

Colin Rundel

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RESEARCH INTERESTS	Applied spatial statistics with a focus on biological and ecological systems, Bayesian statistics, computational methods, statistics and computing pedagogy	
EDUCATION	University of California, Los Angeles, Department of Statistics Ph.D. in Statistics, 2012 M.S. in Statistics, 2008 Dissertation Topic: Bayesian Methods for Spatial Assignment of Migratory Birds Advisors: Jan de Leeuw and John Novembre California Institute of Technology B.S. in Biology, 2003	
EMPLOYMENT	Assistant Professor of the Practice Department of Statistical Science, Duke University	June 2015 - Present
	Visiting Assistant Professor / Lecturer Department of Statistical Science, Duke University	January 2012 - May 2015
	Postdoctoral Associate Department of Statistical Science, Duke University	July 2012 - April 2014
	Graduate Student Researcher Novembre Lab, UCLA	September 2010 - December 2011
	Senior Statistical Consultant Statistical Consulting Center, UCLA	March 2009 - December 2011
	Graduate Teaching Assistant Dept. of Ecology and Evolutionary Biology, Dept. of Statistics, UCLA	September 2006 - July 2010
TEACHING	Sta 30 - Statistics and Quantitative Literacy - Fa 12 Sta 102 - Introductory Biostatistics - Sp 13 , Sp 14 , Fa 14 , Sp 15 , Fa 15 , Sp 16 , Su 16 Sta 111 - Probability and Statistical Inference - Su 14 Sta 112 - Better Living through Data Science - Fa 16 Sta 230 - Probability - Fa 12 , Sp 14 Sta 323 - Statistical Computing - Sp 16 , Sp 17 , Sp 18 Sta 444 / 644 - Spatio-Temporal Modeling - Sp 17 , Sp 18 Sta 523 - Statistical Programming - Fa 14 , Fa 15 , Fa 16 , Fa 17	

ONLINE TEACHING	Coursera - Statistics with R Specialization Bayesian Statistics Statistics with R Capstone	
PUBLICATIONS	<p>Cetinkaya-Rundel M., Rundel C.W. (2017) <i>Infrastructure and tools for teaching computing throughout the statistical curriculum</i>. The American Statistician. 72 (1), 58 - 65.</p> <p>Rundel C.W., Schliep E.M., Holland D., Gelfand A. (2015) <i>A data fusion approach for spatial analysis of speciated PM_{2.5} across time</i>. Environmetrics. 26 (8), 515 - 525.</p> <p>Rundel C.W., Wunder M., Alvarado A.H., Ruegg K., Harrigan R., Schuh A., Jeffrey K., Siegel R., DeSante D.F., Smith T.B., Novembre J. (2013) <i>Novel statistical methods for integrating genetic and stable isotope data to infer individual-level migratory connectivity</i>. Molecular Ecology. 22 (16), 4163 - 4176.</p> <p>de Bocanegra H.T., Rostovsteva D., Cetinkaya M., Rundel C.W., Lewis C. (2011). <i>Quality of reproductive health services to limited English proficient patients</i>. Journal of Health Care for the Poor and Underserved, 22 (4), 1167 - 1178.</p> <p>Walker D.W., Muffat J, Rundel C.W., Benzer S. (2006). <i>Overexpression of a Drosophila Homolog of Apolipoprotein D Leads to Increased Stress Resistance and Extended Lifespan</i>. Current Biology, 16 (7), 674 - 679.</p>	
MAGAZINES	<p>Rundel, C.W., Cetinkaya-Rundel M. (2016) La Quinta is Spanish for next to Denny's, Chance 29 (2), 53 - 57</p> <p>Rundel C.W. (2002) <i>Genes, Aging, and the Future of Longevity</i> Engineering & Science, 65 (4), 36 - 40.</p>	
TALKS	ICOTS10 2018 (Workshop) Teaching Data Science, Reproducibly	July 2018
	ISBA World Meeting 2018 (Short Course) Reproducible Computing	June 2018
	Joint Statistical Meetings 2017 (Invited) Moving Away from Ad Hoc Statistical Computing Education	August 2017
	UseR! 2017 (Tutorial) Data Carpentry: Open and Reproducible Research with R	July 2017
	Joint Statistical Meetings 2016 (Invited) Statistical Computing as an Introduction to Data Science	August 2016
	UseR! 2016 Continuous Integration and Teaching Statistical Computing with R	July 2016
	Joint Statistical Meetings 2015 Teaching statistical computing leveraging the github ecosystem	August 2015
	UseR! 2015 Teaching R using the github ecosystem	July 2015
	Data Analytics in Business and Social Science Seminar, Duke SSRI Geospatial data and the R ecosystem	April 2015
	Joint Statistical Meetings 2014 A Data Fusion Approach for Space-Time Analysis of Speciated PM_{2.5}	August 2014
	Duke Dept of Statistical Science Seminar	February 2014

[Using GPUs to improve the computational efficiency of Gaussian process models](#)

Joint Statistical Meetings 2013 August 2013

[GPUs, linear algebra, and efficient computing for Gaussian process models](#)

UseR! 2013 July 2013

[Leveraging GPU libraries for efficient computation of Gaussian process models in R](#)

Joint Statistical Meetings 2012 August 2012

[Leveraging GPU Libraries for Efficient Computation of Bayesian Spatial Assignment Models in R](#)

UseR! 2012 June 2012

[rgeos: spatial geometry predicates and topology operations in R](#)

Joint Statistical Meetings 2011 August 2011

[Spatial Models for Bird Origin Assignment Using Genetic and Isotopic Data](#)

SERVICE DSS Master's Advisory Committee Fall 2017 - present

[Duke's Information Technology Advisory Council](#) Fall 2017 - present

DSS Computing Committee Summer 2014 - present
Chair, Spring 2017 - present

ASA DataFest Fall 2011 - present
Co-organizer

Bayes Impact at Duke Fall 2014 - Spring 2016
Scientific Registry of Transplant Recipients
Motion Math

SOFTWARE [ghclass](#): Library for managing classroom and assignment related tasks on github.
[rgeos](#): R interface to the Geometry Engine, Open Source (GEOS) library.
[isoscatR](#): R package for smoothed and continuous assignment testing (SCAT) of genetic samples
[timezone](#): A small R package for finding timezone names from geographic coordinates
[RcppGP](#): Tools for efficiently working with Gaussian Processes in R / C++
[mapnik](#): [parser](#) and [generator](#) for the [carto](#) map style language.

MEMBERSHIPS American Statistical Association
International Society for Bayesian Analysis