

Colin Lewis-Beck

CONTACT INFORMATION	2418 Snedecor Hall Department of Statistics Iowa State University Ames, Iowa USA 50011	<i>Phone:</i> 617.784.3596 <i>E-mail:</i> clewisbe@iastate.edu
RESEARCH INTERESTS	Agricultural statistics, hierarchical modeling, spatial statistics, and reliability	
EDUCATION	PhD in Statistics Iowa State University, <i>Expected:</i> Fall 2018 Dual MPP/MA in Public Policy and Applied Statistics University of Michigan, 2010 BA in French and Film Studies Middlebury College, 2005	
PUBLICATIONS	Mittman E., Lewis-Beck C., Meeker W.Q., “A Hierarchical Model for Heterogenous Reliability Field Data.” <i>Under Review</i> Lewis-Beck C., Lewis-Beck M. <u>Applied Regression: An Introduction</u> , Second Edition, Sage Publications, 2015 Lewis-Beck C., Abouzaid S., Xie L., Baser O., Kim E. “Analysis of relationship between psoriasis severity and quality of life, work productivity, and activity impairment among patients with moderate to severe psoriasis using structural equation modeling” <i>Preference and Adherence</i> . 2013;7 1-7 Wang, L., Lewis-Beck, C., Baser, E., Fritschel, E. and Baser, O. “Applied comparison of meta-analysis techniques.” <i>Value in Health</i> . 2013 Nov 1; 16(7):A701	
WORK EXPERIENCE	Software Developer , NIMBLE, Berkeley, CA Summer 2017 Interned as part of the Google Summer of Code program <ul style="list-style-type: none">• Wrote and tested an R package to fit ecological statistical models• Collaborated with other programmers using GitHub• Wrote code that went into the main nimble R package Statistical Analyst , STATinMED Research, Ann Arbor, MI 2011-2012 Research Department <ul style="list-style-type: none">• Analyzed large claim databases using advanced statistical techniques (e.g., GLMs, SEMs, propensity score matching, and meta-analysis)• Drafted statistical protocols and wrote final manuscripts analyzing and interpreting study results for client, as well as academic, publication• Worked directly with clients, senior researchers, and programmers to ensure projects were completed correctly and on schedule	
TEACHING EXPERIENCE	Instructor , Iowa State University 2017-Present Give weekly lectures, write exams and homework, and hold office hours for the following courses: <ul style="list-style-type: none">• <i>Engineering Probability</i> (Spring 2018)	

- *Statistics for Engineers* (Spring 2017, Fall 2017)

Teaching Assistant, Iowa State University **2014-2015**

Taught lab sections, graded, and held office hours for the following courses:

- *Applied Statistical Modeling (Graduate Course)* (Fall 2015)
- *Introduction to Statistics* (Fall 2014, Spring 2015)

Graduate Student Instructor, University of Michigan **2007-2010**

Taught lab sections, graded homework and exams, and prepared weekly lessons and activities for the following courses:

- *Introduction to Statistical Reasoning* (Fall 2009, Spring 2010)
- *Introduction to Statistics and Data Analysis* (Spring 2009)
- *Statistics for Public Policy (Graduate Course)* (Spring 2008, Fall 2008)
- *Introduction to Microeconomics for Public Policy* (Fall 2007)

PRESENTATIONS
AND WORKSHOPS

Poster Presentation, Joint Statistical Meetings (JSM), Baltimore, MD (August 2017)

Graduate Workshop on Environmental Data Analytics, National Center for Atmospheric Research (NCAR), Boulder, CO (June 2017)

Speaker (with Hal Stern), Center for Statistics and Applications in Forensic Evidence (CSAFE), “An Introduction to Statistical Thinking for Forensic Practitioners” Palm Beach County Sheriffs Office, Palm Beach, FL (March 2016)

Invited Blalock Lecturer (with Michael Lewis-Beck), Interuniversity Consortium for Political and Social Research (ICPSR), University of Michigan, “Regression Questions You Always Wanted to Ask” (July 2015)

Poster Presentation, International Society for Pharmacoeconomics and Outcomes Research (ISPOR), Washington, DC (June 2012)

AWARDS

SAGE Cornerstone Author Award for publication (with Michael Lewis-Beck) of Applied Regression: An Introduction, Second Edition (2015)

Outstanding Teaching Award, University of Michigan, Dept. of Statistics (2010)

OTHER
EXPERIENCE

Summer Program Computing Consultant **Summer (2006, 2013, 2014)**
ICPSR, University of Michigan

- Assisted program participants and faculty with a wide range of statistical and programming backgrounds with questions in R, Stata, SPSS, and SAS
- Promoted to Team Leader (2013, 2014). Responsible for supervising a staff of 8 Computer Consultants.

COMPUTER
SKILLS

Mathematical Computing: R, Rcpp, Rstan, Stata, and JMP
Other: L^AT_EX, GitHub, Microsoft Office

PROFESSIONAL
MEMBERSHIPS

American Statistical Association