

Patrice Renée Cobb

CONTACT INFORMATION University of California, Merced (443) 623-4278
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RESEARCH INTERESTS Bayesian models, spatiotemporal modeling, longitudinal data analysis, single-case designs

EDUCATION **University of California, Merced**, Merced, CA

Doctoral Student, Psychological Sciences, 2013 - present

- Area of study: Quantitative Psychology
- Advisor: William Shadish, Ph.D & Sarah Depaoli, Ph.D.

University of California, San Diego - Extension, San Diego, CA

Certificate, Biostatistics , 2012

Franklin and Marshall College, Lancaster, PA

B.A., Special Studies Major: Psychology, Business & Art, 2006

- John Marshall Leadership Institute

AWARDS AND FELLOWSHIPS Student Awards and Fellowships

- William R. Shadish Leadership and Service Award 2016
University of California, Merced
- Psychological Sciences Graduate Student Researcher Award 2016
University of California, Merced
- Psychological Sciences Graduate Student Researcher Award 2015
University of California, Merced
- Research on Evaluation Fellowship, 2014
University of California Educational Evaluation Center
- Psychological Sciences Graduate Student Researcher Award 2014
University of California, Merced
- Psychological Sciences Graduate Award 2014
University of California, Merced

Travel Awards

- Society of Multivariate Experimental Psychology 2014
- Psychological Sciences Travel and Research Award 2014
University of California, Merced

PUBLICATIONS

1. Depaoli, S., Clifton, J.P., **Cobb, P.R.** "Just Another Gibbs Sampler (JAGS): Flexible Software for MCMC Implementation." *J. Educ. Behav. Stat.* In Press.
2. **Cobb, P.** & Shadish W. Abstract: Assessing Trend in Single Case Designs using Generalized Additive Models. *Multivariate Behavioral Research*, 50, 131, 2015.
3. Feifel, D., MacDonald, K., **Cobb, P.**, Minassian, A. "Adjunctive intranasal oxytocin improves verbal memory in people with schizophrenia." *Schizophr Res.*, 139 (1-3):207-10, 2012.
4. MacDonald K, Wilson M, Minassian A, Vilke G, Becker O, Tallian K, **Cobb, P.**, Perez R, Galangue B, Feifel D. A naturalistic study of intramuscular haloperidol versus intramuscular olanzapine for the management of acute agitation. *J Clin Psychopharmacol.* 2012 Jun;32(3):317-22.
5. Feifel D, Galangue B, MacDonald K, Becker O, Cooper J, Zanto C, Dinca A, **Cobb, P.** A Naturalistic, Single Blind Comparison of Rapid Dose Administration of Divalproex ER Versus Quetiapine in Patients with Acute Bipolar Mania. *Innov Clin Neurosci.* 2011 Jan;8(1):29-35.
6. Feifel D, Macdonald K, Nguyen A, **Cobb, P.**, Warlan H, Galangue B, Minassian A, Becker O, Cooper J, Perry W, Lefebvre M, Gonzales J, Hadley A. Adjunctive intranasal oxytocin reduces symptoms in schizophrenia patients. *Biol Psychiatry.* 2010 Oct 1;68(7):678-80. Epub 2010 Jul 7.
7. MacDonald K, Wilson M, Minassian A, Vilke G, Perez R, **Cobb, P.**, Tallian K, Becker O, Feifel D. A retrospective analysis of intramuscular haloperidol and olanzapine in the treatment of agitation in drug and alcohol-using patients. *Gen Hosp Psychiatry.* 2010 Jul-Aug;32(4):443-5. Epub 2010 Jun 12.
8. Kelley-Baker T, Brainard K, Lacey J, Vishnuvajjala R, **Cobb, P.** Implementing a Citizens DWI Reporting Program Using the Extra Eyes Model. National Highway Traffic Safety Administration (2008).

PRESENTATIONS

- Modern Modeling Methods (poster) May 2016
- American Educational Research Association Oct 2015
- Western Psychological Association Convention, May 2014
- American Psychological Association Cont. Ed. Symposium
- Western Psychological Association Convention (poster) April 2014
- Society for Multivariate Experimental Psychology (poster) Oct 2014
- Association of Psychological Science (poster) May 2014

- Biological Psychiatry Annual Meeting (poster) Apr 2013
- American College of Neuropsychopharmacology (poster) Oct 2011
- International Society for Biomedical Research on Alcoholism 2008 (poster)

RESEARCH
EXPERIENCE

Graduate Student Researcher 2013 to Present

Psychological Sciences,
University of California, Merced
Advisor(s): William Shadish, Ph.D & Sarah Depaoli, Ph.D
Pre-candidacy Project: Assessing Trend in Single Case Designs Using Generalized Additive Models

Research Associate 2008 to 2013

Neuropsychopharmacology Laboratory,
University of California, San Diego
Supervisors: David Feifel, M.D., Ph.D

- Worked with animal models to develop better treatments for brain disorders, such as schizophrenia.
- Performed data analysis of lab data for publications and presentations.

Transcranial Magnetic Stimulation Technician 2009 to 2013

Neuropsychiatry and Behavioral Medicine,
University of California, San Diego
Supervisors: David Feifel, M.D., Ph.D

- Certified by The NeuroStar University Clinical Training Program for TMS Therapy.
- Locate patient motor threshold and perform routine treatments.

Clinical Research Associate 2008 to 2013

Neuropsychiatry and Behavioral Medicine,
University of California, San Diego
Supervisors: David Feifel, M.D., Ph.D

- Assist in technical determinations and/or make technical observations in one or more fields of scientific endeavor that yield technical data about the phenomena under investigation. The technical data yielded are used primarily for research and teaching, but the data may also relate to public service, such as patient care.
- Perform statistical analysis of research data and maintain electronic databases.
- Develop research plans aimed to investigate a real world phenomena.
- Perform laboratory and field experimental procedures in support of academically-supervised research and teaching in neuropsychiatry and behavioral medicine.

Research Assistant 2006 to 2008

Pacific Institute for Research and Evaluation,

Supervisors: John Lacy, Mph & Katharine Brainard

- Developed a user friendly interface using Visual Basic and C++ programming language to collect and synchronize data from sites across the nation.
- Assisted Principal Investigator and in day-to-day coordination of several research projects, including site selection, data collection, and analysis.
- Helped create a training program for data collectors.
- Conducted complex survey research in the field, including the collection of blood alcohol levels and oral fluid samples.

WORK IN
PROGRESS

1. Depaoli, S., Clifton, J., **Cobb, P.** (under review). Just Another Gibbs Sampler (JAGS): Flexible Software for MCMC Implementation. Journal of Educational and Behavioral Statistics
2. **Cobb, P.**, Shadish, W., (in preparation). Methods for Handling Under-Dispersed Data in Count Outcomes
3. Shadish, W., Rindskopf, D., **Cobb, P.** (in preparation). Bayesian Correspondence Criteria for Within-Study Comparisons (funding by the National Science Foundation)
4. Collaborative Research: Brain Mechanisms of Rhythm Perception: The Impact of the Motor System on Auditory Perception. (P.I. Ramesh Balasubramaniam, Ph.D, funding by the National Science Foundation)
5. Dicey-Jennings, C., Kyrilov, A., **Cobb, P.**, Vlasits, J., Vinson, D., Montes, E. and Franco, C. (in preparation). Academic Placement Data and Analysis in Philosophy (Funded by the American Philosophical Association)
6. **Cobb, P.** (in preparation). The Effects of Oxytocin on Social Cognition in Schizophrenia and Autism Spectrum Disorders: A Meta-Analysis

TEACHING
EXPERIENCE

Teaching Certifications:

Developing Teaching Strategies

Spring 2016

- Critical Thinking
- Active Learning Strategies
- Best Practices for Large Classrooms

- Best Practices for Small Group Discussions
- Improving Teaching by Assessing Learning Fall 2015
- Curriculum Design
- Designing Rubrics
- Instructional Assessment and Student Evaluations
- How to Write a Teaching Statement

Center for Engaged Teaching and Learning Intern Fall 2015 - cont
 Teaching Assistant:

Introduction to Psychology Spring 2014
 Instructor: Ross Avilla, Ph.D
 Psychological Sciences,
 University of California, Merced

Abnormal Psychology Fall 2013
 Instructor: James McDiarmid, Ph.D
 Psychological Sciences,
 University of California, Merced

Guest Lecturer Fall 2013
 Epidemiology and Etiology of Schizophrenia
 Instructor: James McDiarmid, Ph.D
 Psychological Sciences,
 University of California, Merced

HARDWARE & SOFTWARE SKILLS Computer Programs: R project; SAS; SPSS; HLM; M-Plus; OpenBUGS; WinBUGS; JAGS; Latex; Some previous experience in C++, SQL, and MATLAB