

- EXPERIENCE** *Postdoctoral Fellow*, Biostatistics, Harvard University Summer 2010 - Present
Advisor: [Christopher D Barr](#).
Research: Bayesian and computational methods, applications in health policy.
Teaching: Co-instructor for graduate level Bayesian Statistics course.
- Statistician, Trainee* Summer 2007 / 2008
US Environmental Protection Agency. Arlington, VA.
- EDUCATION** *Ph.D.*, Statistics, UCLA June 2010
Advisor: [Rick Paik Schoenberg](#).
Research: point processes, environmental applications, frequentist and computationally intensive methods.
- Bachelor of Science*, Mathematics, U. of Minnesota May 2006
Summa Cum Laude, Physics Minor.
- RESEARCH PAPERS**
- Barr CD, **Diez DM**, Wang Y, Samet JM, and Dominici F. 2012. Comprehensive smoking bans and acute myocardial infarction among Medicare enrollees in 387 U.S. counties: 1999 to 2008. Accepted to *American Journal of Epidemiology*.
- Levy J, **Diez DM**, Dou Y, Barr CD, and Dominici F. 2012. Differential toxicity of fine particulate matter constituents: Bridging epidemiologic and risk assessment perspectives. Accepted to *American Journal of Epidemiology*.
- Diez DM**, Schoenberg FP, and Woody CD. 2012. [Algorithms for computing spike time distance and point process prototypes with application to feline neuronal responses to acoustic stimuli](#). *Journal of Neuroscience Methods* 203(1):186-192.
- Nichols K, Schoenberg FP, Keeley JE, Bray A, **Diez DM**. 2011. [The application of prototype point processes for the summary and description of California wildfires](#). *Journal of Time Series Analysis* 32(4):420-429.
- Nairn-Birch N, **Diez DM**, Eslami E, Macias Fauria M, Johnson E, Schoenberg FP. 2011. [Simulation and Estimation of Probabilities of Phases of the Pacific Decadal Oscillation](#). *Environmetrics* 22(1):79-85.
- Diez DM**, Dominici F, Zarubiak D, Levy JI. Statistical approaches for source attribution for continuously-monitored air pollutants at Los Angeles International Airport. Submitted.
- Barr CD and **Diez DM**. On the sizes of Voronoi regions in a spatial network designed by an inhomogeneous Poisson process. Submitted.
- Diez DM**. Building R packages: from start to submission. [Accompanying open source lecture slides and videos are available at RFunction.com](#). In preparation.
- Barr CD, **Diez DM**, Dou Y, Wang Y, Bell ML, Dominici F, Peng RD. Identifying the most harmful chemical components of fine particulate air pollution in the US: a Bayesian variable selection approach. In preparation.

SOFTWARE

Proficient: [R \(statistical software\)](#).
Moderate: PHP with MySQL, HTML, CSS, Excel.
Beginner: Python, C/C++.

Diez DM, Barr CD, and Çetinkaya-Rundel M. [openintro](#). Data sets and supplements for the OpenIntro project. Latest update in March 2012.

Diez DM and Christou N. [stockPortfolio](#). A package for stock portfolio modeling and management. Latest update in March 2012.

Diez DM. [OIsurv](#). Survival in R (tutorial supplement). February 2012. See also: [Survival Analysis in R \(tutorial\)](#).

Barr CD, Gerke TA, **Diez DM**. [voronoi](#). Methods and applications related to Voronoi tessellations. Latest update in August 2011.

Diez DM. [pesticides](#). Data for an analysis of single serving and composite pesticide residue measurements. November 2010.

Diez DM, Tranbarger KE and Schoenberg FP. [ppMeasures](#). Package reflecting dissertation work in point pattern distances and prototypes. May 2010.

TEACHING

Co-instructor, with [Francesca Dominici](#) Fall 2010, Fall 2011
Harvard School of Public Health. Boston, MA.
Graduate level Bayesian Statistics course (Biostat 249).

AP Readiness Instructor Fall 2009 - Spring 2010
Prepare high school students for the AP statistics exam. Los Angeles, CA.

Teaching Assistant Fall 2007 - Spring 2008, Fall 2009, Spring 2010
UCLA Statistics. Los Angeles, CA.
[Course materials available at \[ddiez.com\]\(http://ddiez.com\).](#)

Teaching Assistant Fall 2003 - Spring 2006
U. of MN Talented Youth Math Program. Minneapolis, MN.

OPENINTRO openintro.org

DM Diez and CD Barr founded OpenIntro in 2009 as a project to reduce costs and improve quality in education through innovative, free products.

Diez DM, Barr CD, and Çetinkaya-Rundel M. *OpenIntro Statistics* (2011 First Edition, 2010 Preliminary Edition). An open source textbook used at Harvard, Princeton, Duke, USC, and other universities. [Free PDF online](#) and [paperback on Amazon](#).

Diez DM. openintro.org (website). Responsible for OpenIntro website construction, including complete and free [online course management software](#). Features were discussed and planned with CD Barr and OpenIntro staff. Site designed by M Patel.

Diez DM. [Survival Analysis in R](#). Tutorial for applying basic survival analysis methods in R using the survival package.

CITIZENSHIP

USA.