

CDC/ATSDR Statistical Science Awards

The Statistical Advisory Group (SAG) sponsors the annual CDC & ATSDR Statistical Science Awards Program to recognize outstanding CDC/ATSDR-related scientific contributions made by statisticians at CDC and ATSDR, which involves an intensive review of nominated peer-reviewed publications written or co-written by CDC/ATSDR statisticians.

The awards date from 1987 and are recognized as career awards by CDC/ATSDR and are unique among CDC/ATSDR awards in that they explicitly and exclusively address the quality of statistical science by working statisticians at CDC/ATSDR and are driven exclusively by the judgment of peer-statisticians at CDC/ATSDR.

The winners, runners-up and other participants are recognized at a ceremony, typically held in the spring or summer of each year. The inclusion of a nationally prominent statistical speaker at the ceremony reinforces and addresses the importance of the quality of statistical science at CDC/ATSDR. The annual frequency of the awards cycle ensures a sustained and regular impact. The Statistical Science Awards recognize sustained, highly visible contributions to the promotion of scientific integrity and quality in the area of statistical theory and applications.

2022 Applied	Sarah A Collier, Li Deng , Elizabeth A Adam, Katharine
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M Benedict, Elizabeth M Beshearse, Anna J Blackstock, Beau B Bruce, Gordana Derado, Chris Edens, Kathleen E Fullerton, Julia W Gargano, Aimee L Geissler, Aron J Hall, Arie H Havelaar, Vincent R Hill, Robert M Hoekstra, Sujan C Reddy, Elaine Scallan, Erin K Stokes, Jonathan S Yoder, Michael J Beach. Estimate of Burden and Direct Healthcare Cost Infections Waterborne Disease in the United States. Emerg Infect Dis. 2021;27(1):140-149. PMID: 33350905

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2022 Theoretical Resnick DM, Cox CS, Mirel LB. Using Synthetic Data to Replace Linkage Derived

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2021 Theoretical Hepworth G, Biggerstaff BJ. Bias Correction in Estimating Proportions by Imperfect

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Foodborne Diseases Active Surveillance Network (FoodNet), USA. Int J Epidemiol. 2018; 47(5):1613-1622. PMID: 29562259 DOI:

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PMC5701520 DOI: 10.1002/sim.7302

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population models with multi-level mixing. Mathematical Biosciences 2017; 287:93-104.

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and related black-white disparities in the US. Epidemiology 2016;27(5):690-696. PMID:

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2017 Theoretical Hu YJ, Liao P, Johnston HR, Allen AS, Satten GA. Testing rare-variant association without

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Matter, and Chronic Lower Respiratory Disease Mortality in the United States. American Journal of Respiratory and Critical Care Medicine 2015;192(3):337-341. PMID: 26017067

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Index. Annals of Applied Statistics 2015;9(2):992-1023. PMID: 26566419 PMCID:

PMC4641042 https://www.jstor.org/stable/24522612

2015 Applied Zhang X, Holt JB, Lu H, Wheaton AG, Ford ES, Greenlund KJ, Croft JB. Multilevel

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2015 Theoretical Li R, Stewart B, Weintraub E, McNeil MM. Continuous Sequential Boundaries for

Vaccine Safety Surveillance. Stat Med. 2014 Aug 30;33(19):3387-97. PMID: 24691986

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Utilizing Internal Validation Data When Both Disease and Exposure Status Are

Misclassified. Epidemiologic Methods 2.1: 49-66. PMID: 25844304 PMCID: PMC4382468

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2007 Applied	A.L. Baughman , K.M. Bisgard , F. Lynn. B.D. Meade. Mixture model Analysis for establishing a diagnostic cut-off point for pertussis antibody levels. Stat Med. 2006 Sep 15; 25(17):2994-3010 PMID: 16345022 https://doi.org/10.1002/sim.2442
2007 Theoretical	Y. Park, J.W. Choi , H.Y. Kim. Forecasting Cause-Age Specific Mortality Using Two Random Processes. Journal of the American Statistical Association, 2006, vol. 101, pages 472-483 https://doi.org/10.1198/016214505000001249
2006 Applied	B.L. Cadwell , P.J. Smith, A.L. Baughman. Methods for capture-recapture analysis when cases lack personal identifiers. Statistics in Medicine 2005;24:2041-2051 PMID: 15816012 https://doi.org/10.1002/sim.2081
2006 Theoretical	A.S. Allen, G.A. Satten , A.A. Tsiatis. Locally-efficient robust estimation of haplotype-disease association in family-based studies. Biometrika 2005; 92:559-571 https://doi.org/10.1093/biomet/92.3.559
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2005 Theoretical	Satten GA , Kong F, Wright DJ, Glynn SA, Schreiber GB. How special is a 'special' interval: Modeling departure from length-biased sampling in renewal processes. Biostatistics 2004;5(1);145-151 PMID: 14744833 https://doi.org/10.1093/biostatistics/5.1.145
2004 Applied	R. L. Smith, S. Kolenikov, L. H. Cox . Spatiotemporal modeling of PM2.5 data with missing values. J. Geophys. Res., 108, 9004, D24. https://doi.org/10.1029/2002JD002914
2004 Theoretical	J. M. Williamson, G. A. Satten, S. Datta. Marginal Analyses of Clustered Data When Cluster Size is Informative. Biometrics 59:36-42 (2003) PMID: 12762439 https://doi.org/10.1111/1541-0420.00005
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2003 Theoretical	C. L. Faucett, N. Schenker , J. M. G. Taylor. Survival Analysis Using Auxiliary Variables Via Multiple Imputation, with Application to AIDS Clinical Trial Data. Biometrics 58:37-47 (2002) https://doi.org/10.1111/j.0006-341X.2002.00037.x
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2001 Theoretical	G. A. Satten , S. Datta. The S-U Algorithm for Missing Data Problems. Computational Statistics 15:243-277 https://doi.org/10.1007/s001800000031
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1995 Theoretical	G. A. Satten , I. M. Longini, Jr. Estimation of Incidence of (H)IV Infection Using Cross-Sectional Marker Surveys. Biometrics 50:675-688 (1994) PMID: 7981394 DOI: 10.2307/2532782 https://www.jstor.org/stable/2532782
1994 Single category	P. J. Smith , D. F. Heitjan. Testing And Adjusting For Departures From Normal Dispersion In Generalized Linear Models. Applied Statistics 42:31-41 (1993) DOI: 10.2307/2347407 https://www.jstor.org/stable/2347407 (PMID/PMCID not found)
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1991 Single category	L. E. Markowitz, J. Sepulveda, J. L. Diaz-Ortega, J. L. Valdespino, P. Albrecht, E. R. Zell, J. A. Stewart, M. L. Zarate, R. H. Bernier. Immunization of Six-Month-Old Infants With Different Doses of Edmonston-Zagreb and Schwarz Measles Vaccines. N Eng J Med 322(9):580-587 (1 March 1990) PMID: 2304505 DOI: 10.1056/NEJM199003013220903
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Associated Acquired Immunodeficiency Syndrome. Proceedings of the National Academy of Sciences 83:3051-3055 (1986) PMID: 3458163 PMCID: <a href="https://pmcs.pmc.ncbe/pmcs.pmc.ncbe/pmcs.pmc.ncbe/pmcs.pmc.ncbe/pmcs.pmc.ncbe/pmcs.pmc.ncbe/pmcs.pmc.ncbe/pmc.ncbe/pmcs.pmc

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