### Ethan Berger Anderes

Curriculum Vitae<sup>1</sup>
Department of Statistics
University of California at Davis
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### Education

Ph.D. in Statistics, University of Chicago	2005
Thesis: Estimating Deformations of Gaussian Random Fields. Adviser: Michael L. Stein.	
Bachelor of Arts in Mathematics, University of Minnesota	2000
Bachelor of Arts in Philosophy, University of Minnesota	2000
Professional Experience	
Associate Professor, Department of Statistics University of California at Davis	2014-present
Assistant Professor, Department of Statistics University of California at Davis	2008-2014
Visiting Assistant Professor, Department of Statistics University of California at Berkeley	2006-2008
NSF Mathematical Sciences Postdoctoral Fellowship University of California at Berkeley	2005-2008
Research and Software Development Jet Propulsion Laboratory, NASA	Summer 2007
Current Preprints	

## Current Preprints

- [1] E. Anderes, S. Borgwardt and J. Miller. Discrete Wasserstein Barycenters: Optimal Transport for Discrete Data. http://arxiv.org/abs/1507.07218.
- [2] E. Anderes and M. Coram. A general spline representation for nonparametric and semiparametric density estimates using diffeomorphisms. arxiv.org/abs/1205.5314.

<sup>&</sup>lt;sup>1</sup>Suppporting documents, including publication preprints, can be found at https://github.com/ EthanAnderes/Curriculum-Vitae

#### Published Papers

- [1] E. Anderes, B. D. Wandelt and G. Lavaux (2014). Bayesian inference of CMB gravitational lensing. The Astrophysical Journal 808, 152
- [2] E. Anderes (2013). Decomposing CMB lensing power with simulation. Physical Review D 88, 083517
- [3] E. Anderes, Huser, R., Nychka, D., Coram, M. (2013). Nonstationary positive definite tapering on the plane. Journal of Computational and Graphical Statistics 22, 4, 848-865.
- [4] E. Anderes and D. Paul (2012). Shrinking the quadratic estimator of weak lensing. Physical Review D 85, 103003.
- [5] E. Anderes and A. van Engelen (2012). The matter spectral density from lensed CMB observations. . Statistical Challenges in Modern Astronomy V, Springer-Verlag, New York.
- [6] E. Anderes (2012). Robust Adaptive Wiener Filtering. Refereed paper for IEEE International conference on image processing.
- [7] E. Anderes (2012). Kriging. Encyclopedia of Environmetrics ed2, Wiley.
- [8] E. Anderes, L. Knox, A. van Engelen (2011). Mapping gravitational lensing of the CMB using local likelihoods. Physical Review D 83, 043523.
- [9] E. Anderes and M. Stein (2011). Local likelihood estimation for nonstationary random fields. Journal of Multivariate Analysis 102, 506-520.
- [10] E. Anderes and M. Coram (2011). Two dimensional density estimation using smooth invertible transformations. Journal of Statistical Planning and Inference 141, 1183-1193.
- [11] E. Anderes (2010). On the consistent separation of scale and variance for gaussian random fields. The Annals of Statistics 38, 870-893.
- [12] E. Anderes, B. Yu, V. Jovanovic, C. Moroney, M. Garay, A. Braverman, E. Clothiaux (2009). Maximum likelihood estimation of cloud height from multi-angle satellite imagery. Annals of Applied Statistics 3, 902-921.
- [13] E. Anderes and S. Chatterjee (2009). Consistent estimates of deformed isotropic gaussian random fields on the plane. The Annals of Statistics 37, 2324-2350.
- [14] E. Anderes and M. Stein. (2008). Estimating deformations of isotropic gaussian random fields on the plane. The Annals of Statistics 36, 719-741.

# Grants

0.1 4.110.5	
NSF CAREER grant DMS-1252795 Title: Deformations in statistics, cosmology and image analysis.	2013-present
NSF grant DMS-1007480 Title: Local Likelihood Estimation for Nonstationary Random Fields.	2009-2014
NSF Mathematical Sciences Postdoctoral Fellowship University of California at Berkeley	2005-2008
Professional Service	
Treasurer Nonparametric Section of the American Statistical Association	2015
NSF panel reviewer Division of Mathematical Sciences	2015
Co-organizer UC Davis Statistical Sciences Symposium on Spatial-Temporal Statistics: Methods and Applications, UC Davis	2014
Associate Editor The American Statistician	2013 - 2014
President Sacramento branch of the ASA	2011
Vice President Sacramento branch of the ASA	2010
Co-organizer UC Davis Statistical Sciences Symposium on Statistical Methods for Astronomy and Astrophysics, UC Davis	2011
Member Universe at UCDavis Initiative	2008 - present
Invited Lectures	
[1] Invited presentation, ICSA Graybill Conference, Fort Collins, CO.	2015
[2] Invited presentation, IMS-China International Conference, Kunming, C	Shina. 2015
[3] Invited presentation, Computing the Universe workshop, Berkeley, CA.	2015
[4] Invited presentation, IMS Asia Pacific Rim Meeting, Taipei, Taiwan.	2014
[5] Invited presentation, Carnegie Mellon University, Pittsburgh, PA.	2014

[6]	Invited presentation, Joint Statistical Meeting, Boston, MA.	2014
[7]	Invited presentation, ICSA International Conference, Hong Kong, China.	2013
[8]	Invited presentation, BIRS CosmoStat13 workshop, Banff, Canada.	2013
[9]	Invited seminar, Columbia University, NY.	2013
[10]	Invited seminar, University of Michigan, Ann Arbor, MI.	2013
[11]	Invited seminar, Stanford University.	2012
[12]	Invited presentation, Workshop on Computer Science and Statistics of Contemporary CMB data analysis, Paris, France.	2012
[13]	Topic contributed paper and talk, Joint Statistical Meeting, San Diego, CA.	2012
[14]	IMS invited session, IMS Asia Pacific Rim meeting, Tsukuba, Japan.	2012
[15]	IMS invited session WNAR Annual Meeting, Fort Collins, Colorado.	2012
[16]	Invited seminar, Center for Time Domain Informatics, University of California at Berkeley.	2012
[17]	Invited seminar, University of Rome, Tor Vergata, IT.	2012
[18]	Invited presentation, Workshop on Statistical Methods for Astronomy and Astrophysics, UC Davis.	2011
[19]	Invited presentation, Conference on Statistical Challenges in Modern Cosmology V, Penn State.	2011
[20]	Invited seminar, University of California at Davis.	2011
[21]	Topic contributed paper and talk, Joint Statistical Meeting, Vancouver, BC.	2010
[22]	Invited presentation, Interface Conference, Seattle.	2010
[23]	Invited presentation, Conference on the Frontiers of Statistical Decision Making and Bayesian Analysis in Honor of James O. Berger, San Antonio.	2010
[24]	Invited new-researcher presentation, SAMSI conference, Space-time Analysis for Environmental Mapping, Epidemiology and Climate Change. SAMSI.	2009
[25]	Invited presentation, Oberwolfach conference, Challenges in Statistical Theory: Complex Data Structures and Algorithmic Optimization, Germany.	2009
[26]	Invited seminar, University of California at Riverside.	2009
[27]	Invited presentation, Stanford Institute for Theoretical Economics.	2008
[28]	Invited presentation, International Biometric Society, ENAR, Arlington.	2008
[29]	Invited presentation, Data Users Science Symposium, Caltech, Pasadena.	2006
[30]	Invited presentation, International Biometric Society, ENAR meeting, Tampa.	2006