

Natalie Exner Dean

Curriculum Vitae

CONTACT INFORMATION

Department of Biostatistics
University of Florida
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EDUCATION

Ph.D. Biostatistics, Harvard University	2014
“ <i>Surveillance methods for monitoring HIV incidence & drug resistance</i> ”	
A.M. Biostatistics, Harvard University	2011
B.A. Mathematics/Statistics, Biology, Boston University, <i>summa cum laude</i>	2009

PROFESSIONAL EXPERIENCE

Assistant Professor, Department of Biostatistics, University of Florida	2017–Present
Postdoctoral Associate, Department of Biostatistics, University of Florida	2015–2017
External Statistical Consultant, HIV Department, World Health Organization	2014–2015

RESEARCH INTERESTS

Public health surveillance, Infectious disease epidemiology, Emerging pathogens, Vaccine evaluation, Clinical trial design, Adaptive design

PUBLICATIONS

Refereed Journal Articles

1. Galler JR, Bryce CP, Waber D, Hock RS, **Exner N**, Eaglesfield D, Fitzmaurice G, Harrison R (2010). Early childhood malnutrition predicts depressive symptoms at ages 11-17. *Journal of Child Psychology and Psychiatry* 51(7): 789-798.
2. Galler JR, Bryce CP, Zichlin ML, Waber DP, **Exner N**, Fitzmaurice GM, Costa PT (2013). Malnutrition in the first year of life and personality at age 40. *Journal of Child Psychology and Psychiatry* 54(8): 911-919.

3. Russo GS, Ferrucci AM, Miller CP, Dean EW, Strohbehn GW, **Dean NE**, Sharkey MS (2015). Factors associated with the transfer of pediatric patients with supracondylar humerus fractures to a level I pediatric trauma center. *Connecticut Medicine* 79(8): 461-466.
4. Ebola ça suffit ring vaccination trial consortium (coauthor **Dean NE**) (2015). The ring vaccination trial: a novel cluster randomised controlled trial design to evaluate vaccine efficacy and effectiveness during outbreaks, with special reference to Ebola. *British Medical Journal* 351: h3740.
5. Henao-Restrepo A-M, Longini IM, Egger M, **Dean NE**, Edmunds WJ, Camacho A, Carroll MW, Doumbia M, Duraffour S, Enwere G, Grais R, Gunther S, Hossmann S, Kondé MK, Kone S, Kuisma E, Levine M, Mandal S, Norheim G, Riveros X, Soumah A, Trelle S, Vicari AS, Watson CH, Draguez B, Kéïta S, Røttingen J-A, Kieny M-P (2015). Efficacy and effectiveness of an rVSV-vectored vaccine expressing Ebola surface glycoprotein: interim results from the Guinea ring vaccination cluster-randomised trial. *The Lancet* 386(9996): 857-866. **International Society for Vaccines 2015 Paper of the Year*.
6. **Dean NE**, Pagano M (2015). Evaluating Confidence Interval Methods for Binomial Proportions in Clustered Surveys. *Journal of Survey Statistics and Methodology* 3(4): 484-503.
7. Fang LQ, Yang Y, Jiang JF, Yao H, Kargbo D, Li X, Jiang BG, Kargbo B, Tong YG, Wang YW, Liu K, Kamara A, Dfafe F, Kanu A, Jiang RR, Sun Y, Sun RX, Chen WJ, Ma M, **Dean NE**, Thomas H, Longini IM, Halloran ME, Cao WC (2016). Transmission Dynamics of Ebola Virus Disease and Intervention Effectiveness in Sierra Leone. *Proceedings of the National Academy of Sciences* 113(16): 4488-4493.
8. **Dean NE**, Halloran ME, Yang Y, Longini IM (2016). Transmissibility and Pathogenicity of Ebola Virus: A Systematic Review and Meta-analysis of Household Secondary Attack Rate and Asymptomatic Infection. *Clinical Infectious Diseases* 62(10): 1277-1286.
9. Rojas DP, **Dean NE**, Yang Y, Kenah E, Quintero J, Tomasi S, Ramirez EL, Kelly Y, Castro C, Carrasquilla G, Halloran ME, Longini IM (2016). The epidemiology and transmissibility of Zika virus in Girardot and San Andres Island, Colombia, September 2015 to January 2016. *Eurosurveillance* 21(28): pii=30283.
10. Ajelli M, Merler S, Fumanelli L, Pastore Y Piontti A, **Dean NE**, Longini IM, Halloran ME, Vespignani A (2016). Spatiotemporal dynamics of the Ebola epidemic in Guinea and implications for vaccination and disease elimination: a computational modeling analysis. *BMC Medicine* 14: 130.
11. Merler S, Ajelli M, Fumanelli L, Parlamento S, Pastore Y Piontti, **Dean NE**, Putoto G, Carraro D, Longini IM, Halloran ME, Vespignani A (2016). Containing Ebola at the source with ring vaccination. *PLoS Neglected Tropical Diseases* 10(11): e0005093.
12. Mutenda N, Bukowski A, Nitschke AM, Nakanyala T, Hamunime N, Mekonen T, Tjituka F, Mwinga S, Mazibuko G, Mbirizi D, Sagwa E, **Dean N**, Jordan MR, Hong SY (2016). HIV

Drug Resistance Early Warning Indicators in Main and Decentralized Outreach Antiretroviral Therapy Sites in Namibia. *PLoS ONE* 11(12): e0166649.

13. Henao-Restrepo AM, Camacho A, Longini IM, Watson CH, Edmunds WJ, Egger M, Carroll MW, **Dean NE**, Doumbia M, Draguez B, Duraffour S, Enwere G, Grais R, Gunther S, Gsell PS, Hossmann S, Kondé MK, Kéïta S, Kone S, Kuisma E, Levine M, Mandal S, Mauget T, Norheim G, Rivreros X, Soumah A, Trelle S, Vicari AS, Røttingen J-A, Kieny MP (2017). Efficacy and effectiveness of an rVSV-vectored vaccine in preventing Ebola virus disease: final results from the Guinea ring vaccination, open-label, cluster-randomised trial (Ebola Ça Suffit!). *The Lancet* 389(10068): 505-518.
14. Zhang Q, Sun K, Chinazzi M, Pastore-Piontti A, **Dean NE**, Rojas DP, Merler S, Mistry D, Poletti P, Rossi L, Bray M, Halloran ME, Longini IM, Vespignani A (2017). Spread of Zika virus in the Americas. *Proceedings of the National Academy of Sciences* 114(22): E4334-E4343.
15. Wilder-Smith A, Longini I, Zuber P, Bärnighausen T, Edmunds WJ, **Dean NE**, Masseray-Spicher V, Benissa MR, Gessner BG (2017). The public health value of vaccines beyond efficacy: methods, measures and outcomes. *BMC Medicine* 15: 138.
16. Gsell P, Camacho A, Kucharski A, Watson CH, Bagayoko A, Danmadji S, **Dean NE**, Diallo A, Djidonou H, Doumbia M, Fallah M, Enwere G, Higgs ES, Mauget T, Mory D, Riveros X, Thierno Oumar F, Toure A, Vicari AS, Longini IM, Edmunds WJ, Henao-Restrepo AM, Kéïta S (2017). Ring vaccination of adults and children with rVSV-ZEBOV in response to an outbreak of Ebola virus disease in Guinea, 2016: an operational and vaccine safety report. *Lancet Infectious Diseases* 17(12): 1276-1284.
17. **Dean NE**, Halloran ME, Longini IM (2018). Design of Vaccine Trials during Outbreaks with and without a Delayed Vaccination Comparator. *Annals of Applied Statistics* 12(1): 330-347.
18. Ma MJ, Zhao T, Chen SH, Xia X, Yang XX, Wang GL, Fang LQ, Ma GY, Wu MN, Qian YH, **Dean NE**, Yang Y, Lu B, Cao WC (2018). Avian Influenza A Virus Infection among Workers at Live Poultry Markets, China, 2013-2016. *Emerging Infectious Diseases* 24(7): 1246-1256.
19. Sun K, Zhang Q, Pastore-Piontti A, Chinazzi M, Mistry D, **Dean NE**, Rojas DP, Merler S, Poletti P, Rossi L, Halloran ME, Longini IM, Vespignani A (2018). Quantifying the risk of local Zika virus transmission in the contiguous US during the 2015–2016 ZIKV epidemic. *BMC Medicine* 16: 195.
20. Hunt GM, Ledwaba J, Kalimashe M, Salimo A, Cibane S, Singh B, Puren A, **Dean NE**, Morris L, Jordan MR (2019). Provincial and national prevalence estimates of HIV-1 drug resistance in South Africa measured using two WHO-recommended methods. *Antiviral Therapy* 24, 203-210.
21. Ding AA, Wu SS, **Dean NE**, Zahigian RS (2019). Two-stage Adaptive Enrichment Design for Testing an Active Factor. *Journal of Biopharmaceutical Statistics*

doi: 10.1080/10543406.2019.1609015.

22. **Dean NE**, Gsell PS, Brookmeyer R, De Gruttola V, Donnelly CA, Halloran ME, Jasseh M, Nason M, Riveros X, Watson C, Henao-Restrepo AM, Longini IM (2019). Considerations for the design of vaccine efficacy trials during public health emergencies. *Science Translational Medicine* 11(499): eaat0360.
23. Bellan SE, Eggo RM, Gsell PS, Kucharski A, **Dean NE**, Donohue R, Zook M, Odhiambo F, Longini I, Brisson M, Mahon B, Edmunds WJ, Henao-Restrepo AM (2019). An online decision tree for vaccine trial design during infectious disease epidemics: The InterVax-Tool. *Vaccine* 37(31): 4376-4381.
24. **Dean NE**, Gsell PS, Brookmeyer R, Crawford F, Donnelly C, Ellenberg S, Fleming T, Halloran ME, Horby P, Jaki T, Krause P, Longini I, Mulangu S, Muyembe-Tamfum JJ, Nason M, Smith PG, Wang R, Henao-Restrepo AM, De Gruttola V (2020). Accumulating evidence from randomized clinical trials across outbreaks. *New England Journal of Medicine* 382: 1366-1369.
25. **Dean NE**, Halloran ME, Longini IM (2020). Temporal Confounding in the Test Negative Design. *American Journal of Epidemiology* kwaa084.
26. Jing QL, Liu MJ, Yuan J, Zhang ZB, Zhang AR, **Dean NE**, Luo L, Ma MM, Longini IM, Kenah E, Lu Y, Ma Y, Jalali N, Fang LQ, Yang ZC, Yang Y (2020). Household secondary attack rate of COVID-19 and associated determinants in Guangzhou, China: a retrospective cohort study. *Lancet Infectious Diseases* doi: 10.1016/S1473-3099(20)30471-0.
27. Kimmel SE, Califf RM, **Dean NE**, Goodman SN, Ogburn EL (2020). COVID-19 clinical trials: a teachable moment for improving our research infrastructure and relevance. *Annals of Internal Medicine*.
28. Cardel N, **Dean N**, Montoya-Williams D (2020). Preventing a secondary epidemic of lost early career scientists: effects of COVID-19 pandemic on women with children. *Annals of the American Thoracic Society* doi: 10.7326/M20-2959.
29. Aleta A, Martin-Corral D, Pastore y Piontti A, Ajelli M, Litvinova M, Chinazzi M, **Dean NE**, Halloran ME, Longini I, Merler S, Pentland A, Vespignani A, Moro E (2020). Modeling the impact of testing, contact tracing and household quarantine on second waves of COVID-19. In press at *Nature Human Behaviour*.

Pre-Prints

Yang Y, Lu Q, Liu M, Wang Y, Zhang A, Jalali N, **Dean N**, Longini I, Halloran ME, Xu B, Zhang X, Wang L, Liu W, Fang L (2020). Epidemiological and clinical features of the 2019 novel coronavirus outbreak in China. *medRxiv*. doi: 10.1101/2020.02.10.20021675.

Davis JT, Chinazzi M, Perra N, Mu K, Pastore y Piontti A, Ajelli M, **Dean NE**, Gioannini C, Litvinova M, Merler S, Rossi L, Sun K, Xiong X, Halloran ME, Longini IM, Viboud C,

Vespignani A (2020). Estimating the establishment of local transmission and the cryptic phase of the COVID-19 pandemic in the USA. *medRxiv*. doi: 10.1101/2020.07.06.20140285.

Hitchings MDT, **Dean NE**, Garcia-Carreras B, Hladish TJ, Huang AT, Yang B, Cummings DAT (2020). The usefulness of SARS-CoV-2 test positive proportion as a surveillance tool. *medRxiv*. doi: 10.1101/2020.07.06.20147843.

Dean NE, Pastore y Piontti A, Madewell ZJ, Cummings DAT, Hitchings MDT, Joshi K, Kahn R, Vespignani A, Halloran ME, Longini IM (2020). Ensemble forecast modeling for the design of COVID-19 vaccine efficacy trials.
https://www.mobs-lab.org/uploads/6/7/1/8/7/6787877/ensembleforecastvaccines_12jun20.pdf

Other Publications

World Health Organization (coauthor **Dean NE**) (2014). HIV Drug Resistance Concept Note – Surveillance of HIV drug resistance in adults receiving antiretroviral therapy (acquired HIV drug resistance). <http://www.who.int/hiv/topics/drugresistance/protocols/en/>

World Health Organization (coauthor **Dean NE**) (2014). HIV Drug Resistance Concept Note – Surveillance of HIV drug resistance in adults initiating antiretroviral therapy (pretreatment HIV drug resistance). <http://www.who.int/hiv/topics/drugresistance/protocols/en/>

Longini IM, Egger M, **Dean NE**, Edmunds WJ, Henao-Restrepo AM, on behalf of the study steering group (2015). Ebola vaccination – Authors’ reply. *The Lancet* 386(10012): 2480.

World Health Organization (coauthor **Dean NE**) (2016). Global report on early warning indicators of HIV drug resistance: Technical report. <http://www.who.int/hiv/pub/drugresistance/ewi-hivdr-2016/en/>

World Health Organization (coauthor **Dean NE**) (2017). Guidance for sampling ART clinics in countries combining surveillance of pre-treatment HIV drug resistance and acquired HIV drug resistance at 12 and 48+ months. <http://www.who.int/hiv/pub/drugresistance/hivdr-sampling-guidance-2017/en/>

World Health Organization (coauthor **Dean NE**) (2017). Surveillance of HIV drug resistance in children newly diagnosed with HIV by early infant diagnosis - Concept note. <http://www.who.int/hiv/pub/drugresistance/hivdr-concept-note-2017/en/>

World Health Organization (lead author **Dean NE**) (2017). Informing Vaccination Programs: A Guide to the Design and Conduct of Dengue Serosurveys. http://www.who.int/immunization/research/development/dengue_serosurveys/en/

Dean NE (2019). Letter to the Editor. RE: "Measurement of vaccine direct effects under the test-negative design." *American Journal of Epidemiology* 188 (4), 806-810.

Ogburn EL, Bierer BE, Brookmeyer R, Choirat C, **Dean NE**, De Gruttola V, Ellenberg SS, Halloran ME, Hanley DF, Lee JK, Wang R, Scharfstein DO (2020). Aggregating data from COVID-19 trials. *Science* Jun 12;368(6496):1198-1199.

Software & Technical Tools

World Health Organization (developed by **Dean NE**) (2014). Excel-based sample size calculators to design pre-treatment HIV drug resistance (PDR) surveys.

World Health Organization (developed by **Dean NE**) (2014). Excel-based sample size calculators to design acquired HIV drug resistance (ADR) surveys.

World Health Organization (developed by **Dean NE**) (2014). Excel-based sample size calculators to design concurrent PDR and ADR surveys.

<http://www.who.int/hiv/topics/drugresistance/protocols/en/>

HONORS AND AWARDS

Winner, Provost's Excellence Award for Assistant Professors, University of Florida	2020
Winner, Do-Bui Travel Award for promising early career researchers, Caucus for Women in Statistics	2019
Winner, Edward C. Bryant scholarship for an outstanding student in survey statistics, American Statistical Association	2013
Honorable Mention, Gertrude M. Cox scholarship for women students in statistics, American Statistical Association	2013
Recipient, Department of Biostatistics Certificate of Distinction in Teaching, Harvard University	2012
Overall and Student Winner, Modeling & Prediction RAB Poster Award, ENAR Spring Meeting, Washington DC	2012
Winner, John E. Alman Award in Statistics, Department of Mathematics & Statistics, Boston University	2009
Inductee, Phi Beta Kappa Society, Boston University	2009
Trustee Scholar (full-tuition merit scholarship), Boston University	2005-2009
Corporate National Merit Scholar, Osram Sylvania	2005-2009
College Scholar, College of Arts & Sciences, Boston University	2008
Distinguished Sophomore, College of Arts & Sciences, Boston University	2006

FUNDED RESEARCH GRANTS & CONTRACTS

Principal Investigator Role

“Design and Analysis of Vaccine Trials for Emerging Infectious Disease Threats,” **PI Dean**, Agency NIH/NIAID, Type R01, Period of funding 08/2018–07/2023

“Vaccine Clinical Evaluation in Public Health Emergencies,” **PI Dean**, Agency WHO, Type Contract, Period 07/2017–09/2017

“Dengue Vaccine Seroprevalence Surveys,” **PI Dean**, Agency WHO, Type Contract, Period 08/2016–01/2017

Co-Investigator Role

“Quantifying the Epidemiological Impact of Targeted Indoor Residual Spraying on Aedes-borne Diseases,” PI Vazquez-Prokopec (Emory), Agency NIH/NIAID, Type U01, Period of funding 4/2020–3/2025

“COVID-19 RAPID: COV-DYNAMITE,” PI Prosperi, Agency NSF, Period 04/2020–04/2021

Trainee Role

“Modeling of Infectious Disease Agent Study Centers for Excellence Center for Statistics and Quantitative Infectious Diseases,” PI M. Elizabeth Halloran, Agency NIH/NIGMS, Period of funding 2017–2018

“Methods for Evaluating Vaccine Efficacy Supplement,” PI M. Elizabeth Halloran, Agency NIH/NIAID, Type R37, Period of funding 2018

“Methods for Evaluating Vaccine Efficacy,” PI M. Elizabeth Halloran, Agency NIH/NIAID, Type R37, Period of funding 2015–2017

“Statistical analysis of the Ebola ring vaccine trial in Guinea,” PI Ira Longini, Agency WHO, Type Contract, 2015–2016

“Accurate and Efficient Measures for HIV Incidence,” PI Marcello Pagano, Agency NIH/NIAID, Type R01, Period of funding 2013–2014

“Biostatistics/Epidemiology Training Grant in AIDS,” PI Marcello Pagano, Agency NIH, Type T32, Period of funding 2009–2013

Other Funding

Summer Institute in Statistics & Modeling of Infectious Diseases, Registration Scholarship, University of Washington, 2017

Women in Statistics & Data Science Conference, Travel Award, National Science Foundation, 2016

Summer Institute in Statistics & Modeling in Infectious Diseases, Registration Scholarship and Travel Award, University of Washington, 2010

PRESENTATIONS

Invited In-Person Seminars

“Applying the test negative design to evaluate vaccine effectiveness during outbreaks.” Infectious Disease Epidemiology and the Center for Communicable Disease Dynamics Spring Seminar Series, Harvard University, Boston, MA 2019

Invited Webinars

“COVID-19 Vaccine Evaluation.” New York University Skirball Institute of Biomolecular Medicine (trainee-nominated speaker) 2020

“COVID-19 Vaccine Evaluation.” University of Florida Informatics Institute 2020

“COVID-19 Update.” Data Science Zoominar, Dana Farber Cancer Institute 2020

“COVID-19 Vaccines Evaluation.” Decoding Pandemic Data, Brown University 2020

“COVID-19: Vaccines and Therapeutics.” Marvin Zelen Zoomposium, Dana Farber Cancer Institute 2020

Conference Invited Seminars

“The Ring Trial Design for the Estimation of Vaccine Efficacy and Effectiveness During Infectious Disease Outbreaks.” 13th Annual Conference on Statistical Issues in Clinical Trials, University of Pennsylvania, Philadelphia, PA (rescheduled due to COVID-19) 2021

“Adaptive Study Designs for Evaluation of New Vaccines.” National Foundation for Infectious Diseases Annual Conference in Vaccinology, Washington, DC (moved online due to COVID-19) 2020

“Chasing cases: Customizing vaccine trials for emerging infectious diseases.” Joint Statistical Meetings, Denver, CO 2019

“Methods for vaccine evaluation in outbreaks.” Modeling of Infectious Disease Agents Study (MIDAS) Network Annual Meeting, Bethesda, MD 2019

“Vaccine efficacy trial design for emerging infectious disease threats.” IISA International Conference on Statistics, Gainesville, FL 2018

“Risk estimates of microcephaly and other birth defects from prospective Zika cohorts.” MIDAS Network Meeting, Reston, VA 2016

“Evaluating Ebola vaccine Efficacy under Outbreak Conditions using a Ring Vaccination Trial Design.” ENAR Spring Meeting, Austin, TX 2016

Conference Contributed Seminars

“Combining Evidence from Randomized Clinical Trials Across Outbreaks.” ENAR Spring Meeting, Philadelphia, PA 2019

“Design Considerations for Vaccine Efficacy Trials in Outbreak Settings.” Joint Statistical Meetings, Chicago, IL 2016

“Analysis of an Ebola Vaccine Trial using a Ring Vaccination Design in Guinea, West Africa.” Epidemics 5, Clearwater, FL 2015

“Practical and Statistical Challenges in Developing an HIV Drug Resistance Surveillance Protocol.” ENAR Spring Meeting, Baltimore, MD 2014

“A Comparison of Methods for Estimating Confidence Intervals for Proportions in Clustered Surveys.” Joint Statistical Meetings, Montreal, Canada 2013

“Adapting Shannon’s Entropy to Strengthen Relationship between Time since HIV-1 Infection and Within-Host Viral Diversity.” ENAR Spring Meeting, Orlando, FL 2013

Selected Other Presentations

“Framework on accumulating evidence across outbreaks.” World Health Organization’s Blueprint 5th consultation on clinical trial design. Geneva, Switzerland 2018

“Recommended Guidelines for Dengue Serosurveillance.” WHO Immunization and vaccines related implementation research advisory committee meeting (IVIR-AC), Annecy, France 2017

“Surveillance of Pre-Treatment & Acquired HIV Drug Resistance.”
- Geneva, Switzerland 2015
- Port of Spain, Trinidad and Tobago 2014
- Brasilia, Brazil 2013
- Kunming, China 2013

TEACHING EXPERIENCE

Instructor, Department of Biostatistics, University of Florida	
PHC6059: Introduction to Applied Survival Analysis	2018–2020
STA6177/PHC6937: Applied Survival Analysis	2017
PHC4094: Intro to Biostatistics for Health Science and Public Health	2016
Instructor, Department of Biostatistics, Harvard University	
Problem Solving in Advanced Statistics	2012–2013
Teaching Assistant, Department of Biostatistics, Harvard University	
BIO210: Analysis of Rates and Proportions	2013
BIO287: Public Health Surveillance	2013
BIO507: Quantitative Methods for Monitoring & Evaluation	2012
BIO206: Introductory Statistics for Medical Research	2012
BIO201: Introduction to Statistical Methods	2010–2011

ADVISING

Doctoral Students at University of Florida

1. Yanan Huo (PhD, Biostatistics, active)
2. Amy Crisp (PhD, Biostatistics, active)

Doctoral Committees at University of Florida

1. Rachel Zahigian (PhD, Biostatistics, completed 2019)
2. Neda Jalali (PhD, Biostatistics, active)
3. Ashton Creasy (PhD, Environmental & Global Health, active)
4. Andrew Rainey (PhD, Environmental & Global Health, active)

PROFESSIONAL SERVICE

Peer Review

Journal Reviewer, Statistics: *Biometrics*; *Biostatistics*; *Clinical Trials*; *Communications in Statistics - Simulation and Computation*; *Statistical Methods in Medical Research*; *Statistics in Medicine*

Journal Reviewer, Applied: *The Lancet*; *Science*; *Nature*; *PNAS*; *AIDS Research and Human Retroviruses*; *American Journal of Epidemiology*; *Annals of Global Health*; *BMC Medicine*; *BMC Public Health*; *BMJ Open*; *Current Drug Targets*; *Emerging Infectious Diseases*; *Health Security*; *International Journal of Epidemiology*; *Journal of Clinical Medicine*; *The Lancet Infectious Diseases*; *Nature Communications*; *Nature Medicine*; *Parasites & Vectors*; *PLOS Neglected Tropical Diseases*; *Science Translational Medicine*; *Transactions of the Royal Society of Tropical Medicine and Hygiene*

Book Reviewer: *CRC Press, Wiley*

Grant Review

IRAP Infectious Disease Epidemiology, <i>National Institutes of Health</i>	2020
NIAID Special Emphasis Panel, <i>National Institutes of Health</i>	2019
Peer Reviewed Medical Research Program, <i>Department of Defense</i>	2018

Service to the Profession

Advisory Board, COVID Tracking Project	2020–Present
Advisory Board, COVID-19 Collaboration Platform	2020–Present
Member, HIVResNET Monitoring & Surveillance Working Group, World Health Organization	2018–Present
Member, R&D Blueprint for Action to Prevent Epidemics Clinical Trials Working Group, World Health Organization	2016–Present
Member, Professional Development Committee, Caucus for Women in Statistics	2020–Present
Leader, Working Group on Dengue Serosurveillance for Vaccination Planning, World Health Organization	2017

University Service

Organizer, CSQUID Working Group, University of Florida	2015–Present
Member, Department of Biostatistics Committee on Diversity, Equity & Inclusion, University of Florida	2020–Present
Member, Department of Biostatistics Committee on Space, University of Florida	2018–Present
Member, Strategic Planning Committee - Connecting our Undergraduate Students to our Advanced Degree Programs, University of Florida	2018
Judge, Florida Statewide Graduate Student Research Symposium, Gainesville, FL	2016
Judge, Three Minute Thesis (3MT), University of Florida	2016
Judge, Graduate Student Research Day, University of Florida	2015
Co-Coordinator, HIV Working Group Seminar Series, Department of Biostatistics, Harvard University	2012–2013

Chair, Department of Biostatistics Student Committee, Harvard University	2012–2013
Member, Department of Biostatistics Student Committee, Harvard University	2009–2012

PUBLIC ENGAGEMENT

Published Perspectives

Dean NE (July 17, 2020). The ‘low’ daily death rate for covid won’t last. *Washington Post*.

Rivers CM, **Dean NE** (July 6, 2020). Covid-19 in the US: We’re not getting full value from our data. *The BMJ Opinion*.

Dean NE (May 28, 2020). COVID-19 Data Dives: Why Don’t We Have a Vaccine for SARS or MERS? *Medscape*.

Dean NE (May 4, 2020). COVID-19 Data Dives: The Takeaways From Seroprevalence Surveys. *Medscape*.

Bergstrom C, **Dean NE** (May 1, 2020). What the proponents of ‘natural herd immunity’ don’t say. *New York Times*.

Dean NE, Rivers C (April 29, 2020). Antibody tests show we’re nowhere near herd immunity. *Washington Post*.

Dean NE (April 10, 2020). How to conduct coronavirus research at pandemic speed. *Washington Post*.

Dean NE, Vespignani A, Halloran ME, Longini IM, Halloran ME (September 12, 2016). Zika virus: only a few small outbreaks likely to occur in the continental US. *The Conversation*.

Community Outreach

“COVID-19 Research and Careers in Biostatistics.” Public Health Pathway Scholars Program. Gainesville, FL (by web)	2020
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“Vaccine Efficacy Trials for Emerging Pathogens.” Waterford High School Medical Careers Club. Waterford, CT (by web)	2018-2019
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“Vaccine Efficacy Trials for Emerging Pathogens.” CPET summer program for high school students in STEM. Gainesville, FL	2019
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“Vaccine Efficacy Trials for Emerging Pathogens.” CATALySES summer program for high school STEM teachers. Gainesville, FL	2017-2019
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“Our Community, Our Health: Everything You Wanted to Know About Zika” HealthStreet Interactive Town Hall, University of Florida, Gainesville, FL	2017
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Media

Selected Television

“Topic: Epidemiologists weigh in on going out to eat,” *Good Morning America*, July 24, 2020.

“Topic: Herd Immunity,” *CNN Erin Burnett OutFront*, May 5, 2020.

“Topic: Coronavirus vaccine research,” *CNN Inside Politics with John King*, March 27, 2020.

“Topic: Coronavirus epidemiology,” *Chicago WGN-TV*, March 27, 2020.

Selected Podcasts

“Conversation with Natalie Dean” *Sheltered in Place with Astronaut Ron Garan*, July 10, 2020.

“Biostatistics Expert Dr. Natalie Dean: US Reopening, Sweden, and Research Advancements” *COVID Daily News Podcast*, May 22, 2020.

“Should You Get an Antibody Test?” *Slate’s What Next: TBD*, May 8, 2020.

“COVID19 Epidemiology Trends,” *Talking Biotech Podcast*, May 4, 2020.

Selected Radio

“Scientists Study How Much A Difference Wearing A Mask Makes” *NPR Morning Edition*, July 21, 2020.

“Coronavirus: Your Questions Answered,” *BBC World Service*, March 26, April 2, April 9, April 16, April 23, April 30, May 7, May 14, 2020.

“Why The True Fatality Rate Of COVID-19 Is Hard To Estimate,” *NPR All Things Considered*, April 24, 2020.

“The Race to Develop a Coronavirus Vaccine,” *WBUR On Point Radio*, April 14, 2020.

Panel Discussion

“COVID-19 Communications: Keeping Up with a Fast Moving Story.” 2020 University Research Magazine Association Conference, July 17, 2020.

“COVID-19 Bending the Curve Series: The Path to a Vaccine.” *McClatchy*, June 4, 2020.

Press Mentions

Quoted in the *Atlantic*, *Associated Press*, *Boston Globe*, *BuzzFeed*, *Financial Times*, *Fortune*, *LA Times*, *Miami Herald*, *National Geographic*, *NBC News*, *New York Times*, *Quanta*

Magazine, PBS NewsHour, Politico, Politifact, Popular Mechanics, ProPublica, Reuters, Science Magazine, Stat News, Tampa Bay Times, Time, USA Today, Vox, Wall Street Journal, Washington Post, WebMD, Wired, and more.

PROFESSIONAL AFFILIATIONS

American Statistical Association	2012–Present
American Association for the Advancement of Science	2018–Present
Eastern North American Region of the International Biometric Society	2018–Present
Caucus for Women in Statistics	2018–Present

Last updated July 27, 2020