **Brown TT**, Scheffler RM. Measuring Mental Health in California's Counties: What Can We Learn? Nicholas C. Petris Center on Health Care Markets and Consumer Welfare Report Series, January, 2005.

1. Coffman JM, Quinn B, **Brown TT**, Scheffler RM. Is There a Doctor in the House? An Examination of the Physician Workforce in California over the Past 25 Years. Nicholas C. Petris Center on Health Care Markets and Consumer Welfare Report Series, June, 2004.

UNPUBLISHED MANUSCRIPTS

Under Review

11. Aouad M, **Brown TT**, Whaley C. Understanding the Distributional Impacts of Health Insurance Reforms: Evidence from a Consumer-Cost Sharing Program.

10. Aouad M, **Brown TT**, Whaley C. Reference Pricing: The Case of Screening Colonoscopies.

9. **Brown TT**, Lee WJ. Predicting the Risk of Developing Chronic Pain 7-10 Years into the Future: A Validated Questionnaire.

Working Papers

8. **Brown TT**, Bates NR, Beck KM, Connolly CM, Westfall MN, Yu Y. The Development of Chronic Pain: A Health Production Function Approach.

7. **Brown TT**, Wong GM. Worse Than Death? The Subjective Well-Being Valuation Method Applied to Chronic Pain.

6. **Brown TT**, Guo C, Lane MA, Adams N, Diamantopoulos AP. Medical Expenditures in the US for Bodily Pain Due to Psychological Distress.
5. **Brown TT**, Chung J, Hong J. Do Increases in the Relative Wages of In-Home Supportive Service (IHSS) Providers Reduce Nursing Home Admissions for IHSS Recipients?
4. **Brown TT**, Wong G. The Long Sleep and Poor Health Conundrum: Applying a New Statistical Approach to Obtain Causal Estimates.
3. **Brown TT**, Colla CH, Scheffler RM. Does Community-Level Social Capital Causally Affect Smoking Behavior? An Instrumental Variables Approach.
2. **Brown TT**. The Economics of Religious Altruism: The Role of Religious Experience.
1. **Brown TT**. Rational Praying: A Note on the Causal Effect of Prayer on Religious/Spiritual Health.

PRESENTATIONS

Discrimination Hurts: The Effect of Discrimination on the Development of Chronic Pain. 2018 Annual Meeting and Exposition, American Public Health Association, San Diego, November 12, 2018.

Predicting Onset of Chronic Pain 7-10 Years into the Future: A Validated Questionnaire. AcademyHealth Annual Research Meeting, Seattle, Washington, June 25, 2018.

The Causal Effect of Psychological Distress in the Development of Chronic Pain. AcademyHealth Annual Research Meeting, Seattle, Washington, June 25, 2018.

Reference Pricing: The Case of Screening Colonoscopies. 7th Annual Conference of the American Society of Health Economists, Atlanta, Georgia, June 12, 2018.

Understanding the Distributional Impacts of Health Insurance Reforms: Evidence from a Consumer-Cost Sharing Program. 7th Annual Conference of the American Society of Health Economists, Atlanta, Georgia, June 11, 2018.

The Moral Hazard Effects of Consumer Responses to Targeted Cost-Sharing. Annual Health Econometrics Workshop, St. Louis, Missouri, September 29, 2017.

The Large Returns to Investment in Public Health. AcademyHealth Annual Research Meeting, Boston, Massachusetts, June 25, 2016.

If You Build It, Will They Come? Predicting Consumer Responses to Insurance Benefit Designs. 6th Biennial Conference of the American Society of Health Economists, Philadelphia, Pennsylvania, June 14, 2016.

The Moral Hazard Effects of Consumer Responses to Targeted Cost-Sharing. 6th Biennial Conference of the American Society of Health Economists, Philadelphia, Pennsylvania, June 14, 2016.

Consumer Responses to Reference Pricing for Laboratory Services. 6th Biennial Conference of the American Society of Health Economists, Philadelphia, Pennsylvania, June 14, 2016.

Returns on Investment in California County Departments of Public Health. County Health Executives Association of California General Membership Meeting. Sacramento, California. August 4, 2016. **(Invited Lecture)**

Reference-Based Payment for Colonoscopy: Association with Consumer Choices, Insurer Spending, and Procedural Complications. AHRQ 2015 Research Conference. Arlington, Virginia, October 6, 2015. **Director's Award Recipient**

Reference-Based Benefits for Preventive Screening: Association with Consumer Choices, Insurer Payments, and Surgical Complications. AcademyHealth Annual Research Meeting, Minneapolis, Minnesota, June 16, 2015.

County Health Departments Improve Health Status and Prevent Death. Webinar: Children's Health in California: How Can State Policies Help Promote a Lifetime of Health and Well-Being? California Budget & Policy Center. June 3, 2015. **(Invited Lecture)**.

How effective are public health departments at preventing mortality? 10th Annual Public Health Finance Roundtable. New Orleans, Louisiana, November 16, 2014. **(Invited Lecture)**.

How Effective Are Public Health Departments at Preventing Mortality? Evidence from California County Departments of Public Health. AcademyHealth Annual Research Meeting, San Diego, California, June 8, 2014. **PHSR Article of the Year. (Invited Lecture)**.

How Long Does It Take for Public Health Spending to Affect Mortality Rates? Evidence from California County Departments of Public Health. AcademyHealth Annual Research Meeting, Orlando, Florida, June 26, 2012.

How Long Does It Take for Public Health Spending to Affect Mortality Rates? Evidence from California County Departments of Public Health. Public Health Services and Systems Research, Keeneland Conference, Lexington, Kentucky, April, 2012.

Rational Praying: A Note on the Causal Effect of Prayer on Religious/Spiritual Health. 2011 Annual Meeting of the Association for the Study of Religion, Economics & Culture. Arlington, Virginia, April 9, 2011.

The Effect of Dental Care on Cardiovascular Disease Outcomes: An Application of Instrumental Variables in the Presence of Heterogeneity and Self-Selection. Dental Public Health Seminar Series. University of California, San Francisco, January 11, 2011. **(Invited Lecture)**

The Impact of California's Mental Health Services Act on Emergency Room Use: Preliminary Results. 15th Biennial Research Conference on the Economics of Mental Health: Comparative Effectiveness and Mental Health Care Financing, Washington, DC, September 27-28, 2010.

Research Design. HRH Labor Markets Course: Analyze and Plan Human Resources for Health Global Health Workforce Economics Network, University of California, Berkeley. August 10, 2010.

Comparison of Outcomes between Consumers in Full-Service Partnership Programs and Usual Care in the California Public Mental Health System. Mental Health. Mental Health Services Oversight and Accountability Commission, Sacramento, California, June 24, 2010. **(Invited Lecture)**

Comparison of Outcomes between Consumers in Full-Service Partnership Programs and Usual Care in the California Public Mental Health System. California Coalition for Mental Health, Sacramento, California, May 25, 2010. **(Invited Lecture)**

Comparison of Outcomes between Consumers in Full-Service Partnership Programs and Usual Care in the California Public Mental Health System. Partnership for Mental Health, Los Angeles County Department of Mental Health and UCLA Center for the Study of Public Mental Health. Los Angeles, California, May 21, 2010. **(Invited Lecture)**

The Effect of Dental Care on Cardiovascular Disease Outcomes. Dental Economics Advisory Group. American Dental Association. Chicago, Illinois, May 13, 2010. **(Invited Lecture)**

Using Econometric Analysis when Long-Term Randomized Trials Are Unethical: The Case of Dental Care & Cardiovascular Disease Events in Women. Poster. AcademyHealth 2009 Annual Research Meeting, San Diego, California, June 29, 2009.

Social Capital and Health: Potential Applications to HIV/AIDS Research. 50 Beale HIV/AIDS Town Hall. Center for AIDS Prevention Studies. University of California, San Francisco. May 15, 2009. **(Invited Lecture)**

Rational Praying: The Economics of Prayer. Association for the Study of Religion, Economics, and Culture, Eighth Annual Conference, Arlington, Virginia, April 3, 2009.

Community Social Capital, Health Behaviors, and Health Outcomes. Noon Health Policy Seminar Series. Philip R. Lee Institute for Health Policy Studies and Institute for Health & Aging, University of California, San Francisco. November 12, 2008. **(Invited Lecture)**

Improving Access to Care for California's Adult Immigrants and Their Children: Empirical Analyses, Policy Simulations, and Recommendations. Responding to California's Dental Health Care Crisis. The California Program on Access to Care (CPAC) and the Dental Health Foundation. State Capital, Sacramento, California, June 26, 2008.

A Pilot Study of Recovery at the Village: An Estimate of Potential Outcomes from California's Mental Health Services Act. 2008 Petris Symposium: California Health Care Reform - Progress and Prognosis, University of California at Berkeley, April 18, 2008.

Community Social Capital and Smoking Cessation in California. School of Public Health Spring 2008 Research Symposium, University of California at Berkeley, February 28, 2008.

A Multilevel Model of Social Capital and Mental Health. The Nineteenth NIMH Research Conference on Mental Health Services, Washington D.C., July 24, 2007.

What Do We Know About the Progress of Proposition 63? 2007 Petris Symposium: Implementing Health Reforms in California, University of California at Berkeley, May 4, 2007.

Association and Effect of ADHD Medication on Children's Cognitive Development. The ICMPE Eighth Workshop on Costs and Assessment in Psychiatry: Investing in Mental Health Policy and Economics Research, Venice, Italy. March 9-11, 2007.

Religious Social Capital and the Demand for Religious Activity: An Application of the Grossman Model. International Social Capital Network Workshop, University of California at Berkeley, October 27-28, 2006.

Community Social Capital and Smoking Cessation. Poster. American Society of Health Economists, Madison, Wisconsin, August 4, 2006.

Community Social Capital and Smoking Cessation, Sixth European Conference on Health Economics, Budapest, Hungary, July 8, 2006.

The Role of Community Social Capital in Reducing the Prevalence of Serious Mental Illness. Sixth European Conference on Health Economics, Budapest, Hungary, July 8, 2006.

The Impact of the Mental Health Services Act on California's Mental Health System. Panelist. 2006 Petris Symposium: Toward a Health Policy Agenda for All Californians, University of California at Berkeley, April 21, 2006.

Social Capital and Health. Pre-conference Session. Fifth World Congress of the International Health Economics Association, Barcelona, Spain, July 9, 2005.

Theory and Practice of Evaluating the Cost-Effectiveness of Evidence-Based Medicine: Medication Algorithms for Schizophrenia in California. The ICMPE Seventh Workshop on Costs and Assessment in Psychiatry: Financing Mental and Addictive Disorders, Venice, Italy. March 18-20, 2005.

Using CHIS Data: Mental Health Applications. California Health Interview Survey (CHIS): Workshop on Accessing Data from the 2003 and 2001 Surveys, University of California, Berkeley, February 11, 2005. **(Invited Lecture)**

An Agenda for Change: The Economics of NPs in Health Care. California Association of Nurse Practitioners Business and Technology Conference, Irvine, California, October 2, 2004.

Community Social Capital, Individual Social Capital and Obesity. AcademyHealth 2004 Annual Research Meeting, San Diego, California, June 6, 2004.

The Demand for Child Behavioral Health. 131st Annual Meeting and Exposition, American Public Health Association, San Francisco, California, November 18, 2003.

Social Capital, Social Ties, and Mental Health in the US (revised version). 131st Annual Meeting and Exposition, American Public Health Association, San Francisco, California, November 18, 2003.

Individual Social Capital, Community Social Capital and Mental Health in the US. Fifth International Conference on the Scientific Basis of Health Services, Washington, DC, September 22, 2003.

Social Capital, Social Ties, and Mental Health in the US. Session on Social Capital and Health. Fourth World Congress of the International Health Economics Association, San Francisco, California, June 16, 2003.

RESEARCH SUPPORT

Variation in Provider Cost and Quality: Implications for Insurance Network and Benefit Design. California Public Employees' Retirement System. California Public Employees' Retirement System 2016-2018. Co-Investigator

Impact of Reference Pricing on Drug Choice, Consumer Cost Sharing, and Employer Spending plan. Genentech Foundation. 2016-2017. Co-Investigator.

The Effect of Reference Based Benefits on State Healthcare Expenditures. \$127,545. Laura and John Arnold Foundation. 2015-2016. Principal Investigator.

1 R01 HS022098-01 A1 The Impact of Reference Pricing on High Cost Medical Procedures. \$1,135,476. Agency for Healthcare Research and Quality. 2014-2019. Principal Investigator.

Examining the impact of reference pricing on consumer choice of and provider pricing for laboratory tests and diagnostic imaging. Health Care Financing & Organization. Robert Wood Johnson Foundation. 2014-2015. \$226,419. Co-Principal Investigator

Evaluation of the Impact of the CalPERS Reference Pricing Benefit Design on Use and Expenditures for Hip and Knee Replacement Surgery - Expanded to Arthroscopic Surgery, Cataract Surgery and Colonoscopy. \$325,000. California Public Employees' Retirement System. 2012-2015. Health Economist.

Hospital Economic Performance in Device Intensive Service Lines. \$263,398. Institute for Health Technology Studies. 2011-2013. Health Economist.

Return on Investment for Public Health Expenditures: A Societal Perspective with Local Applications. \$193,810. Public Health Services and Systems Research. Robert Wood Johnson Foundation. 2010-2012. Principal Investigator.

Analyzing Decreasing the State's Participation in Wages and Benefits for IHSS Provider. \$300,000. California Department of Social Services. 2010. Principal Investigator.

Support for Consult, Design, Development, Implementation, Support, and Evaluation of a Mental Health Project. \$20,851. California Department of Mental Health. 2009-2010. Principal Investigator.

Evaluation of the Impact of Proposed Workforce Models on Dental Income. \$215,000. California Dental Association. 2009-2010. Principal Investigator.

Service Capacity and Efficiency of California Dental Delivery. \$100,000. California Dental Association. 2009. Principal Investigator.

Support of Consult, Design, Development, Implementation, Support, and Evaluation of a Mental Health Project. \$20,851. Booz-Allen and Hamilton. 2009-2010. Principal Investigator.

Evaluation of the Mental Health Services Act. \$1,000,000. California Department of Mental Health. 2008-2009. Project Manager and Health Economist

Forecasting for the Early and Periodic Screening Diagnosis and Treatment Program. \$70,000, California Department of Mental Health, 2008. Principal Investigator.

Evaluation of Forecasting Methods for the Early and Periodic Screening Diagnosis and Treatment Used the California Department of Mental Health. \$54,500. California Department of Mental Health, 2008. Principal Investigator.

Oral Health and Access to Care in California among the Elderly. \$160,000. California Dental Association. 2007-2008. Principal Investigator.

Improving Access to Care for Adult Immigrants in California and their Children: Empirical Analyses, Policy Simulations, and Recommendations. California. \$51,033. Program on Access to Care, 2007. Principal Investigator.

Oral Health and Access to Care in California. \$150,023. California Dental Association. 2006 – 2007. Project Manager and Health Economist.

The Impact of Proposition 63 on the Financing the Delivery of Mental Health Programs in California. \$1,057,000. California HealthCare Foundation. 2005-2007. Project Manager and Health Economist.

Applying Policies to Improve Medical Care for Underserved Minority Populations in California: A Study of the Migration Patterns of African-American and Hispanic Physicians. \$41,847. California Program on Access to Care. 2005. Project Manager and Health Economist.

Defining the California Population: Who Needs Assistance Regarding Access to, or Affordability of Prescription Drugs. Pharmaceutical and Research Manufacturers Association Foundation, \$30,000, 2005. Project Manager.

Effects of Social Capital on Smoking: Elasticity & Pathways. Tobacco-Related Disease Research Program. \$99,354. 2005-2007. Project Manager and Health Economist.

An Economic and Policy Analysis of ADHD and Psychostimulant Drugs. National Institute of Mental Health. \$862,385. 2004-2007. Project Manager and Health Economist.

An Analysis of the Economic Impact of Diversification. Kellogg Foundation, subcontract with Duke University. \$55,000. 2003-2004. Project Manager and Health Economist.

Social Capital and Cardiovascular Disease in California. Centers for Disease Control. \$300,000. 2002-2004. Project Manager and Health Economist.

AWARDS AND FELLOWSHIPS

American Journal of Public Health (AJPH) 2016 Editor's Choice Award for Best Paper of the Year: "Returns to Investment in California County Departments of Public Health." *American Journal of Public Health*. 2016 Aug 106(8): 1477-1482.

Director's Award Recipient, Agency for Healthcare Research and Quality, 2015, Research Conference. Arlington, Virginia, October 6, 2015 for "Reference-Based Payment for Colonoscopy: Association with Consumer Choices, Insurer Spending, and Procedural Complications."

AcademyHealth 2014 PHSR (Public Health Services Research) Article of the Year for "How Effective Are Public Health Departments at Preventing Mortality?" *Economics & Human Biology* 2014, 13: 34-45. Online First 2013.

School of Public Health Award for Teaching Excellence Spring 2014, Spring 2015

Recognition and Reward Award, August 2003, School of Public Health, University of California at Berkeley.

Agency for Healthcare Research and Quality. Pre-doctoral Trainee, University of California at Berkeley, 1997-1998.

Fellowship Grant, University of California at Berkeley, 1994-1995.

Kaiser Fellowship, University of California at Berkeley, 1993-1994.

Charles Fisch Scholarship, University of California at Berkeley. 1993-1994.

JOURNAL REFEREEING

American Journal of Orthopsychiatry (1 paper in 2016)
American Journal of Managed Care (1 paper in 2017; 1 paper in 2018)
American Journal of Public Health (1 paper in 2004, 1 paper in 2015)
Applied Economics (1 paper in 2014)
Applied Economics Letters (1 paper in 2014)
BMC Health Services Research (1 paper in 2016)
Community Mental Health Journal (1 paper in 2010, 1 paper in 2011)
Contemporary Economic Policy (1 paper in 2018)
Economics and Human Biology (1 paper in 2015, 1 paper in 2018).
European Journal of Health Economics (1 paper in 2018)
Health Affairs (1 paper in 2017).
Health Economics (2 papers in 2006, 1 paper in 2011; 3 papers in 2012, 2 papers in 2013, 2 papers in 2014, 1 paper in 2015)
Health Policy (1 paper in 2012)
Health Services Research (1 paper in 2007, 1 paper in 2008, 1 paper in 2013; 2 papers in 2016)
International Psychogeriatrics (1 paper in 2013)
Inquiry (1 paper in 2015)
Israel Journal of Health Policy Research (1 paper in 2014).
JAMA Psychiatry (1 paper in 2013)
Journal of the American Dental Association (1 paper in 2006, 1 paper in 2010)
Journal of Dental Education (2 papers in 2012)
Journal of Health Economics (1 paper in 2008, 1 paper in 2009, 1 paper in 2012, 1 in 2013, 1 in 2017)
Journal of Mental Health Policy and Economics (1 paper in 2007, 1 paper in 2009, 1 paper in 2012, 1 paper in 2015, 1 paper in 2017)
Journal for the Scientific Study of Religion (1 paper in 2012)
Journal of Pain Research (1 paper in 2018)
Review of Economics of the Household (1 paper in 2013)
Social Science & Medicine (1 paper in 2006, 1 paper in 2007, 1 paper in 2010, 1 paper in 2011, 1 paper in 2012, 1 paper in 2017)
Pediatrics (1 paper in 2009)
PLOS ONE (1 paper in 2015).
Psychiatric Services (1 paper in 2015)

MEMBERSHIPS

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