

# Lucy D'Agostino McGowan

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## EMPLOYMENT

- 2019-present **Wake Forest University**  
*Assistant Professor, Department of Mathematics and Statistics*
- 2018-2019 **Johns Hopkins Bloomberg School of Public Health**  
*Postdoctoral fellow with Jeffrey Leek*
- 2017 March-August **RStudio**  
*Internship under Jenny Bryan developing the 'googledrive' R package*
- 2016-2017 **Vanderbilt University**  
*NIH Big Data to Knowledge Training Fellow*
- 2015-2016, 2017-2018 **Vanderbilt University**  
*Research Assistant, Department of Biostatistics and VA Tennessee Valley*
- 2015 Summer **Cleveland Clinic**  
*Summer Graduate Fellow, Department of Quantitative Health Sciences*
- 2013 Summer **Graham Colditz Laboratory**  
*Summer Intern, Washington University School of Medicine*
- 2012-2014 **Washington University School of Medicine**  
*Research Assistant, Gutmann Research Laboratory, Department of Neurology*
- 2012-2014 **Washington University School of Medicine**  
*Statistical Data Analyst, Department of Surgery, Division of Public Health Sciences*

## EDUCATION

- PhD** in Biostatistics, May 2018 VANDERBILT UNIVERSITY  
*Thesis: Improving Modern Techniques of Causal Inference: Finite Sample Performance of ATM and ATO Doubly Robust Estimators, Variance Estimation for ATO Estimators, and Contextualized Tipping Point Sensitivity Analyses for Unmeasured Confounding*
- MS** in Biostatistics, December 2013 WASHINGTON UNIVERSITY SCHOOL OF MEDICINE  
*Thesis: Quantitative Assessment of the Community Research Fellows Training Program*
- BA** in Religious Studies and Romance Languages UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
*with Distinction and Highest Honors*

## GRANTS

### **Study of the Epidemiology of Pediatric Hypertension Registry (PI: Andrew South)**

*Wake Forest School of Medicine's Translational Research Initiative Joint Pilot Project*

Role: Co-investigator

2020-2021

### **Leadership and Character Course Redesign Grant**

*Wake Forest University Center for the Advancement of Teaching*

WFU Amount: \$1,000

Role: Course Designer

2020

### **A study of various methods to teach R programming**

*Wake Forest University Center for the Advancement of Teaching SoTL Seed Grant Fund*

WFU Amount: \$940

Role: Principle investigator

2019-2020

## INVITED PRESENTATIONS

### **ASA Joint Statistical Meeting 2021**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "Examining the Impact of Software Instruction on Completion of Data Analysis Tasks."

### **R-Ladies Baltimore 2021**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "Let's get meta: analyzing your R code with tidycode."

### **Wake Forest University BI and Analytics Meeting February 2021**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "Hill's Criteria for the Data Scientist: Incorporating Causal Inference Techniques."

### **ENAR 2020**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "Tools for analyzing R code the tidy way."

### **SDSS 2020**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "Best Practices for Teaching R A Randomized Controlled Trial."

### **ASA Joint Statistical Meeting 2020**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "The Ups and Downs of Communicating Complex Statistics."

### **JupyterCon 2020**

KEYNOTE

Lucy D'Agostino McGowan, "Equipping and empowering future data scientists with confidence, intuition, and communication skills."

### **CDC R Group 2020**

Lucy D’Agostino McGowan, “ConTESSA: A Shiny App to Help Quantify Contact Tracing Efficacy.”

**Wake Forest School of Medicine Methods Conference 2020**

ORAL PRESENTATION

Lucy D’Agostino McGowan, “Applied Demonstration of the tipr R Package.”

**Macalester College 2019**

KEYNOTE

Lucy D’Agostino McGowan, “There and back again, a data scientist’s tale.”

**ASA Joint Statistical Meeting 2019**

ORAL PRESENTATION

Lucy D’Agostino McGowan, “Challenges in Augmenting Randomized Trials with Observational Health Records.”

**ENAR 2018**

ORAL PRESENTATION

Lucy D’Agostino McGowan, Robert A. Greevy, Jr, “Exploring finite-sample bias in propensity score weights.”

**Data Day Texas 2018**

ORAL PRESENTATION

Lucy D’Agostino McGowan, “Making Causal Claims as a Data Scientist: Tips and Tricks Using R.”

**ASA Joint Statistical Meeting 2018**

ORAL PRESENTATION

Lucy D’Agostino McGowan, “Harnessing the Power of the Web via R Clients for Web APIs.”

**SAS Global Forum 2017**

ORAL PRESENTATION

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

**R-Ladies Nashville 2017**

ORAL PRESENTATION

Lucy D’Agostino McGowan, “An R + GitHub Journey.”

**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.”

## WORKSHOPS AND PANELS

### ENAR 2021

PANEL

Lucy D’Agostino McGowan, Caitlin Rivers, Eleanor Murray, Kareem Carr, Jeffrey Leek, “Communicating Complex Statistical Concepts to Collaborators, Stakeholders, and the General Public.”

### ASA K-12 Virtual Workshops 2020

WORKSHOP

Lucy D’Agostino McGowan and Shannon Ellis, “Using RStudio Cloud in the Classroom.”

### eCOTS 2020

PANEL

Laura Le, Kari Lock Morgan, Lucy D’Agostino McGowan, “Panel: Engaging Students during the COVID-19 Health Crisis.”

### NC School of Science and Math Data Science Panel 2020

PANEL

Lucy D’Agostino McGowan, “Data Science at Wake Forest University.”

### user!2020

WORKSHOP

Lucy D’Agostino McGowan and Malcolm Barrett, “Causal Inference in R.”

### R in Gouvernement Conference

WORKSHOP

Lucy D’Agostino McGowan and Malcolm Barrett, “Causal Inference in R.”

### ENAR 2019

WORKSHOP

Lucy D’Agostino McGowan, “Data Visualizations with ggplot2.”

### Women in Statistics and Data Science 2017

PANEL

Jenny Bryan, Mine Cetinkaya-Rundel, Lucy D’Agostino McGowan, Gabriela de Queiroz, Mine Dogucu, Katherine Scranton, Jennifer Thompson, “R-Ladies Panel: Improving gender diversity in a male-dominated community.”

## CONTRIBUTED PRESENTATIONS

### rstudio::global 2021

ORAL PRESENTATION

Lucy D’Agostino McGowan, “Designing Randomized Studies using Shiny.”

### ENAR 2017

ORAL PRESENTATION

Lucy D’Agositno 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.”

## PUBLICATIONS

^Indicates equal contributions

1. Fox M, Carr K, **D’Agostino McGowan L**, Murray E, Hidalgo B, Banack H (2021). “Will Podcasting and Social Media Replace Journals and Traditional Science Communication? No, but...” *American Journal of Epidemiology*.
2. Grantz KH, Lee EC, **D’Agostino McGowan L**, Lee KH, Metcalf CJE, Gurley ES, Lessler J (2021). “Maximizing and evaluating the impact of test-trace-isolate programs: A modeling study.” *PLoS medicine*, 18(4), e1003585.
3. ^Cohen JB, ^**D’Agostino McGowan L**, Jensen ET, Rigdon J, South AM (2021). “Evaluating sources of bias in observational studies of angiotensin-converting enzyme inhibitor/angiotensin II receptor blocker use during COVID-19: beyond confounding.” *Journal of Hypertension*, 39(4), 795.
4. **D’Agostino McGowan L**, Grantz KH, Murray E (2021). “Quantifying Uncertainty in Mechanistic Models of Infectious Disease.” *American Journal of Epidemiology*, 190(7), 1377-1385.
5. Fox MP, **D’Agostino McGowan L**, James BD, Lessler J, Mehta SH, Murray EJ (2020). “Concerns About the Special Article on Hydroxychloroquine and Azithromycin in High Risk Outpatients with COVID-19 by Dr. Harvey Risch.” *American Journal of Epidemiology*.
6. **D’Agostino McGowan L**, Kross S, Leek J (2020). “Tools for Analyzing R Code the Tidy Way.” *The R Journal*, 12(1), 226-242. doi: 10.32614/RJ-2020-011 (URL: <https://doi.org/10.32614/RJ-2020-011>).
7. Liberman JS, **D’Agostino McGowan L**, Greevy RA, Morrow JA, Griffin MR, Roumie CL, Grijalva CG (2020). “Mental health conditions and the risk of chronic opioid therapy among patients with rheumatoid arthritis: a retrospective veterans affairs cohort study.” *Clinical Rheumatology*, 1-10.
8. Griffin L, Carter M, D’Agostino Jr R, **D’Agostino McGowan L** (2019). “Comparative Effectiveness of Two Collagen-containing Dressings: Oxidized Regenerated Cellulose (ORC)/Collagen/Silver-ORC Dressing Versus Ovine Collagen Extracellular Matrix.” *Wounds: a compendium of clinical research and practice*, 31(11), E73.
9. Wickham H, Averick M, Bryan J, Chang W, **D’Agostino McGowan L**, François R, Golemund G, Hayes A, Henry L, Hester J, Kuhn M, Pedersen TL, Miller E, Bache SM, Müller K, Ooms J, Robinson D, Seidel DP, Spinu V, Takahashi K, Vaughan D, Wilke C, Woo K, Yutani H (2019). “Welcome to the tidyverse.” *Journal of Open Source Software*, 4(43), 1686. doi: 10.21105/joss.01686 (URL: <https://doi.org/10.21105/joss.01686>).
10. Singh DP, Gabriel A, Silverman RP, Griffin LP, **D’Agostino McGowan L**, D’Agostino Jr RB (2019). “Meta-analysis Comparing Outcomes of Two Different Negative Pressure Therapy Systems in Closed Incision Management.” *Plastic and Reconstructive Surgery Global Open*, 7(6).
11. Pun BT, Balas MC, Barnes-Daly MA, Thompson JL, Aldrich JM, Barr J, Byrum D, Carson SS, Devlin JW, Engel HJ, Esbrook CL, Hargett KD, Harmon LR, Hielsberg C, Jackson JC, Kelly TL, Kumar V, Millner L, Morse A, Perme CS, Posa PJ, Puntillo KA, Schweickert WD, Stollings JL, Tan A, **D’Agostino McGowan L**, Ely EW (2019). “Caring for critically ill patients with the ABCDEF bundle: results of the ICU liberation collaborative in over 15,000 adults.” *Critical Care Medicine*, 47(1), 3-14.

12. Murff HJ, Roumie CL, Greevy RA, Hackstadt AJ, **D’Agostino McGowan L**, Hung AM, Grijalva CG, Griffin MR (2018). “Metformin use and incidence cancer risk: evidence for a selective protective effect against liver cancer.” *Cancer causes & control : CCC*, 27(10), 1-10.
13. **D’Agostino McGowan L**, Roumie CL (2018). “Sulfonylureas as second line treatment for type 2 diabetes.” *BMJ*, 362.
14. Blume JD, **D’Agostino McGowan L**, Dupont WD, Greevy Jr RA (2018). “Second-generation p-values: Improved rigor, reproducibility, & transparency in statistical analyses.” *PloS one*, 13(3), e0188299.
15. Roumie CL, Min JY, **D’Agostino McGowan L**, Presley C, Grijalva CG, Hackstadt AJ, Hung AM, Greevy RA, Elasy T, Griffin MR (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.
16. **D’Agostino McGowan L**, Bullen JA, Obuchowski NA (2016). “Location bias in ROC studies.” *Statistics in Biopharmaceutical Research*, 8(3), 258-267.
17. Drake BF, Brown K, **D’Agostino McGowan L**, Haslag-Minoff J, Kaphingst K (2016). “Secondary consent to biospecimen use in a prostate cancer biorepository.” *BMC research notes*, 9(1), 346.
18. **D’Agostino McGowan L**, Stafford JD, Thompson VL, Johnson-Javois B, Goodman MS (2015). “Quantitative evaluation of the community research fellows training program.” *Frontiers in public health*, 3, 179.
19. Chen Y, **D’Agostino McGowan L**, Cimino PJ, Dahiya S, Leonard JR, Lee DY, Gutmann DH (2015). “Mouse low-grade gliomas contain cancer stem cells with unique molecular and functional properties.” *Cell reports*, 10(11), 1899-1912.
20. Kaphingst KA, Stafford JD, **D’Agostino McGowan L**, Seo J, Lachance CR, Goodman MS (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.
21. Griffey RT, Kennedy SK, **D’Agostino McGowan L**, Goodman M, Kaphingst KA (2014). “Is low health literacy associated with increased emergency department utilization and recidivism?” *Academic Emergency Medicine*, 21(10), 1109-1115.
22. Diggs-Andrews KA, Brown JA, Gianino SM, **D’Agostino McGowan L**, Rubin JB, Wozniak DF, Gutmann DH (2014). “reply.” *Annals of neurology*, 75(5), 800-801.
23. Fisher MJ, Loguidice M, Gutmann DH, Listernick R, Ferner RE, Ullrich NJ, Packer RJ, Tabori U, Hoffman RO, Ardern-Holmes SL, Hummel TR, Hargrave DR, Bouffet E, Charrow J, Bilaniuk LT, Balcer LJ, **D’Agostino McGowan L**, Liu GT (2014). “Gender as a disease modifier in neurofibromatosis type 1 optic pathway glioma.” *Annals of Neurology*, 75(5), 799-800.
24. Colditz GA, **D’Agostino McGowan L**, James AS, Bohlke K, Goodman MS (2014). “Screening for colorectal cancer: Using data to set prevention priorities.” *Cancer Causes & Control*, 25(1), 93-98.
25. **D’Agostino McGowan L**, Gennarelli RL, Lyons SA, Goodman MS (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.

# COMPUTING

**Expert:** R, Shiny, Git/GitHub, L<sup>A</sup>T<sub>E</sub>X, HTML/CSS, SAS

**Familiar:** Python, Stata, ArcGIS

# SOFTWARE

## Author & Maintainer

**ConTESSA:** A Shiny Application developed in collaboration with the John Hopkins Infectious Disease Dynamics group to help contact tracing program managers.

**pald:** An R package to calculate partitioned local depth (PaLD) probabilities for clustering

**tipr:** An R package with tools for conducting tipping point sensitivity analyses.

**googledrive:** An R package that interfaces with Google Drive from R, allowing users to seamlessly manage files on Google Drive from the comfort of their console.

**contributr:** A Shiny Application developed in collaboration with Maelle and rOpenSci for finding beginner GitHub issues to contribute to.

**papr:** Tinder for pre-prints, a Shiny Application developed in collaboration with Jeff Leek and Nick Strayer for collecting gut-reactions to pre-prints from the scientific community

## Author

**datasauRus:** An R package made in collaboration with Steph Locke consisting of The Datasaurus Dozen, a set of datasets with the same summary statistics. They retain the same summary statistics despite having radically different distributions. The datasets represent a larger and quirkier object lesson that is typically taught via Anscombe's Quartet.

**meetupr:** An R package authored and maintained by R-Ladies to interface with the Meetup API

## Contributer

**cowsay:** An R package that allows printing of character strings as messages/warnings/etc. with ASCII animals, including cats, cows, frogs, chickens, ghosts, and more.

**RJafroc:** An R package for analyzing data acquired using the Receiver Operating Characteristic paradigm and its extensions.

# TEACHING EXPERIENCE

## Wake Forest University

- (Spring) STA 363: Statistical Learning (2020)
- (Fall) STA 312: Linear Models (2020)
- (Fall) STA 363: Statistical Learning (2020)
- (Fall) STA 212: Statistical Modeling (2019)



## Vanderbilt University

- Frank Harrell's Regression Modeling Strategies (2017)
- Statistical Collaboration in Health Sciences Teaching Assistant (2015)
- Modern Regression Analysis Teaching Assistant (2015)
- Principles of Modern Biostatistics Teaching Assistant (2015)

## Washington University in St. Louis

- Introduction to SAS Teaching Assistant (2013)
- Introduction to Clinical Epidemiology Teaching Assistant (2013)
- Randomized Controlled Trials Teaching Assistant (2013)

## Online Courses

- Measuring and Maximizing Impact of COVID-19 Contact Tracing (2020-2021)
- Creating dynamic dashboards with the shinydashboard R package (2019)
- Understanding data and statistics in the medical literature (2019)
- ggplot2 in 2: Learn the ggplot2 R package in 2 hours (2019)

# STUDENT ENGAGEMENT

## Undergraduate Theses

- Noah Edwards-Thro, *Clustering NBA data* (2021-2022)
- Jonathan Trattner, *Tools for Designing Online Randomized Trials Using the Shiny Framework* (2020-2021)
- Nuri Park, *Best Practices for Teaching R: A Randomized Controlled Trial* (2020-2021)
- Hannah Mendoza, *The Impact of Disclosing Uncertainty on Decision Making: A Randomized Controlled Trial* (2020)

## Independent Studies

- Iris Liu, *Building a Dashboard and Gaining Insight into Reynolda Museum Data*, URECA Wake Forest Research Fellowship (Funded Research) (Summer 2020)
- Sofia Blankenship, Independent Study Building a Shiny Application (Course Credit) (Fall 2019)
- Sophia Fang, *Understanding Statistics and Data in The Medical Literature Course Update* (2020)
- Hannah Luebbering, *Studies on Teaching Programming: A Literature Review* (2020)

# PROFESSIONAL ACTIVITIES

## Internal Service

2020-2021 Peer Learning Community Facilitator, WFU Center for Advancement of Teaching

2020-2021 Wake Forest College Covid-19 Steering Committee Working Group

2020-2021 Statistics Hiring Committee Member  
 2020-2021 Committee member, Postdoc Hiring Committee  
 2020 Math Club Faculty Co-Chair  
 2019-2020 Faculty advisor, Wake Forest University ASA Student Chapter  
 2019-2020 Founding committee member, DataFest  
 2019-2020 Committee member, Statistics Curriculum Committee  
 2019-2020 Founder, Reynolda Data Science Lab

## Professional Service

2021 Chair, ASA Committee on Women in Statistics  
 2020-2021 Committee member, ENAR Program Committee  
 2020-2021 Member, ENAR Regional Advisory Board  
 2020-2021 Committee of Presidents of Statistical Societies (COPSS) Communications Officer  
 2020 Vice-chair, Chair-elect, ASA Committee on Women in Statistics  
 2019-2021 ASA Council of Sections Representative, Section on Statistical Computing  
 2019-2021 Associate Editor (Social Media), The American Journal of Epidemiology  
 2019-2021 Committee member, ASA Computing and Graphics Student Paper Award Selection Committee  
 2019 Committee member, ASA Committee on Women in Statistics  
 2019 Interim Program Chair, ASA Statistics Communication Interest Group  
 2018 Committee member, Women in Statistics and Data Science Service Project  
 2017-2018 President, Nashville ASA Student Chapter  
 2017 Panelist, Inaugural ASA Student Chapter Workshop  
 2016-2017 Vice President, Co-founder, Nashville ASA Student Chapter  
 2014 Abstract reviewer, Applied Public Health Statistics, American Public Health Association

## Referee

*Biostatistics, The American Statistician, BMJ Open, rOpenSci, American Journal of Epidemiology, Statistics in Medicine, Journal of the Royal Statistical Society, Nature Biotechnology, PLOS One and Observational Studies*

## OUTREACH

2019-2021 Casual Inference Podcast co-host, sponsored by the American Journal of Epidemiology  
 2017-2018 President, Vanderbilt Biostatistics Graduate Student Association  
 2017-2018 Abstract reviewer, R-Ladies Global

2016-2019 Co-founder, Co-organizer, R-Ladies Nashville  
 2016-2017 President, Vanderbilt Graduate Student Council  
 2016-2017 Vice President, Vanderbilt Biostatistics Graduate Student Association  
 2016 useR Student Volunteer  
 2015-2016 Tutor, Tennessee Office of Refugees  
 2015 Scholar, Scholarship of Teaching and Learning  
 2014-2015 Vice President of Social Affairs, Vanderbilt Graduate Student Council

## AWARDS

2020 JupyterCon Invited Keynote Speaker  
 2019 Winning team, ASA Leadership Challenge  
 2018 Vanderbilt Biostatistics Travel Award (ENAR)  
 2017 NASA Datanauts, Class of 2017  
 2017 useR!2017 Young Academic Scholarship  
 2017 Caucus for Women in Statistics Travel Award  
 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)  
 2016 Vanderbilt Commodore Award in Biostatistics  
 2015 First Place, GSS Student Data Challenge, ASA Joint Statistical Meeting  
 2015 Prezi Student Ambassador  
 2014 SAS Student Scholar, PharmaSUG  
 2014 SAS Student Ambassador, SAS Global Forum 2014  
 2013 First Place, Student Research Competition, 141st APHA Annual Meeting  
 2013 Ellis R. Ott Scholarship: ASQ Statistics Division  
 2013 Best Contributed Paper in the Statistics and Data Analysis Section at SAS Global Forum  
 2013 SAS Student Scholar, NESUG  
 2013 SAS Student Ambassador, SAS Global Forum 2013  
 2012 Gertrude M. Cox Scholarship for Women in Statistics Honorable Mention  
 2012 NIAF Jim Cantalupo Scholarship  
 2011-2012 National Society of Leadership and Success  
 2011 Dunlevie Honors Undergraduate Research Award  
 2010 Programma Ponte Scholarship  
 2010 Newman Scholar  
 2009-2012 UNC Dean's List  
 2008-2012 UNC Public Service Scholar

## PRESS

**Professors Carry Remote Learning Learned into New Semester** (2021) *Spectrum News*. Available at: <https://spectrumlocalnews.com/nc/charlotte/news/2021/01/14/professors-carry-lessons-learned-into-new-semester>

**Celebrating Women in Statistics** (2021) *Amstat News Magazine*. Available at: <https://magazine.amstat.org/blog/2021/03/01/lucy-dagostino-mcgowan/>

**Quantifying vaccine effectiveness: How to properly report breakthrough cases** (2021) *BBC Radio Interview with Stephen Nolan*. Available at: <https://web.archive.org/web/20210725064237/https://www.bbc.co.uk/sounds/play/m000y7cq>

**Alarmed about breakthrough COVID cases? Here's how experts say to read the numbers** (2021) *News and Observer*. Available at: [https://amp.newsobserver.com/article253223608.html?\\_\\_twitter\\_\\_impression=true](https://amp.newsobserver.com/article253223608.html?__twitter__impression=true)

**You're probably reading breakthrough COVID-19 case numbers the wrong way. Here's why** (2021) *CBS Raleigh*. Available at: <https://www.cbs17.com/news/north-carolina-news/youre-probably-reading-breakthrough-covid-19-case-numbers-the-wrong-way-heres-why/>

**Wake Forest researcher suggests looking at breakthrough cases differently** (2021) *Winston-Salem Journal*. Available at: [https://journalnow.com/news/local/wake-forest-researcher-suggests-looking-at-breakthrough-cases-differently/article\\_63f199bc-fdeb-11eb-a5f3-cff52aab66fa.html](https://journalnow.com/news/local/wake-forest-researcher-suggests-looking-at-breakthrough-cases-differently/article_63f199bc-fdeb-11eb-a5f3-cff52aab66fa.html)

**Lucy D'Agostino McGowan: The essential stats on breakthrough cases** (2021) *Winston-Salem Journal*. Available at: [https://journalnow.com/opinion/columnists/lucy-dagostino-mcgowan-the-essential-stats-on-breakthrough-cases/article\\_95b8860e-004d-11ec-b022-77e8b9178b2a.html](https://journalnow.com/opinion/columnists/lucy-dagostino-mcgowan-the-essential-stats-on-breakthrough-cases/article_95b8860e-004d-11ec-b022-77e8b9178b2a.html)

**Reports on breakthrough COVID cases causing confusion about vaccine effectiveness** (2021) *Wake Forest News*. Available at: <https://news.wfu.edu/2021/08/11/reports-on-breakthrough-covid-cases-causing-confusion-about-vaccine-effectiveness/>

**Wake Forest researcher: There aren't a lot of vaccinated people in the hospital** (2021) *Hickory Daily Record*. Available at: [https://hickoryrecord.com/wake-forest-researcher-there-arent-a-lot-of-vaccinated-people-in-the-hospital/article\\_d7555b28-feae-11eb-b9c4-972aad27fb50.html](https://hickoryrecord.com/wake-forest-researcher-there-arent-a-lot-of-vaccinated-people-in-the-hospital/article_d7555b28-feae-11eb-b9c4-972aad27fb50.html)

**Why you shouldn't be concerned when more vaccinated people are getting infected than unvaccinated** (2021) *RMIT ABC Fact Check*. Available at: <https://www.abc.net.au/news/2021-08-06/coronacheck-israel-higher-numbers-vaccinated-people-infected/100353540>

**Analysis: Why COVID-19 cases are rising in Canada** (2021) *Ottawa Sun*. Available at: <https://ottawasun.com/diseases-and-conditions/coronavirus/covid-19-cases-rising-in-canada/wcm/57a7281a-62f2-4982-aedb-b8732fc22303>

**Vaccines Remain Largely Effective Against Delta Variant, Counter to Claims From Fox News Guest** (2021) *The Washington Informer*. Available at: <https://www.washingtoninformer.com/vaccines-remain-largely-effective-against-delta-variant-counter-to-claims-from-fox-news-guest/>

**Could rapid result low sensitivity SARS-CoV-2 tests improve pandemic quarantine strategies?** (2021) *News Medical Life Sciences*. Available at: <https://www.news-medical.net/news/20210203/Could-rapid-result-low-sensitivity-SARS-CoV-2-tests-better-guide-pandemic-quarantine-strategies.aspx>

**Committee Spotlight: Committee on Women in Statistics** (2021) *Amstat News Magazine*. Available at: <https://magazine.amstat.org/blog/2021/07/01/committee-on-women-in-statistics/>

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