Ethan Berger Anderes

Curriculum Vitae as of October 2015
Department of Statistics
University of California at Davis
(773) 315-3613
anderes@ucdavis.edu

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

[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.

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

NSF CAREER grant DMS-1252795   *2013-present*
Title: *Deformations in statistics, cosmology and image analysis.*

NSF grant DMS-1007480   *2009-present*
Title: *Local Likelihood Estimation for Nonstationary Random Fields.*

NSF Mathematical Sciences Postdoctoral Fellowship
University of California at Berkeley   *2005-2008*

Professional Service

Treasurer
Nonparametric Section of the American Statistical Association
2015

Associate Editor
The American Statistician
2013 - 2014

President
Sacramento branch of the ASA
2011

Vice President
Sacramento branch of the ASA
2010

Co-organizer
Workshop on Statistical Methods for Astronomy and
Astrophysics, UC Davis
2011

Member
Universe at UCDavis Initiative
2008 - present

Invited Lectures

[1] Invited presentation, Computing the Universe workshop, Berkeley, CA.   *2015*

[2] Invited presentation, IMS Asia Pacific Rim Meeting, Taipei, Taiwan.   *2014*

[3] Invited presentation, Carnegie Mellon University, Pittsburgh, PA.   *2014*

[4] Invited presentation, Joint Statistical Meeting, Boston, MA.   *2014*

[5] Invited presentation, ICSA International Conference, Hong Kong, China.   *2013*

[6] Invited presentation, BIRS CosmoStat13 workshop, Banff, Canada.   *2013*

[7] Invited seminar, Columbia University, NY.   *2013*

[8] Invited seminar, University of Michigan, Ann Arbor, MI.   *2013*

[9] Invited seminar, Stanford University.   *2012*

[10] Invited presentation, Workshop on Computer Science and Statistics of
Contemporary CMB data analysis, Paris, France.   *2012*

[11] Topic contributed paper and talk, Joint Statistical Meeting, San Diego, CA.   *2012*

[12] IMS invited session, IMS Asia Pacific Rim meeting, Tsukuba, Japan.   *2012*

[13] IMS invited session WNAR Annual Meeting, Fort Collins, Colorado.   *2012*

[14] Invited seminar, Center for Time Domain Informatics,
University of California at Berkeley.   *2012*

[15] Invited seminar, University of Rome, Tor Vergata, IT. *2012*

[16] Invited presentation, Workshop on Statistical Methods for
Astronomy and Astrophysics, UC Davis. *2011*

[17] Invited presentation, Conference on Statistical Challenges in
Modern Cosmology V, Penn State. *2011*

[18] Invited seminar, University of California at Davis. *2011*

[19] Topic contributed paper and talk, Joint Statistical Meeting, Vancouver, BC. *2010*

[20] Invited presentation, Interface Conference, Seattle. *2010*

[21] Invited presentation, Conference on the Frontiers of Statistical Decision Making
and Bayesian Analysis in Honor of James O. Berger, San Antonio. *2010*

[22] Invited new-researcher presentation, SAMSI conference, Space-time Analysis for
Environmental Mapping, Epidemiology and Climate Change. SAMSI. *2009*

[23] Invited presentation, Oberwolfach conference, Challenges in Statistical Theory:
Complex Data Structures and Algorithmic Optimization, Germany. *2009*

[24] Invited seminar, University of California at Riverside. *2009*

[25] Invited presentation, Stanford Institute for Theoretical Economics. *2008*

[26] Invited presentation, International Biometric Society, ENAR, Arlington. *2008*

[27] Invited presentation, Data Users Science Symposium, Caltech, Pasadena. *2006*

[28] Invited presentation, International Biometric Society, ENAR meeting, Tampa. *2006*