

# CURRICULUM VITAE

*Lucy* D'Agostino McGowan, Ph.D.

## PROFESSIONAL DATA

### **Primary Appointment**

Department of Statistical Sciences  
Wake Forest University  
127 Manchester Hall  
Winston-Salem, NC 27109

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### **Secondary Appointment**

Department of Biostatistics and Data Science  
Division of Public Health Sciences  
Wake Forest University School of Medicine

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## EDUCATION AND TRAINING

### DEGREES

**Ph.D.** 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*

**M.S.** in Biostatistics, December 2013

WASHINGTON UNIVERSITY IN ST. LOUIS SCHOOL OF MEDICINE

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

**B.A.** in Religious Studies and Romance Languages, May 2012

UNC CHAPEL HILL

*with Distinction and Highest Honors*

### POSTDOCTORAL TRAINING

**Postdoctoral Fellow**, 2018-2019

JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH

Department of Biostatistics

*Mentor: Jeffrey Leek, Ph.D.*

## PROFESSIONAL EXPERIENCE

2019-present	<b>Wake Forest University</b> <i>Assistant Professor, Department of Statistical Sciences</i>
2022-present	<b>Wake Forest University School of Medicine</b> <i>Secondary Joint Appointment, Department of Biostatistics and Data Science</i>
2017 March-August	<b>RStudio (Tidyverse Team)</b> <i>Internship under Jenny Bryan developing the 'googledrive' R package</i>
2016-2017	<b>Vanderbilt University</b> <i>NIH Big Data to Knowledge Training Fellow</i>
2015-2016, 2017-2018	<b>Vanderbilt University</b> <i>Research Assistant, Department of Biostatistics and VA Tennessee Valley</i>
2015 Summer	<b>Cleveland Clinic</b> <i>Summer Graduate Fellow, Department of Quantitative Health Sciences</i>
2012-2014	<b>Washington University School of Medicine</b> <i>Research Assistant, Gutmann Research Laboratory, Department of Neurology</i>
2012-2014	<b>Washington University School of Medicine</b> <i>Statistical Analyst, Department of Surgery, Division of Public Health Sciences</i>

## PUBLICATIONS

+Indicates equal contributions.

\* Indicates student advisee.

### JOURNAL ARTICLES (PEER-REVIEWED)

1. **D’Agostino McGowan L**, Tass S, Tyner S, Wang H, Yan J (2025). “Data Jamboree: A Party of Open-Source Software Solving Real-World Data Science Problems.” *The New England Journal of Statistics in Data Science*, 1-9. ISSN 2693-7166, doi:10.51387/25-NEJSDS79.
2. **D’Agostino McGowan L**, Lotspeich SC, Hepler SA (2024). “The “Why” behind including “Y” in your imputation model.” *Statistical Methods in Medical Research*, 33(6), 996-1020. doi:10.1177/09622802241244608, PMID: 38625810.
3. +**D’Agostino McGowan L**, Wohl S, +Lessler J (2024). “Power and sample size calculations for testing the ratio of reproductive values in phylogenetic samples.” *The American Journal of Epidemiology (In Press)*.
4. South AM, Giammattei VC, Bagley KW, Bakhoun CY, Beasley WH, Bily MB, Biswas S, Bridges AM, Byfield RL, Campbell JF, Chanchlani R, Chen A, **D’Agostino McGowan L**, others (2024). “The Study of the Epidemiology of Pediatric Hypertension Registry (SUPERHERO): Rationale and Methods.” *The American Journal of Epidemiology (In Press)*.
5. **D’Agostino McGowan L**, Gerke T, Barrett M (2024). “Causal inference is not just a statistics problem.” *Journal of Statistics and Data Science Education*, 32(2), 150-155. doi:10.1080/26939169.2023.2276446.
6. **D’Agostino McGowan L**, Peng RD, Hicks SC (2023). “Design Principles for Data Analysis.” *Journal of Computational and Graphical Statistics*, 32(2), 754-761. doi:10.1080/10618600.2022.2104290.
7. Mendoza H\*, **D’Agostino McGowan L** (2022). “Randomized controlled trial: Quantifying the impact of disclosing uncertainty on adherence to hypothetical health recommendations.” *PLOS One*, 17(12), e0278263. doi:10.1371/journal.pone.0278263.
8. **D’Agostino McGowan L** (2022). “Sensitivity Analyses for Unmeasured Confounders.” *Current Epidemiology Reports*, 9(4), 361-375. doi:10.1007/s40471-022-00308-6.
9. **D’Agostino McGowan L** (2022). “tipr: An R package for sensitivity analyses for unmeasured confounders.” *Journal of Open Source Software*, 7(77), 4495. doi:10.21105/joss.04495.
10. Rando HM, MacLean AL, Lee AJ, Ray S, Bansal V, Skelly AN, Sell E, Dziak JJ, Shinholster L, **D’Agostino McGowan L**, others (2021). “Pathogenesis, Symptomatology, and Transmission of SARS-CoV-2 through Analysis of Viral Genomics and Structure.” *mSystems*, 6(5), 10-1128. doi:10.1128/mSystems.00095-21.
11. Fox MP, Carr K, **D’Agostino McGowan L**, Murray EJ, Hidalgo B, Banack HR (2021). “Will Podcasting and Social Media Replace Journals and Traditional Science Communication? No, but...” *American Journal of Epidemiology*, 190(8), 1625-1631. doi:10.1093/aje/kwab172.
12. 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. doi:10.1371/journal.pmed.1003585.
13. +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), 795-805. doi:10.1097/HJH.0000000000002706.
14. **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. doi:10.1093/aje/kwab013.
15. **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.

16. 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*, 39(6), 1793-1802. doi:10.1007/s10067-020-04955-2.
17. 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*, 31(11), E73. PMID: 31876511.
18. 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.
19. 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). doi:10.1097/GOX.0000000000002259.
20. 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. doi:10.1097/CCM.0000000000003482.
21. 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*, 29, 823-832. doi:10.1007/s10552-018-1058-4.
22. 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. doi:10.1371/journal.pone.0188299.
23. 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. doi:10.1161/JAHA.116.005379, PMID: 28424149.
24. **D’Agostino McGowan L**, Bullen JA, Obuchowski NA (2016). “Location bias in ROC studies.” *Statistics in Biopharmaceutical Research*, 8(3), 258-267. doi:10.1080/19466315.2016.1173583.
25. 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. doi:10.1186/s13104-016-2159-3.
26. **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. doi:10.3389/fpubh.2015.00179.
27. 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. doi:10.1016/j.celrep.2015.02.041.
28. Kaphingst KA, Stafford JD, McGowan LD, 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. doi:10.1037/hea0000177.
29. 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. doi:10.1111/acem.12476.
30. 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. doi:10.1007/s10552-013-0311-0.

31. **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. doi:10.3390/ijerph110100418.

## REFEREED COMMENTARIES, EDITORIALS, AND OTHER PUBLICATIONS

32. Wrobel J, Hector EC, Crawford L, **D’Agostino McGowan L**, da Silva N, Goldsmith J, Hicks S, Kane M, Lee Y, Mayrink V, others (2024). “Invited Commentary: Partnering with Authors to Enhance Reproducibility at JASA.” *Journal of the American Statistical Association*, 1-6. doi:10.1080/01621459.2024.2340557.
33. **D’Agostino McGowan L**, D’Agostino Sr RB, D’Agostino Jr RB (2023). “Invited Commentary: A Visual Diagnostic Tool for Causal Inference.” *Observational Studies*, 9(1), 87-95. doi:10.1353/obs.2023.0008.
34. Molino AR, Andersen KM, Sawyer SB, Doan LN, Rivera YM, James BD, Fox MP, Murray EJ, **D’Agostino McGowan L**, Jarrett BA (2022). “Commentary: The Expert Next Door: Interactions With Friends and Family During the COVID-19 Pandemic.” *American Journal of Epidemiology*, 191(4), 552-556. doi:10.1093/aje/kwab245.
35. Rando HM, Boca SM, **D’Agostino McGowan L**, Himmelstein DS, Robson MP, Rubinetti V, Velazquez R, Greene CS, Gitter A (2021). “An open-publishing response to the COVID-19 infodemic.” In *CEUR workshop proceedings*, volume 2976, 29. NIH Public Access.
36. **D’Agostino McGowan L** (2020). “Book Review: Reproducible Research in R and R Studio, 3rd edition. By Christopher Gandrud.” *Biometrics*, 76(4), 1391-1391. doi:10.1111/biom.13396.
37. Fox MP, **D’Agostino McGowan L**, James BD, Lessler J, Mehta SH, Murray EJ (2021). “Commentary: Concerns About the Special Article on Hydroxychloroquine and Azithromycin in High Risk Outpatients with COVID-19 by Dr. Harvey Risch.” *American Journal of Epidemiology*, 190(4), 491-495. doi:10.1093/aje/kwaa189.
38. **D’Agostino McGowan L**, Roumie CL (2018). “Editorial: Sulfonylureas as second line treatment for type 2 diabetes.” *BMJ*, 362. doi:10.1136/bmj.k3041.
39. Diggs-Andrews KA, Brown JA, Gianino SM, **D’Agostino McGowan L**, Rubin JB, Wozniak DF, Gutmann DH (2014). “Reply to: Sex Is a major determinant of neuronal dysfunction in neurofibromatosis type 1.” *Annals of Neurology*, 75(5), 800-801. doi:10.1002/ana.24156.
40. Fisher MJ, Loguidice M, Gutmann DH, Listernick R, Ferner RE, Ullrich NJ, Packer RJ, Tabori U, Hoffman RO, Arden-Holmes SL, Hummel TR, Hargrave DR, Bouffet E, Charrow J, Bilaniuk LT, Balcer LJ, **D’Agostino McGowan L**, Liu GT (2014). “Letter: Gender as a disease modifier in neurofibromatosis type 1 optic pathway glioma.” *Annals of Neurology*, 75(5), 799-800. doi:10.1002/ana.24157.

## PRESENTATIONS

### INVITED PRESENTATIONS AT SCIENTIFIC MEETINGS

#### ENAR 2025

ORAL PRESENTATION

Lucy D’Agostino McGowan, “The Why Behind Including Y in your Imputation Model.”

#### WSDS 2024

ORAL PRESENTATION

Lucy D’Agostino McGowan, “It’s ME hi, I’m the collider it’s ME.”

#### WSDS 2024

ORAL PRESENTATION

Lucy D’Agostino McGowan, “Including the outcome in your imputation model – why isn’t this ‘double dipping’?”

<b>IDWSDS 2024</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “Power and sample size calculations for testing the ratio of reproductive values in phylogenetic samples.”	
<b>ASA Joint Statistical Meeting 2024</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “Evaluating the Alignment of a Data Analysis between Analyst and Audience.”	
<b>Duke University Stroke Invited Speaker Series 2024</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “Statistical Rigor in Academic Medicine: Practical Strategies for Improvement.”	
<b>Analytic Design Theory Mini-Retreat 2024</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “A Framework for Developing AI-powered Negotiation Agents to Examine Producer-Consumer Dynamics in Data Science.”	
<b>Women in Statistics and Data Sciences 2023</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “The ‘Why’ Behind Including ‘Y’ in Your Imputation Model.”	
<b>ASA Joint Statistical Meeting 2023</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “A Visual Diagnostic Tool for Causal Inference.”	
<b>R/Medicine 2022</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “ConTESSA: A Shiny Application to Assist with Evaluating the Impact of COVID-19 test-trace-isolate Programs.”	
<b>ASA Joint Statistical Meeting 2021</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “Examining the Impact of Software Instruction on Completion of Data Analysis Tasks.”	
<b>Wake Forest University BI and Analytics Meeting February 2021</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “Hill’s Criteria for the Data Scientist: Incorporating Causal Inference Techniques.”	
<b>Wake Forest School of Medicine Methods Conference 2020</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “Applied Demonstration of the tipr R Package.”	
<b>JupyterCon 2020</b>	KEYNOTE
Lucy D’Agostino McGowan, “Equipping and Empowering Future Data Scientists with Confidence, Intuition, and Communication Skills.”	
<b>ASA Joint Statistical Meeting 2020</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “The Ups and Downs of Communicating Complex Statistics.”	
<b>SDSS 2020</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “Best Practices for Teaching R A Randomized Controlled Trial.”	
<b>ENAR 2020</b>	ORAL PRESENTATION
Lucy D’Agostino McGowan, “Tools for Analyzing R code the Tidy Way.”	

**ASA Joint Statistical Meeting 2019**

ORAL PRESENTATION

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

**ASA Joint Statistical Meeting 2018**

ORAL PRESENTATION

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

**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.”

**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.”

**INVITED SEMINARS AND COLLOQUIA****Auburn University Department of Health Outcomes Research and Policy**

“Untangling Causal Effects: Understanding the Limits of Statistics.”

**Wake Forest University School of Medicine Division of Public Health Sciences Grand Rounds 2024**

“Why You Must Include the Outcome in Your Imputation Model (and Why It’s Not Double Dipping).”

**ENAR Webinar Series Spring 2024**

“When to Include the Outcome in Your Imputation Model: A Mathematical Demonstration and Practical Advice.”

**Temple University Seminar 2024**

“Bridging the Gap Between Theory and Practice: When to Include the Outcome in Your Imputation Model.”

**National Institute for Research in Digital Science and Technology Causal Inference and Missing Data Group 2024**

“Bridging the Gap Between Imputation Theory and Practice.”



#### **CAUSE Webinar Series 2024**

“Causal Inference is Not Just a Statistics Problem.”

#### **Icahn School of Medicine at Mount Sinai Department of Population Health Science and Policy Seminar 2024**

“Integrating Design Thinking in the Data Analytic Process.”

#### **NC ASA Annual Dinner 2024**

“Analytic Design Theory: Framework for Alignment Between Analyst and Audience.”

#### **University of Houston Grand Rounds 2023**

“Moving Towards Best Practice: Dispelling Statistical Myths.”

#### **Teaching Statistics in Health Sciences (ASA) Webinar Series 2023**

“Design Principles of Data Analysis.”

#### **Duke University Department of Statistical Science Fall 2023**

“Causal Quartet: When Statistics Alone Do Not Tell the Full Story.”

#### **Appalachian State University Department of Mathematics Fall 2023**

“Estimating Causal Effects: This be Madness, Yet There is Method in It.”

#### **Open Science ReproducibiliTea 2023**

“Causal Inference is Not a Statistics Problem.”

#### **Johns Hopkins Bloomberg School of Public Health Department of Biostatistics Seminar Spring 2023**

“Causal Inference Challenges that Go Beyond Statistics.”

#### **University Massachusetts Amherst Department of Biostatistics & Epidemiology Seminar Spring 2023**

“Practical Principles for Data Analysis Design.”

#### **Duke Clinical Research Institute Fellows Seminar Series Fall 2022**

“Statistical Myths and Misuse: Abandoning Outdated Statistical Practices.”

#### **Wake Forest University School of Medicine Department of Biostatistics and Data Science Seminar 2022**

“Modern Statistical Communication in the Social Media Era.”

#### **CDC Statistical Advisory Group 2022**

“The Journey to True: Accurate Statistical Communication.”

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

“Let’s Get Meta: Analyzing your R code with tidycode.”

#### **CDC R Group 2020**

“ConTESSA: A Shiny App to Help Quantify Contact Tracing Efficacy.”

#### **Macalester College 2019**

“There and Back Again, a Data Scientist’s Tale.”

## INVITED WORKSHOPS AND PANELS

### **WSDS 2024**

PANEL

Lucy D’Agostino McGowan, Ana Ortega-Villa, Sarah Lotspeich, Jennifer Van Mullekom, Stephanie DeHart, “Statistical Storytelling: Insights Into Effective Presentation Strategie.”

### **IDWSDS 2024**

PANEL

Lucy D’Agostino McGowan, Ana Ortega-Villa, Suhwon Lee, “The Art of the Invite: Crafting Successful Invited Session Proposals.”

### **New York R Conference 2024**

WORKSHOP

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

### **ASA Statistical Computing in Action 2023**

PANEL

Lucy D’Agostino McGowan, “Data Jamboree: Analyzing NYC 311 Service Requests in R.”

### **Women in Statistics and Data Sciences 2023**

PANEL

Ana Maria Ortega-Villa, Lucy D’Agostino McGowan, Pamela Shaw, Suhwon Lee, Tanya Garcia, “Demystifying Invited Session Proposals.”

### **New York R Conference 2023**

WORKSHOP

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

### **WFU Translational and Health System Science Guest Lecture 2023**

LECTURE

Lucy D’Agostino McGowan, “Causal Inference is Not Just a Statistics Problem.”

### **WFU CAT ChatGPT Learning Series 2023**

PANEL

Amanda Corris, Lucy D’Agostino McGowan, Justin Esarey, Jerid Francom, Dwayne Godwin, Jed Macosko, “The Science of ChatGPT.”

### **ENAR 2023**

PANEL

Xiangrong Kong, Torri Simon, Andrew Spieker, Briana Stephenson, Lucy D’Agostino McGowan, “Kickstart your Career: How to Maximize Those Early Years.”

### **Posit Tidymodels Team**

WORKSHOP

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

### **Rstudio::conf 2022**

WORKSHOP

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

### **New York R Conference 2021**

WORKSHOP

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

### **The Wake Forest 2022 Conference on Analytics Impact 2022**

PANEL

Lucy D’Agostino McGowan, “Communicating During a Pandemic: What Worked, What Didn’t and What’s Next.”

### **National Institute of Statistical Sciences Graduate Student Conference 2022**

PANEL

Lucy D’Agostino McGowan, “Tips for Statistical Communication and Data Storytelling.”



<b>North Carolina Translational and Clinical Sciences Institute</b>	PANEL
Lucy D’Agostino McGowan, “What is the Value of the p-value?.”	
<b>R-Ladies NYC</b>	PANEL
Lucy D’Agostino McGowan, Lysie Daley, Kat Hoffman, Michael Kane, “Panel Discussion: Working with and Learning from COVID-19 data.”	
<b>New York R Conference 2021</b>	WORKSHOP
Lucy D’Agostino McGowan and Malcolm Barrett, “Causal Inference in R.”	
<b>ENAR 2021</b>	PANEL
Lucy D’Agostino McGowan, Caitlin Rivers, Eleanor Murray, Kareem Carr, Jeffrey Leek, “Communicating Complex Statistical Concepts to Collaborators, Stakeholders, and the General Public.”	
<b>R in Government Conference</b>	WORKSHOP
Lucy D’Agostino McGowan and Malcolm Barrett, “Causal Inference in R.”	
<b>NC School of Science and Math Data Science Panel 2020</b>	PANEL
Lucy D’Agostino McGowan, “Data Science at Wake Forest University.”	
<b>user!2020</b>	WORKSHOP
Lucy D’Agostino McGowan and Malcolm Barrett, “Causal Inference in R.”	
<b>eCOTS 2020</b>	PANEL
Laura Le, Kari Lock Morgan, Lucy D’Agostino McGowan, “Panel: Engaging Students during the COVID-19 Health Crisis.”	
<b>ASA K-12 Virtual Workshops 2020</b>	WORKSHOP
Lucy D’Agostino McGowan and Shannon Ellis, “Using RStudio Cloud in the Classroom.”	
<b>ENAR 2019</b>	WORKSHOP
Lucy D’Agostino McGowan, “Data Visualizations with ggplot2.”	
<b>Women in Statistics and Data Science 2017</b>	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.”	
<b>R-Ladies Nashville 2017</b>	WORKSHOP
Lucy D’Agostino McGowan, “An R + GitHub Journey.”	

## CONTRIBUTED PRESENTATIONS AT SCIENTIFIC MEETINGS

### **ASA Joint Statistical Meeting 2022**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "Design Thinking: Empirical Evidence for Six Principles of Data Analysis."

### **Women in Statistics and Data Science 2021**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "Bringing Data Science Communication into the Classroom."

### **rstudio::global 2021**

ORAL PRESENTATION

Lucy D'Agostino McGowan, "Designing Randomized Studies using Shiny."

### **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."

### **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."

### **ENAR 2017**

ORAL PRESENTATION

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

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."

### **Northeast SAS Users Group 2013**

POSTER

Lucy D'Agostino McGowan, "SAS ® for Budgeting an Ideal Wedding."

## 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."

## 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."

## GRANT FUNDING

### CURRENT

- 2024-2027 Patient-Centered Outcomes Research Institute, *Balanced subgroup discovery: who benefits most from an intervention?* (PI: Joseph Rigdon)  
Role: Subaward PI, Co-I (WFU Amount: \$129,094, Total Amount: \$1,069,896)
- 2023-2024 Wake Forest University Program for Leadership and Character, *Evaluating the impact of communicating quantitative results transparently on stakeholder trust* (PI: **Lucy D'Agostino McGowan**)  
Role: PI (WFU Amount: \$3,000)
- 2023-2024 R Consortium, *Causal Inference in a Box* (PI: **Lucy D'Agostino McGowan**)  
Role: PI (WFU Amount: \$1,667, Total Amount \$5,000)
- 2023-2025 Wake Forest University Faculty Development Fund, *Casual Inference Podcast*  
Role: PI (WFU Amount: \$2,940)

### COMPLETED

- 2020-2021 Wake Forest School of Medicine's Translational Research Initiative Joint Pilot Project, *Study of the Epidemiology of Pediatric Hypertension Registry* (PI: Andrew South)  
Role: Co-I
- 2020 Wake Forest University Program for Leadership and Character, *Leadership and Character Course Re-design: Statistical Learning*  
Role: Course Designer (WFU Amount: \$1,000)
- 2020-2021 Bloomberg Philanthropies, *Maximizing and Evaluating the Impact of Contact Tracing Programs* (PI: Emily Gurley)  
Role: Consultant (Amount: \$15,000)
- 2019-2020 Wake Forest University Center for the Advancement of Teaching SoTL Seed Grant Fund, *A study of various methods to teach R programming* (PI: **Lucy D'Agostino McGowan**)  
Role: PI (WFU Amount: \$940)

## UNDER PREPARATION

Jan 2025

(anticipated) Patient-Centered Outcomes Research Institute, *Harmonizing Clinical Interpretations: Addressing Bias in Clinical Trials due to Clinician and Central Read Discordance* (PI: **Lucy D’Agostino McGowan** and Ralph D’Agostino, Jr.)  
Role: PI (WFU Amount: \$247,024, Total Amount: \$955,455)

Feb 2025

(anticipated) National Institutes of Health, *Towards a Statistical Framework for Designing Studies Aimed at Molecular Surveillance and Phylogenetic Inference* (PI: **Lucy D’Agostino McGowan** and Shirlee Wohl)  
Role: PI (WFU Amount: \$514,945, Total Amount: \$3,934,692)

Feb 2025

(anticipated) National Institutes of Health, *Enhancing Approaches for Missingness in Aging Research (MNAR)* (PI: **Lucy D’Agostino McGowan** and Emilie Duchesneau)  
Role: PI (WFU Amount: \$24,462, Total Amount: \$50,000)

## SOFTWARE

### AUTHOR & MAINTAINER

**quartets**: An R package that contains pedagogical datasets for statistical concepts (2023-2024)

**ConTESSA**: A Shiny Application developed in collaboration with the John Hopkins Infectious Disease Dynamics group to help contact tracing program managers. (2020-2023)

**pald**: An R package to calculate partitioned local depth (PaLD) probabilities for clustering (2019-2024)

**tidycode**: An R package to analyze lines of R code using tidy principles. This allows you to input lines of R code and output a data frame with one row per function included. Additionally, it facilitates code classification via included lexicons. (2019-2020)

**tipr**: An R package with tools for conducting tipping point sensitivity analyses. (2018-2024)

**contributr**: A Shiny Application developed in collaboration with Maelle and rOpenSci for finding beginner GitHub issues to contribute to. (2017)

**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 (2016-2017)

### AUTHOR

\* Indicates package is maintained by former student advisee

**phylosamp**: An R package that implements novel tools for estimating sample sizes needed for phylogenetic studies, including studies focused on estimating the probability of true pathogen transmission between two cases given phylogenetic linkage and studies focused on tracking pathogen variants at a population level. (2024)

**rcanvas**: An R package for interfacing with the Canvas API (2023)

**shinysurveys\***: An R package to easily create and deploy surveys in ‘Shiny’. This package includes a minimalistic framework similar to ‘Google Forms’ that allows for url-based user tracking, customizable submit actions, easy survey-theming, and more. (2021)

**matahari**: An R package to conveniently log everything you type into the R console. Logs are stored as tidy data frames which can then be analyzed using ‘tidyverse’ style tools. (2019)

**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. (2017)

**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. (2017)

**meetupr:** An R package authored and maintained by R-Ladies to interface with the Meetup API (2016)

## CONTRIBUTER

**tableone:** An R package to create 'Table 1', i.e., description of baseline patient characteristics, which is essential in every medical research. Supports both continuous and categorical variables, as well as p-values and standardized mean differences. Weighted data are supported via the 'survey' package. (2022)

**xaringan:** An R package to create HTML5 slides with R Markdown and the JavaScript library 'remark.js' (2021)

**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. (2017)

**RJafroc:** An R package for analyzing data acquired using the Receiver Operating Characteristic paradigm and its extensions. (2016)

## TEACHING EXPERIENCE

### WAKE FOREST UNIVERSITY

- (Spring) BEM 392: Seminar in Mathematical Business Analysis (2024)
- (Spring) STA 112: Introduction to Regression and Data Science (2024)
- (Fall) STA 112: Introduction to Regression and Data Science (2023)
- (Fall) STA 779: Causal Inference (2023)
- (Spring) BEM 392: Seminar in Mathematical Business Analysis (2023)
- (Spring) STA 363: Statistical Learning (2023)
- (Fall) STA 112: Introduction to Regression and Data Science (2022)
- (Spring) BEM 392: Seminar in Mathematical Business Analysis (2022)
- (Spring) STA 379/679: Causal Inference (2022)
- (Fall) STA 312: Linear Models (2020)
- (Fall) STA 363: Statistical Learning (2020)
- (Spring) STA 363: Statistical Learning (2020)
- (Fall) STA 212: Statistical Modeling (2019)

### VANDERBILT UNIVERSITY

- Frank Harrell's Regression Modeling Strategies Teaching Assistant (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 (2020-2022)
- 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

- Kiyo Takahashi, *Trust in Data Analysis* (2023-2024)
- Noah Edwards-Thro, *NBA Player Clustering Using Gaussian Mixture Modeling* (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

- Ives Xue, *Introducing time ordering to combat collider bias* (2024)
- Fiona Zhang, *Fitting infectious distributions to asymptomatic antigen testing data* (2024)
- Chester Pan, *Introduction to Large Language Models* (2023-2024)
- James Zhao, *Bootstrap Intervals for Post-Imputation Inference* (**Course Credit**) (2023)
- Shawn Lang, *Propensity Score Models* (2022)
- Hannah Luebbering, *Studies on Teaching Programming: A Literature Review* (2020-2021)
- Iris Liu, *Building a Dashboard and Gaining Insight into Reynolda Museum Data*, URECA Wake Forest Research Fellowship (**Funded Research**) (2020)
- Sophia Fang, *Understanding Statistics and Data in The Medical Literature Course Update* (2020)
- Sofia Blankenship, *Building a Shiny Applications* (**Course Credit**) (2019)

### COMMITTEES

Ashley Mullan (2024 M.S. Statistics) and Abhi Jain (2022 M.S. Mathematical Statistics)

## AWARDS

2025	Emerging Leader Award, Committee of Presidents of Statistical Societies
2023	ASA Teaching of Statistics in the Health Sciences Young Investigator Award
2023	ASA StatsForward Fellow
2023	Featured Speaker, North Carolina Chapter of the ASA Annual Dinner
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

## PROFESSIONAL ACTIVITIES

### INTERNAL SERVICE

#### *Department of Statistical Sciences*

2023-2024	Chair, Colloquium Committee
2023-2024	Committee member, Temporary Faculty
2022-2023	Committee member, Department Awards Committee
2022-2023	Committee member, Colloquium Committee
2020-2024	Statistics Major Advisor
2020-2021	Committee member, Statistics Hiring Committee
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	Committee member, Statistics Curriculum Committee

#### *College-wide*

2024	Chair, Melson Doctoral Student Award Committee
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2022-2024 Secretary, Graduate Council  
 2020-2022 Wake Forest College Covid-19 Steering Committee Working Group  
 2020-2021 Peer Learning Community Facilitator, WFU Center for Advancement of Teaching

## EXTERNAL PROFESSIONAL SERVICE

2024 PCORI Grant Merit Reviewer  
 2020-2022 Committee of Presidents of Statistical Societies (COPSS) Communications Officer  
 2014 Abstract reviewer, Applied Public Health Statistics, American Public Health Association

### ***Service on Editorial Boards***

2023-2024 Associate Editor for Reproducibility, JASA  
 2023-2024 Associate Editor, R Journal  
 2019-2024 Associate Editor (Social Media), The American Journal of Epidemiology

### ***Service for the American Statistical Association***

2024 Past-chair, ASA Section on Statistical Graphics  
 2023 Chair, ASA Section on Statistical Graphics  
 2022 Chair elect, ASA Section on Statistical Graphics  
 2021 Chair, ASA Committee on Women in Statistics  
 2020 Vice-chair, Chair-elect, ASA Committee on Women in Statistics  
 2019-2023 Committee member, ASA Computing and Graphics Student Paper Award Committee  
 2019-2021 Council of Sections Representative, ASA Section on Statistical Computing  
 2019 Committee member, ASA Committee on Women in Statistics  
 2019 Interim Program Chair, ASA Statistics Communication Interest Group  
 2018 Committee member, ASA 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

### ***Service for the International Biometric Society (ENAR)***

2021-2023 Council on Emerging and New Statisticians Liaison, ENAR Regional Advisory Board  
 2020-2023 Member, ENAR Regional Advisory Board  
 2020-2021 Committee member, ENAR Program Committee

### ***Referee***

*Biostatistics, The American Statistician, BMJ Open, Journal of Statistical Software, rOpenSci, American Journal of Epidemiology, Statistics in Medicine, Journal of the Royal Statistical Society, Nature Biotechnology, PLOS One, Observational Studies, Biometrics, The R Journal, Journal of Statistics and Data Science Education, Data Science in Science, Stat, The International Journal of Psychology and WIREs Computational Statistics*

### ***Chaired Conference Sessions***

2024 Statistical Methods For HIV Research: Battling An Epidemic With Linked, Missing, And Error-prone Data, WSDS 2024  
 2023 Improving Estimation of Difficult to Measure Health Outcomes, ENAR 2023

2022 Educating Character in the Social Sciences Panel, WFU Educating Character Across the University Conference

## OUTREACH

2022-2024 Founding co-organizer, Wake Forest University Florence Nightingale Day  
2022 Co-organizer, WFU Conference on Communicating with Healthcare Data  
2022 Chair, Data Jamboree ASA Section on Statistical Computing Symposium  
2019-2024 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

## PRESS

**Program aims to ignite youth excitement in data science careers** (2024) *Wake Forest News*. (quoted). Available at: <https://news.wfu.edu/2024/03/27/program-aims-to-ignite-youth-excitement-in-data-science-careers/>

**WFU to introduce middle and high schoolers to careers in statistics and data science** (2023) *Wake Forest News*. (quoted). Available at: <https://news.wfu.edu/2023/04/12/wfu-to-introduce-middle-and-high-schoolers-to-careers-in-statistics-and-data-science/>

**Covid-19 safety doesn't have to be all or nothing. Here's how to think about it going forward.** (2022) *Vox*. (quoted). Available at: <https://www.vox.com/23000377/how-to-use-covid-data-numbers-protect-yourself-high-risk>

**Is Covid More Dangerous Than Driving? How Scientists Are Parsing Covid Risks.** (2022) *The New York Times*. (quoted). Available at: <https://www.nytimes.com/2022/04/17/science/covid-risks.html>

**How to think about masking on planes, trains, and buses right now** (2022) *Vox*. (quoted). Available at: <https://www.vox.com/23036148/should-i-mask-when-flying-riding-subway-bus-uber>

**Just Tweak Some Parameters** (2022) *Not So Standard Deviations Podcast*. (podcast). Available at: <https://nssdeviations.com/154-just-tweak-some-parameters>

**With public health information saying 'why' matters** (2022) *Wake Forest News*. (write-up). Available at: <https://news.wfu.edu/2022/12/14/with-public-health-information-saying-why-matters/>

**Professors Carry Remote Learning Learned into New Semester** (2021) *Spectrum News*. (quoted). 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*. (write-up). 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*. (radio). 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*. (quoted). 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*. (televised interview). 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*. (quoted). 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*. (op-ed). 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*. (write-up). 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*. (quoted). 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*. (quoted). 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*. (quoted). 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*. (quoted). 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*. (write-up). 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*. (write-up). Available at: <https://magazine.amstat.org/blog/2021/07/01/committee-on-women-in-statistics/>

**Breakthrough COVID-19 & Delta** (2021) *Epidemiology Counts, a Society for Epidemiologic Research Podcast*. (podcast). Available at: <https://serepidemiologycounts.blubrry.net/2021/09/09/epidemiology-counts-episode-28-breakthrough-covid-19-delta/>

**Six Rules That Will Define Our Second Pandemic Winter** (2021) *The Atlantic*. (quoted). Available at: <https://www.theatlantic.com/health/archive/2021/09/six-ways-think-about-pandemic-now/620129/>

**How to stay safe this Thanksgiving, even as the COVID pandemic remains a threat** (2021) *USA Today*. (op-ed). Available at: <https://www.usatoday.com/story/opinion/2021/11/21/how-to-stay-safe-thanksgiving-holidays-covid-tests/8671612002/?gnt-cfr=1>

**@WomeninStat + Rotating Curators = Success** (2021) *Amstat News Magazine*. (write-up). Available at: <https://magazine.amstat.org/blog/2021/12/01/womencurator/>

**The power of professors: Peer learning communities advance the art of teaching during a pandemic** (2020) *Wake Forest News*. (quoted). Available at: <https://news.wfu.edu/2020/08/04/the-power-of-professors-peer-learning-communities-advance-the-art-of-teaching-during-a-pandemic/>

**Why the ‘COVID-19 killed only 6%’ argument is wrong by Justin Lessler and Lucy D’Agostino McGowan** (2020) *USA Today Op-Ed*. (op-ed). Available at: <https://www.usatoday.com/story/opinion/2020/09/02/why-covid-19-killed-only-6-argument-wrong-column/3454179001/>

**ASA Fellows Analysis by Lucy D’Agostino McGowan and Katherine Monti** (2020) *Amstat News Magazine*. (article). Available at: <https://magazine.amstat.org/blog/2020/10/01/asa-fellows-analysis/>

**Indoor Church Services Are COVID-19 Hot Spots: Here’s Why** (2020) *Healthline*. (quoted). Available at: <https://www.healthline.com/health-news/indoor-church-services-are-covid-19-hot-spots-heres-why#Church-outbreaks>

**How to protect yourself and others from spreading COVID-19 at Thanksgiving dinner by Justin Lessler and Lucy D’Agostino McGowan** (2020) *USA Today Op-Ed*. (op-ed). Available at: <https://www.usatoday.com/story/opinion/2020/11/25/how-reduce-risk-getting-covid-19-thanksgiving-dinner-column/6419700002/>

**A casual conversation concerning causal inference** (2020) *Practical AI Podcast*. (podcast). Available at: <https://changelog.com/practicalai/113>

**Special Guest Lucy D’Agostino McGowan** (2020) *Not So Standard Deviations Podcast*. (podcast). Available at: <https://nssdeviations.com/118-special-guest-lucy-dagostino-mcgowan>

**Rising Star Talks About Statistics Journey, Future of the Profession** (2018) *Amstat News Magazine*. (write-up). Available at: <http://magazine.amstat.org/blog/2018/09/01/startalksstatistics/>

**Diabetes: Switching to common drugs raises risk of complications** (2018) *Medical News Today*. (write-up). Available at: <https://www.medicalnewstoday.com/articles/322523>

**Women in Data Science & How to Help** (2018) *Super Data Science Podcast*. (podcast). Available at: <https://www.superdatascience.com/podcast/podcast-women-in-data-science>

**Is your research hot or not? US boffins create “Tinder for preprints”** (2017) *The Register*. (write-up). Available at: [https://www.theregister.co.uk/2017/06/19/science\\_research\\_tinder\\_preprint\\_app/](https://www.theregister.co.uk/2017/06/19/science_research_tinder_preprint_app/)

**Great paper? Swipe right on the new “Tinder for preprints” app** (2017) *Science*. (write-up). Available at: <http://www.sciencemag.org/news/2017/06/great-paper-swipe-right-new-tinder-preprints-app>

**Swipe right for science: Papr app is “Tinder for preprints”** (2017) *Nature*. (write-up). Available at: <https://www.nature.com/news/swipe-right-for-science-papr-app-is-tinder-for-preprints-1.22163>

**What Do Lucy D’Agostino McGowan and Ryan Jarrett Do When They Are Not Being Statisticians?** (2017) *Amstat News Magazine*. (write-up). Available at: <https://magazine.amstat.org/blog/2017/11/01/lucy-dagostino-mcgowan-and-ryan-jarrett/>