

# SUSAN M. PADDOCK, Ph.D.

Curriculum Vitae

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## PRIMARY PROFESSIONAL POSITIONS

2007–present Senior Statistician, RAND Corporation, Santa Monica CA

2008–2013 Head, Statistics Group, RAND Corporation, Santa Monica CA

2004–2007 Statistician, RAND Corporation, Santa Monica CA

1999–2003 Associate Statistician, RAND Corporation, Santa Monica CA

## ACADEMIC APPOINTMENTS

2014–present Professor of Policy Analysis, Pardee RAND Graduate School, Santa Monica, CA

2006–2011 Professor of Policy Analysis, Pardee RAND Graduate School, Santa Monica, CA

## OTHER PROFESSIONAL POSITIONS

1996–1999 Research Assistant, ISDS (now Department of Statistical Science), Duke University, Durham, NC

1998 Summer Intern, AT&T Laboratories, Florham Park NJ

1997 summer Research Assistant, National Institute of Statistical Sciences, RTP, NC

1996 summer Summer Intern, Chemoinformatics Group, Glaxo Wellcome, RTP, NC

1994–1995 Actuarial Intern, EW Blanch Company, Bloomington MN

## EDUCATION

Ph.D. Statistics, Duke University, 1999

M.S. Statistics, Duke University, 1997

B.A. *summa cum laude* Mathematics & Biostatistics, University of Minnesota, 1994

## HONORS AND AWARDS

2016 Gold Medal Award for helping to inform a significant policy shift in the formulation of the Centers for Medicare and Medicaid Services Star Ratings program, RAND Corporation, with M. Elliott and M. Sorbero

2015 *Health Affairs'* Ten Most-Read Articles of 2015, "Trends in Health Insurance Enrollment, 2013-2015," with K. Carman and C. Eibner

2013 Mid-Career Award, Health Policy Statistics Section, American Statistical Association

2013 Fellow, American Statistical Association

2012 Bronze Medal Award for developing statistical methods to enhance the reliability and validity of health care provider performance ratings, with M. Elliott, RAND Corporation

1995-1999 Graduate Fellowship and Scholarship, Duke University

1994 Phi Beta Kappa, University of Minnesota

**EDITORIAL APPOINTMENTS**

- 2016 Guest Editor, *Health Services and Outcomes Research Methodology*, Special Issue: Papers from the 11<sup>th</sup> International Conference on Health Policy Statistics
- 2010-2013 Area Editor for Social Sciences, Government, Sample Surveys, and Economics, *Annals of Applied Statistics*
- 2009-2011 Associate Editor, *Journal of the American Statistical Association – Applications & Case Studies*
- 2007-2010 Associate Editor, *Annals of Applied Statistics*
- 2004-2008 Statistical Reviewer (Editorial Board position), *Medical Care*
- 2001-2003 Corresponding Editor, *International Society for Bayesian Analysis Newsletter*

**POSITIONS IN THE AMERICAN STATISTICAL ASSOCIATION (ASA)**

- 2018 Chair-Elect, Section on Bayesian Statistical Sciences (Elected)
- 2017 Health Policy Statistics Section 2018 Career Awards Committee, member
- 2017 Past Chair, Health Policy Statistics Section (Elected)
- 2016 JASA Reviews Editor Search Committee, member
- 2016 Chair, Health Policy Statistics Section (Elected)
- 2016 Elections Committee, Southern California ASA Chapter
- 2015 Chair-Elect, Health Policy Statistics Section (Elected)  
Chair, Health Policy Statistics Section 2015 Career Awards Committee
- 2013-2015 Council of Sections Representative, Section on Bayesian Statistical Science (Elected)
- 2012 Reviewer of the Centers for Medicare and Medicaid Services (CMS)-COPSS White Paper, *Statistical issues in assessing hospital performance*
- 2010 Program Chair, Health Policy Statistics Section, JSM, Vancouver, BC (Elected)
- 2010-2015 Committee on Career Development
- 2009 Program Chair-Elect, Health Policy in Statistics Section, JSM, Washington, DC (Elected)
- 2008-2016 ASA Media Expert
- 2007-2008 ASA Southern California Chapter, Annual Statistics Workshop Organizing Committee
- 2004-2008 Committee on Law and Justice Statistics
- 2004-2005 Secretary/Treasurer, Section on Bayesian Statistical Science (Elected)

**ADVISORY POSITIONS**

- 2016-present Measurably Better (Meetbaar Beter) Foundation (Netherlands) International Academic Advisory Council, Member
- 2014-2017 Institute of Medicine Committee to Evaluate the Department of Veterans Affairs' Mental Health Services, Member
- 2014-present RAND American Life Panel Advisory Board, Member

**ORGANIZING ROLES AT SCIENTIFIC MEETINGS**

- 2017 Organizer of an invited session, "Adjustment for social risk factors in healthcare provider performance assessment," Joint Statistical Meetings, Baltimore, MD
- 2015 Organizer of an invited panel, "Establishing a Process-Outcome Link for Quality Measures for the Treatment of Substance Use Disorders," Addiction Health Services Research Conference, Marina del Rey, CA

- 2015 Program Committee, 11th International Conference on Health Policy Statistics, Providence, RI  
 2014 Invited Session Organizer, *Annals of Applied Statistics* Discussion Paper, JSM, Boston, MA  
 2014 Program Committee, Women in Statistics Conference, Durham, NC  
 2013 Invited Session Organizer, *Annals of Applied Statistics* Discussion Paper, JSM, Montreal, QC  
 2013 Program Committee, 10th International Conference on Health Policy Statistics, Chicago, IL  
 2011 Program Committee, 9th International Conference on Health Policy Statistics, Cleveland, OH  
 2010 Program Committee, 8th International Conference on Health Policy Statistics, Washington, DC  
 2008 Program Committee, 7th International Conference on Health Policy Research, Philadelphia, PA  
 2007 Topic Contributed Session Organizer, "Bayesian Methods for Longitudinal or Survival Data with Missing Data," Joint Statistical Meetings, Salt Lake City  
 2006 Program Committee Member, Interface, Pasadena CA  
 2004 Topic Contributed Session Organizer and Discussant, "Advances and Applications in Causal Inference," Joint Statistical Meetings, Toronto, ON

### **REFEREEING SERVICE**

*Annals of Applied Statistics, Biometrics, Biometrika, BMJ Quality & Safety, Drug & Alcohol Dependence, Ethnicity and Disease, Health Policy, Health Services & Outcomes Research Methodology, Health Services Research, International Journal of Microsimulation, International Microsimulation Journal, Journal of the American Medical Association, Journal of the American Statistical Association, Journal of Computational and Graphical Statistics Journal of Drug Issues, Journal of the Royal Statistical Society Series B, Medical Care, Military Medicine, Psychometrika, Statistics and Policy, Statistics in Medicine, Survey Methodology*

### **GRANT REVIEW SERVICE**

- 2017 NIH Biostatistical Methods and Research Design (BMRD) study section (ad-hoc), June  
 2016 NIH Biostatistical Methods and Research Design (BMRD) study section (ad-hoc), October  
 2013 AHRQ HSR Health Care Research Training Study Section  
 2013 AHRQ Patient Centered Outcomes Research (PCOR) Institutional Mentored Career Development Program (K12) (RFA-HS-13-008)  
 2011 National Institutes of Health, Study Section panel, *Healthcare Delivery and Methodologies Member Conflict*  
 2007 Agency for Healthcare Research & Quality Review Panel of *Ambulatory Care Patient Safety Proactive Risk Assessment (HS-07-003)*  
 2006 Ad-hoc reviewer, National Institute of Mental Health (NIH/NIMH), RFA-MH-06-001: *Antidepressant Use and Suicidality*  
 2006 Ad-hoc reviewer, National Institute of Mental Health (NIH/NIMH), PA-06-154: *Collaborative R01s for Clinical and Services Studies of Mental Disorders and AIDS*  
 2004-2007 Reviewer of grants for the ASA/Bureau of Justice Statistics Small Grant Program

### **TEACHING EXPERIENCE**

- 2017 Pardee RAND Graduate School, Dissertation Committee Member for Fernando Hoces de la Guardia  
 2015 Independent study supervisor, 'Introduction to Bayesian Analysis,' PRGS

2014-2015	Guest Lecturer, 'Careers in Statistics' undergraduate course, UCLA Statistics
2012,-13, -15	Mentored/supported three Statistics Ph.D. candidates as RAND Summer Associates
2012	Faculty, Center for Applied Statistics, UCLA (STAT296/SEM 15, Fall)
2011	Pardee RAND Graduate School, Dissertation Committee Member for Sarah Gaillot
2008	RAND Statistics Short Course Series, Instructor: <i>Introduction to Regression Diagnostics</i>
2007-2008	Pardee RAND Graduate School, Instructor: <i>Empirical Analysis II (Linear Regression)</i>
2003	RAND Statistics Short Course Series, Instructor: <i>Introduction to Bayesian Statistics</i>
1997	Duke University, Teaching Assistant: <i>Applied Regression Analysis</i>
1996	Duke University, Teaching Assistant: <i>Statistics for Public Policy Makers</i>
1995	Duke University, Teaching Assistant: <i>Introduction to Statistics</i>

### **OTHER PROFESSIONAL SERVICE**

Promotion/tenure letter writer (4) in 2010, 2013, 2014, 2017

ASA Fellows Nomination: Letter-writer (1) and nominator (1), 2016; nominator (1), 2017

### **SERVICE TO THE RAND CORPORATION**

2016-2017	Research Staff Advisory Council, RAND Health
Ongoing	Review of several RAND Reports
Ongoing	Mentor to M.S. and Ph.D. statisticians
Ongoing	Quality assurance review of proposals-in-progress
2003-2013	Statistics Recruiting Committee
2000-2002	Organizer, Statistics Seminar Series

### **COMMUNITY SERVICE**

2012	Workshop Presenter, Expanding Your Horizons Conference, Los Angeles, CA
2012	Hill & Dale Executive Search & Transition Committee
2010-2013	Board Member, Hill & Dale Family Learning Center, Santa Monica, CA
2005-2008	Executive Committee, Math/Science Interchange, Los Angeles Chapter
2005-2008	Organizing Committee, Expanding Your Horizons Conference, Los Angeles, CA Objective: Encourage girls to consider careers in science, math & technology

### **RESEARCH GRANT AND CONTRACT FUNDING**

National Institutes of Health (NIAAA). "Hierarchical Modeling of Alcohol Treatment Outcomes of Group Therapy." R01AA019663. 9/1/10-8/31/14; 7/13/16-8/31/19. Role: Principal Investigator

Centers for Medicare & Medicaid Services. "Analysis of Medicare Advantage and Part D Contract Star Ratings." Task Order No. GS-10F-0275P, HHSM-500-2016-00079G. 9/1/16-8/31/19. Role: co-PI (PI: C. Damberg)

Centers for Medicare & Medicaid Services. "Development and Maintenance of Post-Acute Care Cross-Setting Standardized Patient Assessment Data." HHSM-500-2013-13014I. 9/1/2015-9/24/2018. Role: Lead Statistician (PI: M. Edelen)

Centers for Medicare & Medicaid Services. "Analysis Related to Medicare Advantage and Part D Contract Star Ratings." HHSM-500-2013-000283G. 9/1/13-8/31/16. Role: co-PI (PI: C. Damberg)

Agency for Healthcare Research Quality. "Innovations in the Science of Public Reporting of Provider Performance." R21 HS021860. 9/1/2012-2/29/2016. Role: Principal Investigator

National Institutes of Health (NIDA). "Identifying Quality Indicators for Substance Use Disorder." R01DA033953. 9/1/2012-1/31/2017. Role: Investigator (PIs: T. Hudson, K. Watkins)

Centers for Medicare & Medicaid Services. "Analysis Related to Medicare Advantage Plan Ratings for Quality Bonus Payments." HHSM-500-2005-00028I. 4/14/11-9/29/13. Role: co-PI (PI: C. Damberg)

National Institutes of Health (NIDA). "Building System Capacity through Continuous Quality Improvement." R34DA032041. 5/15/12-4/30/15. Role: Statistician (PI: S. Hunter)

National Institutes of Health (NIAAA). "Validating Quality Measures for the Treatment of Alcohol Use Disorders." R01AA019440. 9/1/10-2/28/17. Role: Statistician (PI: K. Hepner)

National Institutes of Health (NIDA). "Enhancing Prevention Capacity with Developmental Assets and Getting to Outcomes." R01DA023277. 6/1/08-3/31/13. Role: Statistician (PI: M. Chinman)

Centers for Disease Control. "Getting to Outcomes and Underage Drinking." 5R18CE001335. 4/1/08-3/31/11. Role: Statistician (PI: M. Chinman)

Department of Veterans Affairs (Subcontract from Altarum to RAND Corporation). "Evaluation of Services for Seriously Mentally Ill Patients in the Veterans Health Administration." Contract ALTARUM-6-25-06; 6/14/06-11/30/10. Role: Statistician (PIs: H. Pincus & K. Watkins)

Agency for Healthcare Research and Quality (AHRQ). "Bayesian Pattern-Mixture Models for Quality of Care Data." R03HS014805. 9/30/05-9/29/08. Role: Principal Investigator

National Institutes of Health (NIDA). "Group CBT for Depression and AOD Disorders." R01DA02159. 9/20/06-5/31/10. Role: Statistician (PI: K. Watkins)

National Institutes of Health (NIAAA). "Group CBT for Depression in Clients with AOD Disorders." R01AA014699. 9/20/05-6/30/10. Role: Statistician (PI: K. Watkins)

Centers for Disease Control and Prevention. "Building Community Capacity to Conduct Effective Violence Prevention." R49-CE000572. 9/01/05-8/31/08. Role: Statistician (PI: M. Chinman)

Alaris Medical Systems, Inc. (now Cardinal Health). "Evaluating the Economic and Clinical Impact of MEDLEY Medication Smart IV Stem, with the Guardrail Safety Software." Contract 03-0122. 4/15/03-12/31/05. Role: Statistician (PI: A. Bower)

Centers for Medicare and Medicaid Services. "Inpatient Rehabilitation Facility Prospective Payment System Monitoring: Assess and Refinements." Contract 500-2004-00033C, 9/30/04-12/31/06. Roles: Statistician; co-PI from 5/29/06-12/31/06 (PI: M. Beeuwkes Buntin).

National Institutes of Health (NIA). "Life Cycle Effects of Health Insurance on Elderly Health." R01AG024451. 9/15/04-6/30/08. Role: Statistician (PI: D. Polsky)

National Institutes of Health (NIDDK). "Hierarchical Models in Health Services Research. National Institute of Diabetes and Digestive and Kidney Diseases." R01DK61662. 12/1/02-8/31/05; 8/1/07-7/30/10. Role: Co-investigator (PI: T.A. Louis)

Substance Abuse & Mental Health Services Administration. "Improving Care for Co-Occurring Mental Health Disorders." Contract KD1TI12545. 9/1/00-3/1/04. Role: Statistician (PI: K. Watkins)

## MEDIA

My research has been discussed in several media outlets; topics include autonomous vehicles, marijuana gateway theory, military and veterans' mental health, prediction, Star Ratings for Medicare health plans, and treatment for opioid use disorder. Interviews and commentaries listed below are limited to those I conducted.

### Interviews:

- ABC7 Los Angeles, July 13, 2016 (safety of self-driving cars)
- *Inverse.com* (<https://www.inverse.com/article/17946-how-much-autonomous-driving-data-is-enough>), July 7, 2016
- *The Guardian* (<https://www.theguardian.com/technology/2016/apr/26/uber-google-lyft-ford-volvo-self-driving-car-lobby>), April 26, 2016
- *The Wall Street Journal* (<http://online.wsj.com/article/SB124821547930269995.html>), July 22, 2009

### Commentary:

- Driving to Safety: Autonomous Vehicle Questions, Answered (with Nidhi Kalra) (<https://ritn.rand.org/article.asp?articleID=418007>), October 26, 2016

## SELECTED RESEARCH FEATURED IN CONGRESSIONAL TESTIMONY

- Kalra, N (November 2016). *Shaping the Future of Autonomous Vehicles: How Policymakers can Promote Safety, Mobility, and Efficiency in an Uncertain World*. Testimony presented before the U.S. Senate Appropriations Committee, Subcommittee on Transportation, Housing and Urban Development, and Related Agencies. RAND Publication CT-459
- Watkins KE (December 2011). *Suicide Prevention Efforts and Behavioral Health Treatment in the Veterans Health Administration*. U.S. House Veterans' Affairs Committee, Subcommittee on Health. RAND Publication CT-370
- Paddock, SM (March 2005). *School-Based Drug Prevention and Other Strategies to Reduce Drug Use*. Oregon State House and Senate Judiciary Committees. RAND Publication CT-237

## PUBLICATIONS

### Peer-Reviewed Journal Articles

1. Hoggatt KJ, Hepner KA, Bogart A, **Paddock SM** (to appear). Does documented brief intervention predict decreases in alcohol use in primary care? *Substance Use and Misuse*. PMID: pending
2. Timbie JW, Bogart A, Damberg CL, Elliott MN, Haas A, Gaillot S, Goldstein E, **Paddock SM** (to appear). Medicare Advantage and Fee-for-Service Performance on Clinical Quality and Patient Experience Measures: Comparisons from Three Large States. *Health Services Research*
3. Burgette LF, **Paddock SM** (2017). Bayesian models for semicontinuous outcomes in rolling admission therapy groups. *Psychological Methods*, 22(4), 725-742. NIHMSID NIHMS840867. PMID: PMC5744596

4. **Paddock SM**, Damberg CL, Yanagihara D, Adams JL, Burgette L, Escarce JJ (2017). What role does efficiency play in understanding the relationship between cost and quality in physician organizations, *Medical Care*. 55, 1039-1045. NIHMSID NIHMS905383. PMCID: PMC5690805
5. Kalra N, **Paddock SM** (2016) Driving to safety: How many miles of driving would it take to demonstrate autonomous vehicle reliability? *Transportation Research Part A: Policy and Practice*, 94, 182-193
6. Adams JL, **Paddock SM** (2016) Misclassification Risk of Tier-based Physician Quality Performance Systems. *Health Services Research*. NIHMSID NIHMS801505. PMCID: PMC5517673
7. Hepner KA, **Paddock SM**, Watkins KE, Ounpraseuth S, Schrader AM, Hudson TJ (2017). Association between quality measures and perceptions of care for patients with substance use disorders. *Psychological Services*. PMCID: in progress. PubMed PMID: 28669291. <https://doi.org/10.1176/appi.ps.201600484>
8. Watkins KE, **Paddock SM**, Hudson TJ, Ounpraseuth S, Schrader AM, Hepner KA, Sullivan G (2017). Association between quality measures and mortality in individuals with co-occurring mental health and substance use disorders. *Journal of Substance Abuse Treatment*. PMCID: PMC5004087.
9. Watkins KE, **Paddock SM**, Hudson TJ, Ounpraseuth S, Schrader AM, Hepner KA, Stein BD (2017). Association between process measures and mortality in individuals with opioid use disorders. *Drug and Alcohol Dependence*. 177, 307-314. PMCID: PMC5557034.
10. **Paddock SM**, Hepner KA, Hudson TJ, Ounpraseuth S, Schrader AM, Sullivan G, Watkins KE (2017). Association between process-based quality indicators and mortality for patients with substance use disorders. *Journal of Studies on Alcohol and Drugs*. July;78(4):588-596. PMCID: PMC5551663. <http://dx.doi.org/10.15288/jsad.2017.78.588>
11. Grant S, Watkins KE, Bogart A, **Paddock SM**, Hepner KA (2016). Patient-Reported Offers of Alcohol Treatment for Primary Care Patients at High-Risk for an Alcohol Use Disorder. *Journal of American Board of Family Medicine*. PMCID: PMC5234830.
12. **Paddock SM**, Leininger TJ, Hunter SB (2016). Bayesian Restricted Spatial Regression for Examining Session Features and Patient Outcomes in Open-Enrollment Group Therapy Studies. *Statistics in Medicine*, 35(1), 97-114. PMCID: PMC4715474. NIHMSID NIHMS709686
13. Watkins KE, Smith B, Akincigil A, Sorbero ME, **Paddock SM**, Woodroffe A, Huang C, Crystal S, Pincus HA (2016). The Quality of Medication Treatment for Mental Disorders in the Veterans Administration and Private Sector Plans. *Psychiatric Services*, 67(4), 391-6
14. Zou KH, Yucel RM, **Paddock SM**, Yoon F (2016). Statistical Science at the Forefront of Health Policy Research: Two ICHPS 2015 Special Issues, *Health Services and Outcomes Research Methodology*
15. Carman KG, Eibner C, **Paddock SM** (2015). Trends in Health Insurance Enrollment, 2013-2015. *Health Affairs*, doi: 10.1377/hlthaff.2015.0266 [One of the 10 most-read *Health Affairs* articles of 2015]
16. **Paddock SM**, Adams JL, Hoces de la Guardia F (2015). Better-Than-Average and Worse-Than-Average Hospitals May Not Significantly Differ from Average Hospitals: An Analysis Of Medicare Hospital Compare Ratings (with Discussion), *BMJ Quality and Safety*, 24, 128-134
17. Osilla KC, **Paddock SM**, Leininger TJ, D'Amico EJ, Ewing BA, Watkins KE (2015). A pilot study comparing in-person and web-based motivational interviewing among adults with a first-time DUI offense. *Addiction Science & Clinical Practice*, 10(1): 18. PMCID: PMC4636762

18. **Paddock S.M.**, Hunter S.B., Leininger TJ (2014). Does group cognitive behavioral therapy module type moderate depression symptom changes in substance abuse treatment clients? *Journal of Substance Abuse Treatment*, 47(1), 78-85. NIHMS 571381. PMID: PMC4011957
19. **Paddock SM** (2014). Editorial: Spatial Accessibility of Pediatric Primary Healthcare. *Annals of Applied Statistics*, 8(4), 1921
20. **Paddock SM** (2014). Statistical benchmarks for healthcare provider performance assessment: A comparison of standard approaches to a hierarchical Bayesian histogram-based method. *Health Services Research*, 49(3), 1056-1073
21. Savitsky TD, **Paddock SM** (2014). Bayesian Semi- and Non-parametric Models for Longitudinal Data with Multiple Membership Effects in R. *Journal of Statistical Software*. 57(3), 1-35. PMID: PMC4230496
22. Watkins, K. E., Cuellar, A. E., Hepner, K. A., Hunter, S. B., **Paddock, S.**, Ewing, B. A., & de la Cruz, E. (2014). The cost-effectiveness of depression treatment for co-occurring disorders: a clinical trial. *Journal of Substance Abuse Treatment*. 46, 128-133. PMID: PMC3840153
23. Hunter SB, Ober AJ, **Paddock SM**, Hunt P, Levan D (2014). Continuous Quality Improvement (CQI) in Addiction Treatment Settings: Design and Intervention Protocol of a Group Randomized Pilot Study. *Addiction Science and Clinical Practice*, 9:4. DOI: 10.1186/1940-0640-9-4
24. Chinman M, Ebener P, Burkhart Q, Osilla KC, Imm P, **Paddock SM**, Wright PA (2014). Evaluating the impact of Getting to Outcomes-Underage Drinking on prevention capacity and alcohol merchant attitudes and selling behaviors. *Prevention Science*, 15, 485-496
25. Hepner KA, **Paddock SM**, Watkins KE, Solomon J, Blonigen DM, & Pincus H. (2014) Perceptions of behavioral health care among veterans: Results from a national survey. *Psychiatric Services*, 65, 988-996, 2014. doi: 10.1176/appi.ps.201200385
26. **Paddock SM** (2013). Editorial: Estimating the historical and future probabilities of large terrorist events. *Annals of Applied Statistics*, 7(4), 1837.
27. **Paddock SM**, Savitsky TD (2013). Bayesian Hierarchical Semiparametric Modelling of Longitudinal Post-treatment Outcomes from Open Enrolment Therapy Groups. *Journal of the Royal Statistical Society, Series A*, 176(3), 795-808. PMID: PMC3864894.
28. Savitsky TD, **Paddock SM** (2013). Bayesian Non-Parametric Hierarchical Modeling for Multiple Membership Data in Grouped Attendance Interventions. *Annals of Applied Statistics*, 7(2), 1074-1094. NIHMS number 428221. PMID: PMC3833697.
29. **Paddock SM**, Savitsky TD (2013). Discussion of 'Bayesian Nonparametric Inference – Why and How,' by P. Mueller and R. Mitra. *Bayesian Analysis*, 8(2), 323-356. PMID: PMC4364550.
30. Hunter SB, **Paddock SM**, Zhou A, Watkins KE, Hepner K (2013) Do client attributes moderate the effectiveness of a group cognitive behavioral therapy for depression in addiction treatment? *Journal of Behavioral Health Services & Research*, 40(1), 57-70. PMID: 22828976. PMID: In progress.
31. **Paddock SM**, Woodroffe A, Watkins KE, Sorbero M, Smith B, Mannle TE, Solomon J, Pincus HA (2013). The quality of mental health care for veterans of Operation Enduring Freedom and Operation Iraqi Freedom. *Medical Care*, 51(1), 84-89.
32. Acosta, J., Chinman, M., Ebener, P., Malone, P.S., **Paddock, S.**, Phillips, A., Scales, P., & Slaughter M.E. (2013). An intervention to improve program implementation: findings from a two-year cluster randomized trial of Assets-Getting To Outcomes. *Implementation Science*, 8:87, doi:10.1186/1748-5908-8-87. PMID: PMC3751245.



33. Chinman, M., Acosta, J., Ebener, P., Burkhart, Q., Clifford, M., Corsello, M., Duffy, T., Hunter, S., Jones, M., Lahti, M., Malone, P.S., **Paddock, S.**, Phillips, A., Savell, S., Scales, P., & Tellet-Royce, N. (2013). Intervening with practitioners to improve the quality of prevention: One year findings from a randomized trial of Assets-Getting to Outcomes. *Journal of Primary Prevention, 34*, 173-191. PMID: PMC3703481
34. Hunter SB, Witkiewitz K, Watkins KE, **Paddock SM**, Hepner KA (2012). The moderating effects of group cognitive behavioral therapy for depression among substance users. *Psychology of Addictive Behaviors, 26*(4), 906-916. PMID: PMC3416919
35. Hunter SB, Watkins KE, Hepner KA, **Paddock SM**, Ewing B, Osilla KC, Perry S, (2012). Treating depression and substance use: A randomized controlled trial. *Journal of Substance Abuse Treatment, 43*, 137-151. PMID: PMC3345298
36. Watkins KE, Hunter SB, Hepner K, **Paddock SM**, Zhou A, de la Cruz E (2012) Group Cognitive Behavioral Therapy for Clients with Major Depression in Residential Substance Abuse Treatment. *Psychiatric Services, 63*(3), 608-611. PMID: 22638007.
37. Lee J, **Paddock SM**, Feeney K (2012). Emotional distress and cognitive functioning of older couples: A dyadic analysis. *Journal of Aging and Health, 24*(1), 113-140. PMID: 21990580. DOI 10.1177/0898264311423703
38. Chinman, M., Acosta, J., Ebener, P., Burkhart, Q., Clifford, M., Corsello, M., Duffy, T., Hunter, S., Jones, M., Lahti, M., Malone, P.S., **Paddock, S.**, Phillips, A., Savell, S., Scales, P., & Tellet-Royce, N. (2012). Establishing and evaluating the key functions of an Interactive Systems Framework based on Assets-Getting to Outcomes. *American Journal of Community Psychology, 50*, 295-310. PMID: PMC3399058
39. **Paddock SM**, Kilmer B, Caulkins JP, Booth MS, Pacula RP (2012). An Epidemiological Model for Examining Marijuana Use over the Life Course. *Epidemiology Research International*, Article ID 520894, 12 pages. doi:10.1155/2012/520894. PMID: PMC3518305.
40. **Paddock SM**, Louis TA. Percentile-based Histogram Estimates for Performance Evaluation of Healthcare Providers (2011) *Journal of the Royal Statistical Society Series C (Applied Statistics), 60*(4), 575-589. PMID: PMC3171002. DOI: 10.1111/j.1467-9876.2010.00760.x
41. **Paddock SM**, Hunter SB, Watkins KE, McCaffrey DF (2011). Analysis of group therapy data under a rolling client admissions policy using conditionally autoregressive priors. *Annals of Applied Statistics. 5*(2A), 605-627. PMID: PMC3158618
42. Watkins KE, Hunter SB, Hepner KA, **Paddock SM**, de la Cruz E, Zhou AJ, Gilmore J (2011). An effectiveness trial of group cognitive behavioral therapy for patients with persistent depressive symptoms in substance abuse treatment. *Archives of General Psychiatry. 2011*;68(6):577-584. doi:10.1001/archgenpsychiatry.2011.53. PMID: PMC3230556
43. Hepner KA, Hunter SB, **Paddock SM**, Zhou A, Watkins KE (2011). Training addiction counselors to implement CBT for depression. *Administration and Policy in Mental Health and Mental Health Services Research. 38*(4):313-23. DOI 10.1007/s10488-011-0359-7. PMID: PMC3123717
44. Chinman M, Burkhart Q, Ebener P, Fan C, Imm P, Osilla KC, **Paddock SM**, Wright PA (2011). The Premises is the Premise: Understanding Off- and On-Premises Alcohol Sales Outlets to Improve Environmental Alcohol Prevention Strategies. *Prevention Science, 12*(2), 181-191

45. Watkins KE, Pincus HA, **Paddock S**, Smith B, Woodroffe A, Farmer C, Sorbero ME, Horvitz-Lennon M, Mannle T, Hepner KA, Solomon J, Call C (2011). Care for veterans with mental and substance use disorders: Good performance, but room to improve on many measures. *Health Affairs*, 31(11), 2194-2203.
46. Watkins KE, Keyser DJ, Smith B., Mannle T, Kivlahan DR, **Paddock S**, Mattox T, Horvitz-Lennon M, Pincus HA (2010) Transforming Mental Health Care in the Veterans Health Administration: A Model for Measuring Performance to Improve Access, Quality, and Outcomes. *Journal for Healthcare Quality*, 32(6), 33-34
47. Polsky D, Doshi JA, Escarce J, Manning W, **Paddock S**, Cen L, Rogowski J (2010). Response to McWilliams Commentary "Assessing the Health Effects of Medicare Coverage for Previously Uninsured Adults: A Matter of Life and Death?" *Health Services Research* 45, no. 5, pt. 1, Oct. 2010, p. 1423-1429
48. Lin R, Louis TA, **Paddock SM**, Ridgeway G (2009) Ranking USRDS provider specific SMRs from 1998-2001. *Health Services and Outcomes Research Methodology*, 9, 22-38. PMID: PMC2664159
49. **Paddock SM**, Ebener P (2009) Subjective prior distributions for modeling longitudinal continuous outcomes with non-ignorable dropout. *Statistics in Medicine*, 28, 659-678. PMID: PMC2871545
50. Tanielian T, Jaycox L, **Paddock SM**, Chandra A, Meredith L, Burnam MA (2009). Improving Treatment Seeking Among Adolescents with Depression: Understanding Readiness for Treatment. *Journal of Adolescent Health*, 45(5), 490-498
51. Jaycox LH, Stein BD, **Paddock S**, Miles JNV, Chandra A, Meredith LS, Tanielian T, Hickey S, Burnam MA (2009). Impact of Teen Depression on Academic, Social, and Physical Functioning, *Pediatrics*, 124, 596-605
52. Meredith LS, Stein BD, **Paddock SM**, Jaycox LH, Quinn VP, Chandra A, Burnam A. (2009) "Perceived Barriers to Treatment for Adolescent Depression," *Medical Care*, 47, 677-685
53. Polsky D, Doshi JA, Escarce J, Manning W, **Paddock SM**, Cen L, Rogowski J (2009) The Health Effects of Medicare for the Near-Elderly Uninsured. *Health Services Research*, 44 (3), 926-945.
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#### Peer-Reviewed Monographs, Reports, & Chapters

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#### Non-Peer-Reviewed Monographs, Reports, Chapters, and Briefings

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112. Ghosh Dastidar B, **Paddock S** (2005) Comment on "The impact of technology on the scientific method." *Chance*, 18, 9-12
113. Polsky D, Doshi JA, Thompson CE, **Paddock S** (2005) Differential Loss to Follow-up by Insurance Status in the Health and Retirement Study: Implications for National Estimates on Health Insurance Coverage. *Archives of Internal Medicine*, 165, 2537-2538
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117. **Paddock SM** (2003) A Bayesian Instrumental Variables Model with a Categorical Endogenous Covariate. Proceedings of the Joint Statistical Meetings of the American Statistical Association, 3160-3162

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120. **Paddock S**, Abrams J, Muss H, Aisner J, Berry DA (1998) Choosing Dose of Megestrol Acetate in Metastatic Breast Cancer: A Bayesian Approach to Clinical Problem Solving. Discussion Paper 98-12, ISDS Duke University

### **BOOK REVIEW**

120. **Paddock SM** (2016). Review of "Bayesian Methods: A Social and Behavioral Sciences Approach (3rd ed)," by Jeff Gill. *The American Statistician*, 70(1), 120.

### **FIRST-AUTHORED INVITED PRESENTATIONS**

"Applications: Health Care Provider Performance Assessment." Office of Planning, Research & Evaluation Methods Meeting: Bayesian Methods for Social Policy Research and Evaluation. Washington, DC, 10/2017

"Career development strategies for statistical researchers and data scientists," Women in Statistics and Data Science Conference, San Diego, CA 10/2017

"Defining and estimating reliability in hierarchical logistic regression models for health care provider profiling," Invited poster, Joint Statistical Meetings, Chicago, IL, 8/2016

"Physician-Level Public Reporting: Improving the State of the Science," Panelist, 2015 AHRQ Research Conference, Arlington, VA, 10/2015

"Establishing the Predictive Validity of Substance Use Disorders Treatment Quality Measures: Analytic Considerations and Findings," Addiction Health Services Research Conference, Marina del Rey, CA, 10/2015

"The Value of Internships," Panelist, Women in Statistics Conference, Durham, NC 5/2014

"Editorial Roles: From Peer Reviewer to Editor-in-Chief," Panelist, Women in Statistics Conference, Durham, NC 5/2014

"The Future of Statistics." UCLA Department of Statistics Seminar Series, 11/2013

"Statistical Benchmarking Healthcare Provider Performance: Some Statistical Considerations."  
Department of Biostatistics, UCLA, 5/2013

Interface Symposium, Chapman University, Irvine, CA, 4/2013

Panelist, "Panel on Publishing," IMS 14<sup>th</sup> Meeting of New Researchers in Statistics & Probability, San Diego, CA, 8/2012

"How do Widely-used Statistical Benchmarking Approaches Compare to Optimal Estimation Under Hierarchical Bayesian Modeling?" Joint Statistical Meetings in San Diego, CA, 7/2012

“Analysis of client outcomes in group therapy studies under open enrollment”

Center for Statistics and the Social Sciences, University of Washington, Seattle, WA, 11/11

San Diego State University, 12/11

UCLA Department of Statistics, 3/12

“Analysis of post-treatment outcomes in group therapy studies under open enrollment.” International Conference on Health Policy Statistics, Cleveland, OH, 10/11

“Percentile-based Empirical Distribution Function Estimates for Performance Evaluation of Healthcare Providers.” WNAR, San Luis Obispo, CA, 6/11

“Analysis of Rolling Group Therapy Data using Conditionally Autoregressive Priors.” Johns Hopkins University, Bloomberg School of Public Health, Department of Biostatistics, Baltimore, MD 12/10

“Accurately Assessing Treatment Effects for Group Therapy under Open Enrollment Using Multilevel Modeling.” Addiction Health Services Research Conference, Lexington, KY 10/10

“Statistics & Public Policy Research Careers in an Innovation-driven Organization.” Joint Statistical Meetings of the American Statistical Association, Vancouver, BC 8/10

Discussion of "Benefits and costs of alternative substance abuse treatment programs for individuals in state prisons: Results from a lifetime simulation model." International Society for the Study of Drug Policy, Santa Monica, CA 3/10

“A Statistician in Public Policy Research.” Panelist at Careers Day, Southern California American Statistical Association, Duarte CA 3/08

“Bayesian Variable Selection for Analyzing Longitudinal Substance Abuse Treatment Data Subject to Informative Censoring”

University of Nevada at Reno Department of Resource Economics, 11/07

UCLA Department of Biostatistics, 12/07

School-Based Drug Prevention and Other Strategies for Reducing Drug Use, and Methamphetamine community training: “Meth in Your Communities – What Can YOU Do About It?”

Community audience, Salem, Oregon, 3/05

Chamber of Commerce, Salem, Oregon 3/05

“Flexible Prior Distributions and Triple-Goal Estimates in Two-Stage Hierarchical Models”

UCLA Biostatistics Seminar, 11/04

Johns Hopkins Bloomberg School of Public Health, 1/05

Joint Statistical Meetings, American Statistical Association, Minneapolis, 8/05

Baskin School of Engineering, Applied Math & Statistics, UC Santa Cruz, 1/06

“Propensity Score Methods.” Journal Club, RWJ Clinical Scholars Program, UCLA, 9/03

“A Bayesian Nonparametric Approach to Multiple Imputation of Partially Observed Data,”

New Researcher's Conference, International Mathematical Society 8/01

UCLA Biostatistics Seminar, 11/00

“Randomized Polya Trees: Bayesian Nonparametrics for Multivariate Data Analysis”



Joint Statistical Meetings, American Statistical Association, 8/00  
Royal Statistical Society Workshop on Nonparametric Bayes, 7/99  
Carnegie Mellon University Department of Statistics, 2/99  
University of Connecticut Department of Statistics, 2/99  
AT&T Shannon Laboratories Statistics Group, 2/99  
Los Alamos National Laboratory Statistics Group, 2/99  
University of Washington Department of Statistics, 2/99  
RAND Statistics Group, 1/99  
UCLA Department of Biostatistics, 1/99  
University of Minnesota Department of Statistics, 1/99

### **OTHER FIRST-AUTHORED PRESENTATIONS**

“Methodological considerations when adjusting quality measures for socioeconomic status,” Topic-contributed talk, Joint Statistical Meetings, Chicago, IL 8/2016

“Restricted Spatial Regression for Examining Session Features and Patient Outcomes in Open-enrollment Group Therapy Studies,” International Society for Bayesian Analysis, Sardinia, Italy, 6/16

“Cost and Quality of Health Care Provider Organizations in California: A Comparison of Value Metrics,” International Conference on Health Policy Statistics, Providence, RI, 10/2015

“Benchmarking Healthcare Provider Performance using a Hierarchical Bayesian Model,” AcademyHealth, San Diego, 6/2014

“Is 'Above Average' Provider Performance Better Than 'Average' Performance?” Joint Statistical Meetings, Boston, MA 8/14

“Statistical Benchmarking Healthcare Provider Performance: Some Statistical Considerations.” Contributed talk, International Conference on Health Policy Statistics, Chicago, IL, 10/13

“Accounting for Correlated Random and Fixed Effects in Tests of Moderation in Group Therapy Studies.” Talk, Joint Statistical Meetings, American Statistical Association, Montreal, 8/13

“Publishing, Refereeing, and Editorial Service for Applied Statisticians.” AM Roundtable co-leader, Joint Statistical Meetings, American Statistical Association, Montreal, 8/13

“Modeling longitudinal post-treatment client outcomes from open-enrollment therapy groups (poster)”  
Addiction Health Services Research conference, Fairfax, VA, 10/11  
College on Problems of Drug Dependence, Palm Springs, CA, 6/12  
Research Society on Alcoholism, San Francisco, CA, 6/12

“Analysis of Rolling Group Therapy Data using Conditionally Autoregressive Priors”  
Talk, Joint Statistical Meetings of the American Statistical Association, Vancouver, BC 8/10  
Poster, 33<sup>rd</sup> Annual Meeting of the Research Society on Alcoholism, San Antonio, TX, 6/10

“A method to assess uncertainty in system-level performance evaluation measures and statistical benchmarks.” The 8<sup>th</sup> International Conference on Health Policy Statistics, Washington, DC, 1/10

“An Alternative Framework for Measuring the Economic Cost of Drug Abuse.” College on Problems of Drug Dependence, San Juan, Puerto Rico 6/08

Using Microsimulation Modeling to Capture Heterogeneity in Marijuana Use  
International Society for the Study of Drug Policy Conference, Lisbon, 3/08  
College on Problems of Drug Dependence, San Juan, Puerto Rico 6/08

“Subjective Prior Distributions for Modeling Change in Substance Abuse Treatment Process Scores with Non-Ignorable Dropout.” Poster at Case Studies in Bayesian Statistics 9 Workshop, Carnegie Mellon University, 10/07

“Bayesian Variable Selection for Analyzing Longitudinal Substance Abuse Treatment Data Subject to Informative Censoring”

WNAR/IMS Meeting, Irvine, CA 6/07

Joint Statistical Meetings, American Statistical Association, Salt Lake City, 7/07

“Assessing Multiple Inferential Goals Using Flexible Prior Distributions in Two-Stage Hierarchical Models.” Seminar on Bayesian Inference in Econometrics & Statistics, St. Louis, MO 5/07

Discussion of “Improving FBI Crime & Homicide Databases” American Society of Criminology Annual Meeting, Los Angeles CA 11/06

“Hierarchical Modeling of Inpatient Rehabilitation Facility Responses to Prospective Payment.” International Conference on Health Policy Research, Boston MA 10/05

“Addressing Missing Data Bias in Longitudinal Health Services Research Studies: Pattern-mixture Models for Measuring Substance Abuse Treatment Process.” Addiction Health Services Research Meeting, Santa Monica, CA 10/05

“Flexible Prior Distributions and Triple-Goal Estimates in Two-Stage Hierarchical Models.” Contributed Talk, WNAR Regional Meeting, Fairbanks AK, 6/05

“Advances and Applications in Causal Inference.” Discussant, Joint Statistical Meetings, American Statistical Association, Toronto 8/04

“Loss Function Based Ranking in Two-Stage, Hierarchical Models.” International Society for Bayesian Analysis, Viña del Mar, Chile 5/04

“A Bayesian Instrumental Variables Analysis With a Categorical Endogenous Covariate.” Joint Statistical Meetings, American Statistical Association, San Francisco, CA 8/03

“Characterizing Inpatient Rehabilitation Facilities by Patterns of Care.” AcademyHealth Annual Research Meeting, Nashville, TN 6/03

“Identifying and Accommodating Unduly Influential Facilities in Developing a Prospective Payment System for Inpatient Rehabilitation Care”

International Society for Bayesian Analysis Meeting, Tenerife, Spain 6/02

Joint Statistical Meetings, American Statistical Association, New York City 8/02

“A Bayesian Nonparametric Approach to Multiple Imputation of Partially Observed Data”

Joint Statistical Meetings, American Statistical Association 8/01

International Society for Bayesian Analysis Regional Meeting, Laguna Beach, CA 4/01

“Randomized Polya Trees: Bayesian Nonparametrics for Multivariate Data Analysis.” Joint Statistical Meetings, American Statistical Association 8/99

“Determining Customer Availability.” Summer Intern Talk, AT&T Labs Research, Florham Park, NJ 8/98

“Exploring Multivariate Data Structures using Nonparametric Bayesian Trees.” 6th Valencia International Meeting on Bayesian Statistics, Spain 6/98

“Mixture Models of Chemical Activity and Binding in Drug Design,” Case Studies in Bayesian Statistics 4, Carnegie Mellon University, 9/97