

EDUCATION	University of California, Los Angeles, Department of Statistics	
	Ph.D. in Statistics, 2011	
	M.S. in Statistics, 2008	
	Dissertation: Estimating the impact of air pollution using small area estimation	
	Advisor: Jan de Leeuw	
	New York University, Leonard N. Stern School of Business	
	B.S. in Actuarial Science, Minor in Mathematics, 2004	
ACADEMIC APPOINTMENTS	Associate Professor of the Practice Duke University - Department of Statistical Science	July 2016 - present
	Director of Undergraduate Studies Duke University - Department of Statistical Science	July 2015 - present
	Assistant Professor of the Practice Duke University - Department of Statistical Science	July 2011 - July 2016
	Lecturer University of California, Los Angeles - Department of Statistics	June 2009 - June 2011
PUBLICATIONS: BOOKS	<ol style="list-style-type: none"> 1. Diez D.M., Barr C.D. & Çetinkaya-Rundel M. <i>OpenIntro: Statistics (Third Edition)</i>. 2015. Releases at openintro.org. 2. Diez D.M., Barr C.D., Çetinkaya-Rundel M., Dorazio, L. <i>OpenIntro: Advanced High School Statistics (First Edition)</i>. 2015. Releases at openintro.org. 3. Diez D.M., Barr C.D. & Çetinkaya-Rundel M. <i>OpenIntro: Introductory Statistics with Randomization and Simulation (First Edition)</i>. 2014. Releases at openintro.org. 	
PUBLICATIONS: PEER REVIEWED & INVITED PAPERS	<ol style="list-style-type: none"> 4. Feldblum J. T., Wroblewski E. W., Rudicell R. S., Hahn B. H., Paiva T., Çetinkaya-Rundel M., Pusey, A. E., & Gilby, I. C. (2014) <i>Sexually Coercive Male Chimpanzees Sire More Offspring</i>. Current Biology. In print. doi: 10.1016/j.cub.2014.10.039. 5. Baumer B., Çetinkaya-Rundel M., Bray A., Loi L., Horton N. (2014) <i>R Markdown: Integrating A Reproducible Analysis Tool into Introductory Statistics</i>. Technology Innovations in Statistics Education, 8(1). 6. Çetinkaya-Rundel M., Diez D.M., Barr C.R. (2013) <i>OpenIntro Statistics: an Open-source Textbook</i>. Technology Innovations in Statistics Education 7.3. 7. Çetinkaya-Rundel M., Diez D.M., Barr C.R. (2013) <i>Response: C-RDB</i>. Technology Innovations in Statistics Education 7.3. 8. Gould R., and Çetinkaya-Rundel M. <i>Teaching Statistical Thinking in the Data Deluge</i>. Mit Werkzeugen Mathematik und Stochastik lernen Using Tools for Learning Mathematics and Statistics. Springer Fachmedien Wiesbaden, 2014. 377-391. 9. Kosins A.M., Scholz T., Çetinkaya M., Evans G.R. (2013). <i>Evidence-based value of subcutaneous surgical wound drainage: the largest systematic review and meta-analyses</i>. Plastic and reconstructive surgery. doi: 10.1097/PRS.0b013e3182958945. 10. de Bocanegra H.T., Rostovsteva D., Çetinkaya 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. 	

PUBLICATIONS: (* indicates undergraduate students)

- SUBMITTED PAPERS 11. Shapiro, H.*, **Çetinkaya-Rundel M.**, Canelas, D., Wyman-Roth, N. *Understanding the Massive Open Online Course Student Experience through Text Analysis of Interviews*. Computers & Education.

PUBLICATIONS: (* indicates undergraduate students)

- PAPERS IN PREPARATION 12. Bean S., Bentley R., Scanlon M.*, **Çetinkaya-Rundel M.** *Development of a Case-Based Measure of Pathology Resident Performance: the trainee review field*.
13. Weishampel, A.*, **Çetinkaya-Rundel M.** *Identifying the Characteristics that Predict a Student's Success and Completion of a Massive Open Online Course*. Journal of Statistics Education.

PUBLICATIONS:
OTHER

14. Gould R., **Çetinkaya-Rundel M.**, Zieffler A. (2013 - present) [Citizen-Statistician blog](#)
15. Gould R., Baumer, B., **Çetinkaya-Rundel M.**, Bray A. (2014) [Big Data Goes to College](#), AMSTAT News. Issue 444.
16. Behseta S., **Çetinkaya-Rundel M.** (2014) [Interview with Jim Berger](#), Chance Magazine. Vol. 27, No. 2.
17. McClintock S., **Çetinkaya-Rundel M.**, Stangl D.K. (2014) [A Classroom Project for Generation Z](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 27, No. 4.
18. Bray A., **Çetinkaya-Rundel M.**, Stangl D.K. (2014) [Five Concrete Reasons Your Students Should Be Learning to Analyze Data in the Reproducible Paradigm](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 27, No. 3.
19. Morgan K.L., **Çetinkaya-Rundel M.**, Stangl D.K. (2014) [Speed Dating: Exploring Initial Romantic Attraction](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 27, No. 2.
20. McClintock S., **Çetinkaya-Rundel M.**, Stangl D.K. (2014) [The Real Secret to Genius? Reading Between the Lines](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 27, No. 1.
21. Schutt R., Stangl, D.K., **Çetinkaya-Rundel M.** (2013) [Embracing the Ambiguity and Potential of Data Science](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 26, No. 4.
22. **Çetinkaya-Rundel M.**, Stangl D.K. (2013) [A Celebration of Data](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 26, No. 3.
23. **Çetinkaya-Rundel M.**, Morgan K.L., Stangl D.K. (2013) [Looking Good on Course Evaluations](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 26, No. 2.
24. Morgan K.L., **Çetinkaya-Rundel M.**, Stangl D.K. (2013) [The American Community Survey](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 26, No. 1.
25. **Çetinkaya-Rundel M.**, Stangl, D.K., Morgan K.L. (2012) [Making the Old New Again](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 25, No. 4.
26. **Çetinkaya-Rundel M.**, Stangl, D.K., Morgan K.L. (2012) [Exploring Google's Transparency Report](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 25, No. 2.
27. Stangl D.K., **Çetinkaya-Rundel M.**, Morgan K.L. (2012) [Uncounted Votes: A Case Study in Analyzing Aggregated Data](#), Chance Magazine Statistics Education Column, Taking a Chance in the Classroom. Vol. 25, No. 1.

PUBLICATIONS:
TECHNICAL
REPORTS

All reports can be found at <http://scc.stat.ucla.edu>.

28. Çetinkaya M. (2010). *Neonatal Candidiasis Risk Factors*.
29. Çetinkaya M. & Rundel C.W. (2010). *CVCB Antimicrobial Lock Therapy Study*.
30. Çetinkaya M. (2010). *Type 2 diabetes mellitus and melatonin levels*.
31. Çetinkaya M. (2010). *Carpinteria Childbearing Survey*.
32. Wilson B. & Çetinkaya M. (2009). *Surgery preference of orthopedic surgeons*.
33. Wilson B. & Çetinkaya M. (2009). *Thyroid cancer and iodine levels*.
34. Wilson B., Çetinkaya M. & Yajima M. (2009). *Executive Compensation*.
35. Çetinkaya M. & Rundel C.W. (2009). *Meta-analysis of the value of prophylactic drainage*.

HONORS &
AWARDS

ASA 2016 Waller Education Award. \$1,000.

Best Paper Award JSM 2015 Section on Teaching Statistics in the Health Sciences. \$500.

[David and Janet Vaughan Brooks Award for Teaching Excellence](#). Duke University, 2014. \$5,000.

Teaching Assistant of the Year Nominee. Department of Statistics, University of California, Los Angeles, 2008, 2009, 2010.

Graduated Cum Laude & Founders Day Honors Scholar. New York University, Leonard N. Stern School of Business, 2004.

GRANTS &
FELLOWSHIPS

[TIER Faculty Fellowships 2015-16](#). Haverford College. \$5,000.

Duke University BASS Connections Education & Human Development Grant for *Coursera and the Future of MOOCs*. (2013 - 2015). Role: Principal Investigator. Co-PI: Dorian Canelas (Department of Chemistry, Duke University). \$10,000 each year.

Duke University BASS Connections Education & Human Development Grant for *STEM For All*. (2015 - 2016). Role: Principal Investigator. Co-PI: Genna Miller (Department of Economics, Duke University). \$15,000.

Duke University CIT Grant for *Developing the MOOC: Data Analysis and Statistical Inference* (2013-2014). \$10,000.

Duke Collaborative Center Grant for *Women and Increasing STEM-Efficacy (W-ISE) pilot project*. (2013) \$20,000. Role: Principal Investigator. Co-PI: Genna Miller (Department of Economics, Duke University).

[Team-Based Learning Course Design Fellowship](#). Center for Instructional Technology, Duke University, 2012. \$1,000.

[Collegium of University Teaching Fellowship](#). Office of Instructional Development, University of California, Los Angeles, 2009.

INVITED TALKS

1. Çetinkaya-Rundel. *Integrating reproducibility into the undergraduate statistics curriculum*. Joint Statistical Meetings. Chicago, IL. August 2016.
2. Çetinkaya-Rundel. *Bayesian baby steps*. OPRE, Washington, DC. April 2016.
3. Çetinkaya-Rundel. *Incorporating visualization into statistics education*. Duke University. Durham, NC. March 2016.
4. Çetinkaya-Rundel. *Making your research reproducible with Project TIER, R, and GitHub*. Duke University. Durham, NC. February 2016.

5. Çetinkaya-Rundel. *Making your research reproducible: Documenting and automating your data analysis in R*. UNC L.L. Thurstone Psychometric Laboratory Methods Forum. Chapel Hill, NC. January 2016.
6. Çetinkaya-Rundel. *Teaching to, and learning from, the masses*. Joint Statistical Meetings. Seattle, WA. August 2015.
7. Çetinkaya-Rundel. *Expanding R Exposure through Early Introduction in the Undergraduate Curriculum*. R Summit & Workshop. Copenhagen, Denmark. June 2015.
8. Çetinkaya-Rundel. *Coursera and the Future of MOOCs*. Duke Librarys First Wednesday forum. Durham, NC. May 2015.
9. Çetinkaya-Rundel, M., van Ginhoven, S. *Data Expedition: Exploring / Modeling / Predicting / Understanding Paintings in Paris*. iiD Data Science Series. Durham, NC. April 2015.
10. Çetinkaya-Rundel. *Bayesian baby steps*. VA CSP Biostatistics Subdomain: April Methodology Call. April 2015.
11. Çetinkaya-Rundel. *There and back again: Data Analysis and Statistical Inference*. CIT LTC. Durham, NC. March 2015.
12. Çetinkaya-Rundel, M., van Ginhoven, S. *Data Expedition: Exploring / Modeling / Predicting / Understanding Paintings in Paris*. Duke Media Arts + Sciences Rendezvous. Durham, NC. January 2015.
13. Çetinkaya-Rundel, M. *Teaching data analysis through the lens of reproducibility*. Reproducible Science Hackathon: Curriculum & Workflow Development. NESCENT. Durham, NC. December 2014.
14. Çetinkaya-Rundel, M. *See you / see me: An interactive real-time online course*. Duke University CIT Showcase. Durham, NC. October 2014.
15. Çetinkaya-Rundel, M. *Panel on Teaching from Big Data*. eCOTS. May 2014.
16. Çetinkaya-Rundel, M. *Increasing the Visibility of Women in Statistics*. Women In Statistics Conference. Cary, NC. May 2014.
17. Çetinkaya-Rundel, M. *Statistical Modeling*. Duke University, guest lecture in Focus Mathematical Modeling course. Durham, NC. March 2014.
18. Çetinkaya-Rundel, M. *See you / see me: An interactive real-time online course*. Duke University CIT. Durham, NC. October 2013.
19. Çetinkaya-Rundel, M. *Statisticians work with the hottest models*. FOCUS Cluster Dinner Series at Duke University: What If? Explaining the Past/Predicting the Future. Durham, NC. October 2013.
20. Çetinkaya-Rundel M., Murphy, K. *Classroom Response Systems at Duke*. CIT Showcase at Duke University. Durham, NC. April 2013.
21. Vidra, R., Çetinkaya-Rundel M., Gauthier, D. *Integrating Team-Based Learning Across Disciplines: Ideas and Challenges*. CIT Showcase at Duke University. Durham, NC. April 2013.

PRESENTATIONS AND POSTERS

1. Çetinkaya-Rundel. *A first-year undergraduate data science course*. useR 2015. Palo Alto, CA. July 2016.
2. Çetinkaya-Rundel. *Using R, RStudio, and Docker for introductory statistics*. useR 2015. Aalborg, Denmark. July 2015.
3. Bray, A., Çetinkaya-Rundel. *Collaborative statistics education through OpenIntro and GitHub*. useR 2015. Aalborg, Denmark. July 2015. [poster]
4. Çetinkaya-Rundel, Horton, N. *Connecting data, analysis, and results using a reproducible framework*. United States Conference On Teaching Statistics. State College, PA. May 2015.
5. Çetinkaya-Rundel. *Raising better scientists*. Duke Tech Expo 2015. Durham, NC. April 2015.

6. Çetinkaya-Rundel. *Interactivity online and on-campus: Data Analysis and Statistical Inference*. Coursera Partners Conference. Orange County, CA. March 2015. [poster]
7. Çetinkaya-Rundel. *Data-driven pedagogy*. Coursera Partners Conference. Orange County, CA. March 2015.
8. Çetinkaya-Rundel. *DataFest - A Celebration of Data*. Analytics Forward Unconference. Durham, NC. March 2015.
9. Çetinkaya-Rundel, M. *Teaching to the Masses*. Joint Statistical Meetings. Boston, MA. August 2014.
10. Çetinkaya-Rundel, M., Bray, A. *Teaching data analysis in R through the lens of reproducibility*. useR. Los Angeles, CA. June 2014. [poster]
11. Çetinkaya-Rundel, M., Bray, A. *Planting Seeds of Reproducibility in the Introductory Statistics Course with R Markdown*. eCOTS. May 2014.
12. Çetinkaya-Rundel, M. *Teaching data analysis in R through the lens of reproducibility*. JSM 2013. Montreal, QC. August 2013.
13. Stangl, D. Çetinkaya-Rundel, M. *Transforming Introductory Statistics Education: A Flipped Classroom with Deliberate Practice and Team-Based Learning*. United States Conference On Teaching Statistics. Raleigh, NC. May 2013.
14. Vidra, R., Çetinkaya-Rundel M., Gauthier, D. *Integrating Team-Based Learning Across Disciplines: Ideas and Challenges*. Lilly Conference on College and University Teaching. Greensboro, NC. February 2013.
15. Çetinkaya-Rundel M., Bray, A. *Integrating R into Introductory Statistics*. Joint Statistical Meetings. San Diego, CA. August 2012.
16. Çetinkaya-Rundel M., Bray, A. *Integrating R into Introductory Statistics*. useR. Nashville, TN. June 2012.
17. Çetinkaya-Rundel M. *Getting involved with OpenIntro*. Joint Statistical Meetings. Miami, FL. August 2011.
18. Çetinkaya-Rundel M. *Small area estimation approach to estimating the association between traffic-generated air pollution and early childhood respiratory problems*. Joint Statistical Meetings. Vancouver, BC. August 2010.

TEACHING

Duke University

1. ARTSCI 101 - From Data to Insight Summer 2016
2. STA 102 - Introduction to Biostatistics Summer 2016
3. STA 101 - Data Analysis and Statistical Inference Spring 2016, Fall 2015, Spring 2015, Fall 2014, Fall 2013, Spring 2013, Fall 2012, Spring 2012, Fall 2011
4. STA 104 - Data Analysis and Statistical Inference (Online) Summer 2015, Summer 2014, Summer 2013
5. STA 112FS - Better Living Through Data Science Fall 2015, Fall 2014
6. FOCUS 195FS - Special Topics in Focus Fall 2015, Fall 2015, Fall 2014
7. STA 498 - Research Seminar in Statistical Science Spring 2014
8. STA 470/851 - Intro Statistical Consulting Fall 2013, Spring 2013, Fall 2012
9. STA 582 - DataFest Spring 2016
10. STA 771S - Teaching Statistics Spring 2016

Coursera

1. *Statistics with R Specialization*, available on demand, including the following courses: *Introduction to Probability and Data*, *Inferential Statistics*, *Linear Regression and Modeling*, *Bayesian Statistics*, *Statistics Capstone Project*

- | | |
|---|--|
| 2. Data Analysis and Statistical Inference | September 2014, February 2014,
March 2015, September 2015 |
| 3. Teaching Statistical Thinking, Part 1 | October 2014 |
| 4. Specialization in Reasoning, Data Analysis and Writing | January 2015 |

University of California, Los Angeles

- | | |
|---|--|
| 5. Stats 10 - Introduction to Statistical Reasoning | Spring 2011, Winter 2011 (Extension),
Fall 2010 (Extension), Summer 2010, Summer 2009 |
| 6. Stats 112 - Statistical Methods for Social Sciences | Winter 2011 |
| 7. Stats 98T - More Doctors Smoke Camels (Seminar) | Spring 2010 |
| 8. AP Readiness - Statistics | September 2009 - May 2011 |
| 9. Statistical Consulting Center Mini-courses | April 2009 - June 2011 |

SOFTWARE

1. **Çetinkaya-Rundel, M.**, Cohen, B. (2014) [Applets for statistics education](#).
2. Diez, D.M., Barr, C.D. & **Çetinkaya-Rundel, M.** (2012). [openintro](#): Open Intro data sets and supplement functions. R package version 1.4.

SERVICE TO
PROFESSION

ASA Council of Sections Representative for the Section on Statistical Computing, 2016 - 2018
 ASA Statistical Commons Committee, 2015 - present
 ASA DataFest Steering Committee, 2014 - present
 AP Statistics Test Development Committee, June 2015 - present
 ScienceOpen Editorial Board Member, 2014 - present
 Local organizer for the inaugural Women In Statistics conference
 Journal Reviews: PeerJ, Statistics, Politics, and Policy, The American Statistician, Journal of Statistical Education
 Book Reviews: Cambridge University Press, Chapman & Hill

UNIVERSITY &
DEPARTMENT
SERVICE

ASA DataFest@Duke Organizer, 2012 - present
 Faculty Advisor for the Statistical Science Undergraduate Majors Union, 2013 - present
 Females Excelling More in Math, Engineering, & Science (FEMMES) Capstone, 2012 - present
 StatSci Graduate Orientation: Computing Bootcamp, 2015
 StatSci Graduate Orientation: Teaching Assistant Training, 2012 - present
 StatSci TA of the Year Award Committee, 2013 - present
 Online Learning Advisory Committee, 2012 - 2013

MENTORING

Undergraduate thesis advisees:
 1. Meghan Scanlon, 2014 - 2015, 2. Avi Moondra, 2014 - 2015, 3. Ted Li, 2012 - 2013
 Doctoral thesis committee:
 1. Ksenia Kyzuyrova, 2013 - present, Thais Paiva, 2012 - 2014, 3. Maria Terres, 2012 - 2014
 Independent study:
 1. Srinivas Emandi, 2016, 2. Kshipra Hemal, 2014 - 2015, 3. Anthony Weishampel, 2013 - 2015, 5. Heather Shapiro, 2013 - 2015, 6. Brittany Cohen, 2013 - 2014

Major advising, 2012 - present (12 students)
Minor advising, 2015 - present (36 students)
Pre-major Advising, 2012 - present (21 students)

ACADEMIC &
PROFESSIONAL
EXPERIENCE

Professional Educator
RStudio

July 2016 - present

Developing educational materials for the interactive data visualization R package Shiny as well as other RStudio products.

Senior Statistical Consultant
Statistical Consulting Center, UCLA

March 2009 - June 2011

Provided statistical consulting to academic researchers, graduate students, non-profit organizations and companies in addition to developing and teaching mini-courses.

Graduate Student Researcher
School of Public Health, UCLA

June 2008 - September 2009

Helped refine the underlying micro-simulation models for [health forecasting](#), contributed to health impact analyses and provided statistical consulting within the research group.

Actuarial Associate
Buck Consultants, New York, NY

June 2004 - August 2006

Prepared actuarial valuations, benefit calculations and cost estimates, worked on mergers and acquisitions, early retirement windows, benefit plan strategy and design, plan terminations, regulatory compliance and non-discrimination testing.

PROFESSIONAL
AFFILIATIONS

American Statistical Association
International Society for Bayesian Analysis