

# LucyD'Agostino McGowan

ld.mcgowan@vanderbilt.edu

## contact

2525 West End 11000  
Nashville, TN 37203

## website

www.lucymcgowan.com

## twitter

LucyStats

## github

LucyMcGowan

## orcid

0000-0001-7297-9359

## languages

proficient Italian literary,  
written, & oral skills

## programming

**dev:** R **use:** R, SAS,  
Stata, Python, ArcGIS

## defining attributes

goal-driven leadership,  
advanced analytic skills,  
strategic thinking,  
resourceful team player,  
sunny disposition ☀️,  
public  
speaking,  
organizational &  
communication skills

## Interests

propensity score analyses, **R** package development, observational study methods, predictive modeling, large-scale inference, R-Ladies, engaging beginners in **R** package development with rOpenSci through **contributr**, disparities research, community-based participatory research

## Education

**PhD** Student in Biostatistics, GPA 3.95

Vanderbilt University

**MS** in Biostatistics, December 2013, GPA 3.88

Washington University School of Medicine

Thesis: *Quantitative Assessment of the Community Research Fellows Training Program*

**BA** with Distinction and Highest Honors

University of North Carolina at Chapel Hill

Religious Studies: GPA 3.92 Romance Languages: GPA 3.86

## Research Experience

March 2017-present **RStudio**, upcoming internship under Jenny Bryan

2016-2017

**Vanderbilt University**, NIH Big Data to Knowledge Training Fellow

2015-2016

**Vanderbilt University**, Research Assistant, Department of Biostatistics and VA Tennessee Valley

Summer 2015

**Cleveland Clinic**, Graduate Fellow, Department of Quantitative Health Sciences

2012-2014

**Washington University School of Medicine**, Statistical Data Analyst promoted from Research Assistant, Department of Surgery, Division of Public Health Sciences

## Awards

2016 First Place, GSS Student Data Challenge, ASA Joint Statistical Meeting  
2016 Second Place, SPAAC Poster Competition, ASA Joint Statistical Meeting  
2016 Southern Startup Internship Program in Data Science (South BDHub)  
2015 First Place, GSS Student Data Challenge, ASA Joint Statistical Meeting  
2013 Best Contributed Paper in the Statistics and Data Analysis SAS Global Forum  
2013 First Place, Student Research Competition, 141st APHA Annual Meeting  
2013 Ellis R. Ott Scholarship: ASQ Statistics Division  
2012 Gertrude M. Cox Scholarship for Women in Statistics Honorable Mention

## Outreach

2017-2018 Vanderbilt Biostatistics Graduate Student Association, President  
2017-2018 Nashville ASA Student Chapter, President  
2016-2017 R-Ladies Nashville, co-founder  
2016-2017 Vanderbilt Graduate Student Council, President  
2016-2017 Vanderbilt Biostatistics Graduate Student Association, Vice President  
2016-2017 Nashville ASA Student Chapter, Vice President  
2015-2017 Tennessee Office of Refugees, Tutor  
2015 Scholarship of Teaching and Learning, Scholar

## Select Invited Presentations

### SAS Global Forum 2017

Oral Presentation

Lucy D'Agostino McGowan, "Streamline Your Workflow: Integrating SAS, LaTeX, and R into a Single Reproducible Document."

### SAS Global Forum 2016

Oral Presentation

Lucy D'Agostino McGowan, Robert A. Greevy, Jr, "Integrating SAS and R to Perform Optimal Propensity Score Matching."

### SAS Global Forum 2015

Oral Presentation

Lucy D'Agostino McGowan, Alice Toll, "Using PROC SURVEYREG and PROC SURVEYLOGISTIC to Assess Potential Bias."

### SAS Global Forum 2014

Oral Presentation

Lucy D'Agostino McGowan, Melody S. Goodman, Kimberly A. Kaphingst, "Using SAS/STAT® Software to Validate a Health Literacy Prediction Model in a Primary Care Setting."

## Contributed Presentations

### ENAR 2017

Oral Presentation

Lucy D'Agostino McGowan, Robert Alan Greevy, Jr, "Simplifying and Contextualizing Sensitivity to Unmeasured Confounding Tipping Point Analyses."

### useR!2017

Oral Presentation

Lucy D'Agostino McGowan, Nick Strayer, Jeff Leek, "papr: Tinder for pre-prints, a Shiny Application for collecting gut-reactions to pre-prints from the scientific community."

### ASA Joint Statistical Meeting 2017

Speed (Oral + Poster) Presentation

Lucy D'Agostino McGowan, Robert A. Greevy, Jr, "Contextualizing Sensitivity Analysis in Observational Studies: Calculating Bias Factors for Known Covariates."

### ASA Joint Statistical Meeting 2016

Poster

Lucy D'Agostino McGowan, Robert A. Greevy, Jr, "Practical Guidance and Tools for Rule-Out Sensitivity to Unmeasured Confounding Analyses."

### ASA Joint Statistical Meeting 2016

Oral Presentation

Ryan Jarrett, Lucy D'Agostino McGowan, "Assessing the Association Between Accident Injury Severity and NCAP Car Safety Ratings".

### ASA Joint Statistical Meeting 2015

Speed (Oral + Poster) Presentation

Lucy D'Agostino McGowan, Alice Toll, "Census Tract-Level Disparities: Examining Food Swamps and Food Deserts."

### 141st American Public Health Association Annual Meeting 2013

Poster

Lucy D'Agostino McGowan, Melody S. Goodman, "Developing County-Level Estimates of Racial Disparities in Obesity Using Multilevel Reweighted Regression."

### 141st American Public Health Association Annual Meeting 2013

Oral Presentation

Lucy D'Agostino McGowan, Melody S. Goodman, "Small Areal Estimation of Racial Disparities in Diabetes

Using Multilevel Reweighted Regression.”

### SAS Analytics 2013

Poster

Lucy D’Agostino McGowan, Patrick J. McGowan, “Mining Through Resumes: Utilizing SAS to Increase Efficiency and Objectivity in the Hiring Process.”

### Northeast SAS Users Group 2013

Poster

Lucy D’Agostino McGowan, “SAS ® for Budgeting an Ideal Wedding.”

### Northeast SAS Users Group 2013

Oral Presentation

Lucy D’Agostino McGowan, Melody S. Goodman, “Using PROC GLIMMIX and PROC SGPLOT to Demonstrate County-level Racial Disparities in Obesity in North Carolina.”

### SAS Global Forum 2013

Oral Presentation

Lucy D’Agostino McGowan, Melody S. Goodman, “Multilevel Reweighted Regression Models to Estimate County-Level Racial Health Disparities Using PROC GLIMMIX.”

## Peer-reviewed Publications

Roumie, C. L., Min, J. Y., **D’Agostino McGowan, Lucy**, Presley, C., Grijalva, C. G., Hackstadt, A. J., ... Griffin, M. R. (2017). Comparative Safety of Sulfonylurea and Metformin Monotherapy on the Risk of Heart Failure: A Cohort Study. *Journal of the American Heart Association*, 6(4), e005379.

**D’Agostino McGowan, Lucy**, Bullen, J. A., & Obuchowski, N. A. (2016). Location Bias in ROC Studies. *Statistics in Biopharmaceutical Research*, 00–00.

Drake, B. F., Brown, K., **D’Agostino McGowan, Lucy**, Haslag-Minoff, J., & Kaphingst, K. (2016). Secondary consent to biospecimen use in a prostate cancer biorepository. *BMC Research Notes*, 9(1), 346.

Kaphingst, K. A., Stafford, J. D., **D’Agostino McGowan, Lucy**, Seo, J., Lachance, C. R., & Goodman, M. S. (2015). Effects of racial and ethnic group and health literacy on responses to genomic risk information in a medically underserved population. *Health Psychology*, 34(2), 101–110.

Chen, Y.-H., **D’Agostino McGowan, Lucy**, Cimino, P. J., Dahiya, S., Leonard, J. R., Lee, D. Y., & Gutmann, D. H. (2015). Mouse Low-Grade Gliomas Contain Cancer Stem Cells with Unique Molecular and Functional Properties. *Cell Reports*, 10(11), 1899–1912.

**D’Agostino McGowan, Lucy**, Stafford, J. D., Thompson, V. L., Johnson-Javois, B., & Goodman, M. S. (2015). Quantitative Evaluation of the Community Research Fellows Training Program. *Frontiers in Public Health*, 3(1), 11.

Fisher, M. J., Loguidice, M., Gutmann, D. H., Listerick, R., Ferner, R. E., Ullrich, N. J., ... Liu, G. T. (2014). Gender as a disease modifier in neurofibromatosis type 1 optic pathway glioma. *Annals of Neurology*, 75(5), 799–800.

Griffey, R. T., Kennedy, S. K., **D’Agostino McGowan, Lucy**, Goodman, M., & Kaphingst, K. A. (2014). Is low health literacy associated with increased emergency department utilization and recidivism? *Academic Emergency Medicine : Official Journal of the Society for Academic Emergency Medicine*, 21(10), 1109–1115.

Diggs-Andrews, K. A., Brown, J. A., Gianino, S. M., **D’Agostino McGowan, Lucy**, Rubin, J. B., Wozniak, D. F., & Gutmann, D. H. (2014). Reply. *Annals of Neurology*, 75(5), 800–801.

Colditz, G. A., **D’Agostino McGowan, Lucy**, James, A. S., Bohlke, K., & Goodman, M. S. (2014). Screening for colorectal cancer: using data to set prevention priorities. *Cancer Causes & Control : CCC*, 25(1), 93–98.

**D’Agostino McGowan, Lucy**, Gennarelli, R., Lyons, S., & Goodman, M. (2013). Using Small-Area Analysis to Estimate County-Level Racial Disparities in Obesity Demonstrating the Necessity of Targeted Interventions. *International Journal of Environmental Research and Public Health*, 11(1), 418–428.