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   *Summer 2007*
Jet Propulsion Laboratory, NASA

Publications and Technical Reports

[1] Anderes, E and Stein, M. (2008): Estimating deformations of isotropic gaussian random fields on the plane. *The Annals of Statistics* **36**, 719-741.

[2] Anderes, E. and Chatterjee, S. (2009): Consistent estimates of deformed isotropic gaussian random fields on the plane. *The Annals of Statistics* **37**, 2324-2350.

[3] Anderes, E., Yu, B., Jovanovic, V., Moroney, C., Garay, M., Braverman, A., Clothiaux E. (2009): Maximum likelihood estimation of cloud height from multi-angle satellite imagery. *Annals of Applied Statistics* **3**, 902-921.

[4] Anderes, E. (2010): On the consistent separation of scale and variance for gaussian random fields. *The Annals of Statistics* **38**, 870-893.

[5] Anderes, E. and Coram, M. (2011): Two dimensional density estimation using smooth invertible transformations. *Journal of Statistical Planning and Inference* **141**, 1183-1193.

[6] Anderes, E., Knox, L., van Engelen, A. (2011): Mapping gravitational lensing of the CMB using local likelihoods. *Physical Review D* **83**, 043523.

[7] Anderes, E. and Stein, M. (2011): Local likelihood estimation for nonstationary random fields. *Journal of Multivariate Analysis* **102**, 506-520.

[8] Anderes, E. (2012a): Robust Adaptive Wiener Filtering. Refereed paper for *IEEE International conference on image processing.*

[9] Anderes, E. (2012b): Kriging. *Encyclopedia of Environmetrics ed2*, Wiley.

[10] Anderes, E. and Coram, M. (2012): A general spline representation for nonparametric and semiparametric density estimates using diffeomorphisms. arXiv:1205.5314.

[11] Anderes, E., Huser, R., Nychka, D., Coram, M. (2012): Nonstationary positive definite tapering on the plane. To appear in the *Journal of Computational and Graphical Statistics.*

[12] Anderes, E. and Paul, D. (2012): Shrinking the quadratic estimator of weak lensing. *Physical Review D* **85**, 103003.

[13] Anderes, E. and van Engelen, A. (2012): *Statistical Challenges in Modern Astronomy V*, Springer-Verlag, New York.

[14] Anderes, E. (2013): Decomposing CMB lensing power with simulation. *Physical Review D* **88**, 083517

[15] Anderes, E., Wandelt, B., Lavaux, G. (2015): Bayesian inference of CMB gravitational lensing. *The Astrophysical Journal*, **808**, 152

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	*2011*
Sacramento branch of the ASA	
Vice President	*2010*
Sacramento branch of the ASA	
Co-organizer	
Workshop on Statistical Methods for Astronomy and	*2011*
Astrophysics, UC Davis	
Member	*2008 - present*
Universe at UCDavis Initiative	

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*