

Mathematical Reviews

Review history of Nicholas T. Longford

72 total reviews

2026 (6 reviews)

- Jun 23 **MR4900161** Jiang, Kuanhao; Mukherjee, Rajarshi; Sen, Subhabrata; Sur, Pragya A new central limit theorem for the augmented IPW estimator: variance inflation, cross-fit covariance and beyond. *Ann. Statist.* **53** (2025), no. 2, 647--675. 62G20 (62D20 62E20 62G05)
- Jun 11 **MR4905256** Kurisu, Daisuke; Ishihara, Takuya; Sugasawa, Shonosuke Adaptively robust small area estimation: balancing robustness and efficiency of empirical Bayes confidence intervals. *Scand. J. Stat.* **52** (2025), no. 2, 999--1017. 62F15 (62C12 62F12 62F25)
- Apr 15 **MR4986929** Butsch, Lucas; Fasen-Hartmann, Vicky Estimation of the number of principal components in high-dimensional multivariate extremes. *Scand. J. Stat.* **52** (2025), no. 4, 2270--2313. 62H25 (62H12)
- Mar 22 **MR4970197** Bercu, Bernard; Bigot, Jérémie; Thurin, Gauthier Stochastic optimal transport in Banach spaces for regularized estimation of multivariate quantiles. *SIAM J. Math. Data Sci.* **7** (2025), no. 4, 1664--1689. 62H12 (49Q22 62G20)
- Feb 17 **MR4959805** Zou, Tao; Lan, Wei; Li, Runze; Tsai, Chih-Ling Fixed and random covariance regression analyses. *Ann. Statist.* **53** (2025), no. 4, 1587--1612. 62H12 (62J02)
- Feb 08 **MR4959072** Green, Alden; Romanov, Elad The high-dimensional asymptotics of principal component regression. *Ann. Statist.* **53** (2025), no. 4, 1697--1727. 62J05 (62H25 62H99 62J07)

2025 (10 reviews)

- Dec 04 **MR4922033** Mosaferi, Sepideh; Ghosh, Malay; Sugasawa, Shonosuke An unbiased predictor for skewed response variable with measurement error in covariate. *Statist. Sinica* **35** (2025), no. 3, 1583--1604. 62D05 (62F40 62J05)
- Oct 24 **MR4900155** Auddy, Arnab; Yuan, Ming Large-dimensional independent component analysis: statistical optimality and computational tractability. *Ann. Statist.* **53** (2025), no. 2, 477--505. 62H25 (62H12)
- Sep 03 **MR4865006** Ignatiadis, Nikolaos; Sen, Bodhisattva Empirical partially Bayes multiple testing and compound χ^2 decisions. *Ann. Statist.* **53** (2025), no. 1, 1--36. 62C12 (62C25 62P10)
- Jun 08 **MR4829141** Kovács, Solt; Li, Housen; Haubner, Lorenz; Munk, Axel; Bühlmann, Peter Optimistic search: change point estimation for large-scale data via adaptive logarithmic queries. *J. Mach. Learn. Res.* **25** (2024), Paper No. [297], 64 pp. 62H12 (62C20)
- Jun 08 **MR4829485** Dey, Anurag; Chaudhuri, Probal Quantile processes and their applications in finite populations. *Ann. Statist.* **52** (2024), no. 5, 2194--2216. 62D05 (60B05 60B10 60F05)
- Apr 16 **MR4805555** Li, Chikun; Jin, Baisuo; Wu, Yuehua Outlier detection via a minimum ridge covariance determinant estimator. *Statist. Sinica* **34** (2024), no. 4, 1923--1950. 62H12 (62G20 62J07)
- Mar 10 **MR4784068** Ding, Yi; Zheng, Xinghua High-dimensional covariance matrices under dynamic volatility models: asymptotics and shrinkage estimation. *Ann. Statist.* **52** (2024), no. 3, 1027--1049. 62H12 (60B20 62J07 62M10 62P05 91B70)
- Mar 10 **MR4777433** Xie, Feng; Huang, Biwei; Chen, Zhengming; Cai, Ruichu; Glymour, Clark; Geng, Zhi; Zhang, Kun Generalized independent noise condition for estimating causal structure with latent variables. *J. Mach. Learn. Res.* **25** (2024), Paper No. [191], 61 pp. 62D20
- Feb 24 **MR4744196** Kennedy, Edward H.; Balakrishnan, Sivaraman; Robins, James M.; Wasserman, Larry

Minimax rates for heterogeneous causal effect estimation. *Ann. Statist.* **52** (2024), no. 2, 793--816. 62D20 (62G08 62G20 62H12)

Feb 03 **MR4718551** Hoff, Peter; McCormack, Andrew; Zhang, Anru R. Core shrinkage covariance estimation for matrix-variate data. *J. R. Stat. Soc. Ser. B. Stat. Methodol.* **85** (2023), no. 5, 1659--1679. 62H12 (15A23)

2024 (6 reviews)

- Nov 22 **MR4582495** Li, Chunlin; Shen, Xiaotong; Pan, Wei Inference for a large directed acyclic graph with unspecified interventions. *J. Mach. Learn. Res.* **24** (2023), Paper No. [73], 48 pp. 62H12 (62H15 65F55)
- Sep 18 **MR4683562** Roy, Vivekananda; Evangelou, Evangelos Selection of proposal distributions for multiple importance sampling. *Statist. Sinica* **34** (2024), no. 1, 27--46. 62-08 (60J05 65C05)
- Jun 05 **MR4661699** McCartan, Cory; Imai, Kosuke Sequential Monte Carlo for sampling balanced and compact redistricting plans. *Ann. Appl. Stat.* **17** (2023), no. 4, 3300--3323. 62D05 (65C05)
- Mar 21 **MR4647036** Hao, Wei; Song, Peter X. K. A simultaneous likelihood test for joint mediation effects of multiple mediators. *Statist. Sinica* **33** (2023), no. 4, 2305--2326. 62H15 (62F05 62F12 62H12)
- Mar 02 **MR4637661** Huang, Melody; Egami, Naoki; Hartman, Erin; Miratrix, Luke Leveraging population outcomes to improve the generalization of experimental results: application to the JTPA study. *Ann. Appl. Stat.* **17** (2023), no. 3, 2139--2164. 62D20 (62G20 62P25)
- Jan 28 **MR4592896** Ugander, Johan; Yin, Hao Randomized graph cluster randomization. *J. Causal Inference* **11** (2023), no. 1, Paper No. 20220014, 53 pp. 62D05

2023 (8 reviews)

- Sep 13 **MR4564859** Richardson, Thomas S.; Evans, Robin J.; Robins, James M.; Shpitser, Ilya Nested Markov properties for acyclic directed mixed graphs. *Ann. Statist.* **51** (2023), no. 1, 334--361. 62H22 (05C20 62D20)
- Aug 22 **MR4564419** Alimohammadi, Yeganeh; Diaconis, Persi; Roghani, Mohammad; Saberi, Amin Sequential importance sampling for estimating expectations over the space of perfect matchings. *Ann. Appl. Probab.* **33** (2023), no. 2, 799--833. 60C05 (05B15 62D05 65C05)
- Aug 02 **MR4543444** Harshaw, Christopher; Sävje, Fredrik; Eisenstat, David; Mirrokni, Vahab; Pouget-Abadie, Jean Design and analysis of bipartite experiments under a linear exposure-response model. *Electron. J. Stat.* **17** (2023), no. 1, 464--518. 62K99 (62D20 62G99)
- Jul 21 **MR4539032** Zhang, Zhiwei; Hu, Zonghui; Follmann, Dean; Nie, Lei Estimating the average treatment effect in randomized clinical trials with all-or-none compliance. *Ann. Appl. Stat.* **17** (2023), no. 1, 294--312. 62G05 (62G20 62P10)
- Jun 23 **MR4530135** Ni, Lyu; Shao, Jun Estimation with multivariate outcomes having nonignorable item nonresponse. *Ann. Inst. Statist. Math.* **75** (2023), no. 1, 1--15. 62H12
- May 22 **MR4524492** Aswani, Anil; Olfat, Matt Optimization hierarchy for fair statistical decision problems. *Ann. Statist.* **50** (2022), no. 6, 3144--3173. 62C12 (49J53 60D05 62F12)
- Apr 28 **MR4505372** Yadlowsky, Steve; Namkoong, Hongseok; Basu, Sanjay; Duchi, John; Tian, Lu Bounds on the conditional and average treatment effect with unobserved confounding factors. *Ann. Statist.* **50** (2022), no. 5, 2587--2615. 62H12 (62F03 62F30 62H15)
- Apr 17 **MR4500636** Galstyan, Tigran; Minasyan, Arshak; Dalalyan, Arnak S. Optimal detection of the feature matching map in presence of noise and outliers. *Electron. J. Stat.* **16** (2022), no. 2, 5720--5750. 62H12 (62F35)

2022 (6 reviews)

- Oct 04 **MR4327332** Park, Seongoh; Wang, Xinlei; Lim, Johan Estimating high-dimensional covariance and precision matrices under general missing dependence. *Electron. J. Stat.* **15** (2021), no. 2, 4868--4915. 62H12 (62D10)
- Jul 28 **MR4415437** Sun, Siying; Yang, Yaohong; Wang, Lei Dimension-reduced empirical likelihood estimation and inference for M-estimators with nonignorable nonresponse. *Statistics* **56** (2022), no. 2, 243--270. 62H12 (62G07 62P10)
- Jun 02 **MR4334023** Bonat, Wagner H.; Petterle, Ricardo R.; Balbinot, Priscilla; Mansur, Alexandre; Graf, Ruth Modelling multiple outcomes in repeated measures studies: comparing aesthetic eyelid surgery techniques. *Stat. Model.* **21** (2021), no. 6, 564--582. 62P10 (62H12)
- May 06 **MR4325171** Di Tillio, Alfredo; Ottaviani, Marco; Sørensen, Peter Norman Strategic sample selection. *Econometrica* **89** (2021), no. 2, 911--953. 62D05 (62B15 62P25)

- Mar 21 **MR4225301** Rosenbaum, Paul R. Design of observational studies. Second edition [of 2561612]. Springer Series in Statistics. *Springer, Cham*, [2020], ©2020. xxvii+547 pp. ISBN: 978-3-030-46404-2; 978-3-030-46405-9 62D20 (62K99 62P10 62P20)
- Jan 18 **MR4180686** Wu, Changbao; Thompson, Mary E. Sampling theory and practice. With a foreword by J. N. K. Rao. ICSA Book Series in Statistics. *Springer, Cham*, [2020], ©2020. xx+365 pp. ISBN: 978-3-030-44246-0; 978-3-030-44244-6 62D05 (62-01)

2021 (6 reviews)

- Oct 28 **MR4233172** Dumitrescu, Laura; Qian, Wei; Rao, J. N. K. Inference for longitudinal data from complex sampling surveys: an approach based on quadratic inference functions. *Scand. J. Stat.* **48** (2021), no. 1, 246--274. 62D05 (62F12)
- Aug 04 **MR4189773** Chen, Yilin; Li, Pengfei; Wu, Changbao Doubly robust inference with nonprobability survey samples. *J. Amer. Statist. Assoc.* **115** (2020), no. 532, 2011--2021. 62D05 (62D20 62G08 62P25)
- Jun 24 **MR4186490** Rosenbaum, P. R. A conditional test with demonstrated insensitivity to unmeasured bias in matched observational studies. *Biometrika* **107** (2020), no. 4, 827--840. 62D20 (62G10)
- May 11 **MR4154997** Orihara, Shunichiro; Hamada, Etsuo Determination of the optimal number of strata for propensity score subclassification. *Statist. Probab. Lett.* 168 (2021), Paper No. 108951, 6 pp. 62D20 (62E20)
- Feb 09 **MR4064139** Wang, Y. Samuel; Drton, Mathias High-dimensional causal discovery under non-Gaussianity. *Biometrika* **107** (2020), no. 1, 41--59. 62D20 (05C90 62A09 62H22)
- Jan 25 **MR4124559** Beaudry, Isabelle S.; Gile, Krista J. Correcting for differential recruitment in respondent-driven sampling data using ego-network information. *Electron. J. Stat.* **14** (2020), no. 2, 2678--2713. 62D05 (62P25)

2020 (4 reviews)

- Nov 24 **MR4084709** Abadie, Alberto; Athey, Susan; Imbens, Guido W.; Wooldridge, Jeffrey M. Sampling-based versus design-based uncertainty in regression analysis. *Econometrica* **88** (2020), no. 1, 265--296. 62J15 (62D20 62E20 62J05 62P25)
- Sep 21 **MR4076350** Torabi, Mahmoud; Jiang, Jiming Estimation of mean squared prediction error of empirically spatial predictor of small area means under a linear mixed model. *J. Statist. Plann. Inference* 208 (2020), 82--93. 62H11 (62D05 62J05)
- May 05 **MR3970334** Yang, Xiaojie; Wang, Qihua Sufficient dimension reduction under dimension-reduction-based imputation with predictors missing at random. *Statist. Sinica* **29** (2019), no. 4, 1751--1778. 62H12 (62J99)
- Jan 27 **MR3994173** Sugawara, Shonosuke; Kubokawa, Tatsuya; Rao, J. N. K. Hierarchical Bayes small-area estimation with an unknown link function. *Scand. J. Stat.* **46** (2019), no. 3, 885--897. 62D05 (62F15 62G05)

2019 (6 reviews)

- Nov 14 **MR3961495** Frot, Benjamin; Nandy, Preetam; Maathuis, Marloes H. Robust causal structure learning with some hidden variables. *J. R. Stat. Soc. Ser. B. Stat. Methodol.* **81** (2019), no. 3, 459--487. 62H20 (62H12 62H99 62P10)
- Sep 10 **MR3939516** Kohler, Ulrich; Kreuter, Frauke; Stuart, Elizabeth A. Nonprobability sampling and causal analysis. *Annu. Rev. Stat. Appl.* 6 (2019), 149--172. 62D05 (62-02)
- Aug 07 **MR3915272** Ding, Peng; Miratrix, Luke W. Model-free causal inference of binary experimental data. *Scand. J. Stat.* **46** (2019), no. 1, 200--214. 62D99 (62F30 62K99)
- Jun 10 **MR3839002** Chen, Min; Thompson, Mary E.; Wu, Changbao Empirical likelihood methods for complex surveys with data missing-by-design. *Statist. Sinica* **28** (2018), no. 4, part 1, 2027--2048. 62D99 (62K99 62P25)
- May 10 **MR3862340** Zhao, Qingyuan; Small, Dylan S.; Rosenbaum, Paul R. Cross-screening in observational studies that test many hypotheses. *J. Amer. Statist. Assoc.* **113** (2018), no. 523, 1070--1084. 62J15 (62H15 62K99)
- Apr 02 **MR3856113** Li, Xinran; Ding, Peng; Rubin, Donald B. Asymptotic theory of rerandomization in treatment-control experiments. *Proc. Natl. Acad. Sci. USA* **115** (2018), no. 37, 9157--9162. 62K99 (62F25 62H99 62J15)

2018 (4 reviews)

- Oct 24 **MR3791446** Pearl, Judea; Mackenzie, Dana The book of why. The new science of cause and effect. *Basic Books, New York*, 2018. x+418 pp. ISBN: 978-0-465-09760-9; 978-0-465-09761-6 62A01 (01A05 68T01)
- Sep 12 **MR3730520** Rosenbaum, Paul R. The general structure of evidence factors in observational studies. *Statist. Sci.* **32** (2017), no. 4, 514--530. 62G10 (20B05 62K99 62P10)
- Jul 26 **MR3768762** Morikawa, Kosuke; Kano, Yutaka Identification problem of transition models for repeated measurement data with nonignorable missing values. *J. Multivariate Anal.* 165 (2018), 216--230. 62H12 (62H99 62J12)
- May 18 **MR3702029** Rosenbaum, Paul R. Observation and experiment. An introduction to causal inference. *Harvard University Press, Cambridge, MA*, 2017. xvi+374 pp. ISBN: 978-0-674-97557-6 62D99 (62-02 62A01 62G10 62K99)

2017 (5 reviews)

- Oct 18 **MR3586018** Raghunathan, Trivellore Missing data analysis in practice. Chapman & Hall/CRC Interdisciplinary Statistics Series. *CRC Press, Boca Raton, FL*, 2016. xix+210 pp. ISBN: 978-1-4822-1192-4 62D05 (62-01 62Jxx)
- Sep 20 **MR3626074** Jiang, Zhichao; Ding, Peng The directions of selection bias. *Statist. Probab. Lett.* 125 (2017), 104--109. 62F99 (62P10 62P12)
- Jul 06 **MR3560738** Hsiao, Cheng Analysis of panel data. Third edition. For the second edition see [MR1962511]. Econometric Society Monographs, 54. *Cambridge University Press, New York*, 2014. xxi+538 pp. ISBN: 978-1-107-65763-2; 978-1-107-03869-1 62-01 (62Fxx 62J05 62M10)
- Apr 10 **MR3543320** Zhu, Rong; Zou, Guohua; Liang, Hua; Zhu, Lixing Penalized weighted least squares to small area estimation. *Scand. J. Stat.* **43** (2016), no. 3, 736--756. 62J99 (62D99 62G35)
- Mar 20 **MR3538683** Forastiere, Laura; Mealli, Fabrizia; VanderWeele, Tyler J. Identification and estimation of causal mechanisms in clustered encouragement designs: disentangling bed nets using Bayesian principal stratification. *J. Amer. Statist. Assoc.* **111** (2016), no. 514, 510--525. 62P10 (62D05)

2016 (4 reviews)

- Dec 15 **MR3468671** Mukhopadhyay, Parimal Complex surveys. Analysis of categorical data. *Springer, [Singapore]*, 2016. xv+248 pp. ISBN: 978-981-10-0870-2; 978-981-10-0871-9 62D05 (62H17 62H30)
- Oct 24 **MR3493016** Tsukuma, Hisayuki Estimation of a high-dimensional covariance matrix with the Stein loss. *J. Multivariate Anal.* 148 (2016), 1--17. 62J07 (62C12 62H12)
- Jun 09 **MR3449069** Datta, Gauri Sankar; Mandal, Abhyuday Small area estimation with uncertain random effects. *J. Amer. Statist. Assoc.* **110** (2015), no. 512, 1735--1744. 62D05 (62F15 62G10 62P20)
- Mar 04 **MR3380626** Rao, J. N. K.; Molina, Isabel Small area estimation. Second edition. With a foreword by Graham Kalton. Wiley Series in Survey Methodology. *John Wiley & Sons, Inc., Hoboken, NJ*, 2015. xxx+441 pp. ISBN: 978-1-118-73578-7 62-02 (60J22 62C12 62D05 62F10 62F15 62J12 62M10)

2015 (1 review)

- May 04 **MR3241297** Weihs, Claus; Mersmann, Olaf; Ligges, Uwe Foundations of statistical algorithms. With references to R packages. Chapman & Hall/CRC Computer Science and Data Analysis Series. *CRC Press, Boca Raton, FL*, 2014. xxvi+473 pp. ISBN: 978-1-4398-7885-9 62-01 (62-04 65C60 68Q05)

2014 (4 reviews)

- Nov 11 **MR3186498** Chambers, Raymond L.; Clark, Robert G. An introduction to model-based survey sampling with applications. Oxford Statistical Science Series, 37. *Oxford University Press, Oxford*, 2012. xiv+265 pp. ISBN: 978-0-19-856662-5 62D05 (62-07 62F35)
- Sep 16 **MR3161723** Farcomeni, Alessio; Scacciarelli, Daria Heterogeneity and behavioral response in continuous time capture-recapture, with application to street cannabis use in Italy. *Ann. Appl. Stat.* **7** (2013), no. 4, 2293--2314. 62N01 (62N02 62P25)
- May 08 **MR3100051** Chaudhuri, Arijit; Christofides, Tasos C. Indirect questioning in sample surveys. *Springer, Heidelberg*, 2013. xiv+177 pp. ISBN: 978-3-642-36275-0; 978-3-642-36276-7 62D05 (62P25)
- Mar 03 **MR3088726** Valliant, Richard; Dever, Jill A.; Kreuter, Frauke Practical tools for designing and weighting survey samples. Statistics for Social and Behavioral Sciences. *Springer, New York*, 2013. xxii+670 pp. ISBN: 978-1-4614-6448-8; 978-1-4614-6449-5 62D05 (62-01)

2013 (2 reviews)

- Oct 03 **MR3024320** Courgeau, Daniel Probability and social science. Methodological relationships between the two approaches. Methodos Series, 10. *Springer, Dordrecht*, 2012. xxxiv+308 pp. ISBN: 978-94-007-2878-3; 978-94-007-2879-0 60A99 (60-03 62P25 91A60 91D20)
- Jul 16 **MR2988906** Cai, T. Tony; Jeng, X. Jessie; Li, Hongzhe Robust detection and identification of sparse segments in ultrahigh dimensional data analysis. *J. R. Stat. Soc. Ser. B. Stat. Methodol.* **74** (2012), no. 5, 773--797. 92D20 (62P10 94A12)