

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, 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, RAND Corporation

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 of the American Statistical Association

2013 Fellow, American Statistical Association

2012 Bronze Medal Award, 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 11th 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

- 2016 JASA Reviews Editor Search Committee, member
- 2016 Chair, Health Policy Statistics Section (Elected)
- 2015 Chair-Elect, Health Policy Statistics Section (Elected)
Chair, Health Policy Statistics Section 2015 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- 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, 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, Psychometrika, Statistics and Policy, Statistics in Medicine, Survey Methodology

GRANT REVIEW SERVICE

- 2016 NIH Biostatistical Methods and Research Design (BMRD) study section, 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

- 2016 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: *Introduction to Regression Diagnostics*
 2007-2008 Pardee RAND Graduate School, Instructor: *Empirical Analysis II (Linear Regression)*
 2003 RAND Statistics Short Course Series, Instructor: *Introduction to Bayesian Statistics*
 1997 Duke University, Teaching Assistant: *Applied Regression Analysis*
 1996 Duke University, Teaching Assistant: *Statistics for Public Policy Makers*

1995 Duke University, Teaching Assistant: *Introduction to Statistics*

OTHER PROFESSIONAL SERVICE

Promotion/tenure letter writer (3) in 2010, 2013, 2014

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

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. 9/1/2015-9/1/2016. 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. 9/1/2012-8/31/2016. 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. 9/1/10-5/31/16. 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

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

Research cited in several media outlets on autonomous vehicles, marijuana gateway theory, military and veterans' mental health, Star Ratings for Medicare health plans

CONGRESSIONAL TESTIMONY

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. Kalra N, **Paddock SM** (to appear) Driving to safety: How many miles of driving would it take to demonstrate autonomous vehicle reliability? *Transportation Research Part A: Policy and Practice*
2. Adams JL, **Paddock SM** (to appear) Misclassification Risk of Tier-based Physician Quality Performance Systems. *Health Services Research*. PMID: pending. NIHMSID NIHMS801505
3. Watkins KE, **Paddock SM**, Hudson TJ, Ounpraseuth S, Schrader AM, Hepner KA, Sullivan G (to appear). Association between quality measures and mortality in individuals with co-occurring mental health and substance use disorders. *Journal of Substance Abuse Treatment*.
4. **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. PMID: pending. NIHMSID NIHMS709686
5. 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
6. Carman KG, Eibner C, **Paddock SM** (2015). Trends in Health Insurance Enrollment, 2013-2015. *Health Affairs*, doi: 10.1377/hlthaff.2015.0266
7. **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
8. 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*, PMID: PMC4636762
9. **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
10. **Paddock SM** (2014). Editorial: Spatial Accessibility of Pediatric Primary Healthcare. *Annals of Applied Statistics*, 8(4), 1921
11. **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

12. 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. PMCID: PMC4230496
13. 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. PMCID: PMC3840153
14. 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
15. 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
16. 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
17. **Paddock SM** (2013). Editorial: Estimating the historical and future probabilities of large terrorist events. *Annals of Applied Statistics*, 7(4), 1837.
18. **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. PMCID: PMC3864894.
19. 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. PMCID: PMC3833697.
20. **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. PMCID: PMC4364550.
21. 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. PMCID: In progress.
22. **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.
23. 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. PMCID: PMC3751245.
24. 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. PMCID: PMC3703481
25. 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. PMCID: PMC3416919

26. 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
27. 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.
28. 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
29. 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
30. **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.
31. **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
32. **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
33. 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
34. 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
35. 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
36. 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.
37. 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
38. 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 Un-

- insured Adults: A Matter of Life and Death?" *Health Services Research* 45, no. 5, pt. 1, Oct. 2010, p. 1423-1429
39. 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
 40. **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
 41. 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
 42. 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
 43. 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
 44. 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.
 45. Hunter SB, **Paddock SM**, Ebener P, Burkhart AR, Chinman M (2009). Promoting Evidence Based Practices: The adoption of a prevention support system in community settings. *Journal of Community Psychology*, 37(5), 579-593
 46. Nuckols TK, Bell DS, **Paddock SM**, Hillborne LH (2009) Comparing Process-Oriented and Outcome-Oriented Approaches to Voluntary Incident Reporting in Two Hospitals. *Advances in Patient Safety: New Directions and Alternative Approaches*, 35(3), 139-145.
 47. Chandra A, Marshall GN, Shetty V, **Paddock SM**, Wong EC, Zatzick D, Luo G, Yamashita D-DR (2008) Barriers to Seeking Mental Health Care Following Treatment For Orofacial Injury at a Large, Urban Medical Center: Concordance of Patient and Provider Perspectives. *Journal of Trauma, Injury, Infection and Critical Care*, 65(1), 196-202
 48. Chinman M, Hunter SB, Ebener P, **Paddock SM**, Stillman L, Imm P, Wandersman A (2008) The Getting To Outcomes Demonstration and Evaluation: An Illustration of the Prevention Support System. *American Journal of Community Psychology*, 41, 206-224. PMID: PMC2964843
 49. Nuckols TK, Bell D, **Paddock SM**, Hillbourne LH (2008) Contributing factors identified by hospital incident report narratives. *Quality and Safety in Health Care*, 17, 368-372.
 50. Nuckols TK, Bower AG, **Paddock SM**, Hilborne LH, Wallace P, Rothschild JM, Griffin A, Fairbanks RJ, Carlson B, Panzer RJ, Brook RH (2008) Programmable infusion pumps in ICUs: An analysis of corresponding adverse drug events. *Journal of General Internal Medicine*, 23 Suppl. 1, 41-45
 51. Nuckols TK, **Paddock SM**, Bower AG, Rothschild JM, Fairbanks RJ, Carlson B, Panzer RJ, Hilborne LH (2008) Costs of Intravenous Adverse Drug Events in Academic and Non-academic ICUs. *Medical Care*, 46(1), 17-24
 52. **Paddock SM** (2007) Bayesian variable selection for longitudinal substance abuse treatment data subject to informative censoring (corr. 57(2), 251-252). *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 56, 293-311
 53. **Paddock SM**, Edelen MO, Wenzel SL, Ebener P, Mandell W, Dahl J (2007) Measuring Changes in Client-Level Treatment Process in the Therapeutic Community with the Dimensions of Change Instrument. *American Journal of Drug and Alcohol Abuse*, 33(4) 537-546

54. Edelen MO, Tucker JS, Wenzel SL, **Paddock SM**, Dahl J (2007) Treatment Process in the Therapeutic Community: Associations with Retention and Outcomes among Adolescent Residential Clients Journal of Substance Abuse Treatment. *Journal of Substance Abuse Treatment*, 32, 415-421
55. Nuckols TK, Bell D, Liu H, **Paddock SM**, Hillbourne LH (2007) Rates and Types of Events Reported to Established Incident Reporting Systems in Two U.S. Hospitals. *Quality and Safety in Health Care*, 16, 164-168
56. **Paddock SM**, Escarce JJ, Hayden O, Buntin MB (2007) Did the Medicare Inpatient Rehabilitation Facility Prospective Payment System Result in Changes in Relative Patient Severity and Relative Resource Use? *Medical Care*, 45(2), 123-130
57. Lin R, Louis TA, **Paddock SM**, Ridgeway G (2006) Loss Function Based Ranking in Two-Stage, Hierarchical Models. *Bayesian Analysis*, 1(4), 915-946. PMID: PMC2664159
58. **Paddock SM**, Ridgeway G, Lin R, Louis, TA (2006) Flexible Distributions for Triple-Goal Estimates in Two-Stage Hierarchical Models. *Computational Statistics and Data Analysis*, 50(11), 3243-3262
59. Watkins KE, **Paddock SM**, Zhang L, Wells K (2006) Improving Care for Depression in Patients with Comorbid Substance Misuse. *American Journal of Psychiatry*, 163, 125-132
60. D'Amico EJ, **Paddock SM**, Burnam A, and Kung FY (2005) Identification of and Guidance for Problem Drinking by General Medical Providers: Results from a National Survey. *Medical Care*, 43(3), 229-236
61. Beeuwkes Buntin M, Datar Garten A, **Paddock SM**, Saliba D, Totten M, Escarce JJ (2005) How Much is Post-Acute Care Use Affected by its Availability? *Health Services Research*, 40(2), 413-434
62. **Paddock SM**, Wynn BO, Carter GM, Beeuwkes Buntin M (2004) Identifying and Accommodating Statistical Outliers when Setting Prospective Payment Rates for Inpatient Rehabilitation Facilities. *Health Services Research*, 39(6), 1859-1880
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BOOK REVIEW

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

FIRST-AUTHORED INVITED PRESENTATIONS

- "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 14th 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, 33rd 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 8th 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