

CURRICULUM VITAE

for Bo Henry Lindqvist

Last updated July 2024

Department address:

Department of Mathematical Sciences
Norwegian University of Science and Technology (NTNU) N-7491 Trondheim, Norway
E-mail: bo.lindqvist@ntnu.no
Homepage: <https://www.ntnu.no/ansatte/bo.lindqvist>

Home address:

Kurveien 40, N-0495 Oslo
Phone: + 47 97589418

Personal facts:

Born: May 7, 1951
Place of birth: Skien, Norway
Citizenship: Norwegian

Academic degrees:

1982: Dr. philos. (Ph.D.) in statistics, University of Oslo. Title of dissertation: "On the memory of a Markov chain. A decision theoretical approach".
1975: M.Sc. in statistics, University of Oslo.

Positions held:

2021 – : Professor emeritus, Department of Mathematical Sciences, Norwegian University of Science and Technology (NTNU), Trondheim
1988 - 2021: Professor in Statistics, Department of Mathematical Sciences, NTNU, Trondheim
1979 - 88: Associate Professor, Department of Mathematical Statistics, Norwegian Institute of Technology (NTH), Trondheim, Norway.
1978 - 79 Research Fellow, Department of Mathematics, University of Oslo.
1976 - 78 Assistant professor, Department of Mathematics, University of Oslo.
1974 - 75 Research assistant, Department of Mathematics, University of Oslo.

Adjoint positions:

2010 - 2021: Adjoint professor in risk and reliability analysis, Department of Mathematics, University of Oslo.
2007- 09 Adjoint researcher, Department of Mathematics, University of Oslo.
1985- 90 Scientific advisor, SINTEF Safety and Reliability, Trondheim

Fellowships and awards:

2019: Sverdrup Award, Norwegian Statistical Association
2012: Fellow of The American Statistical Association
1975: Cand. real. prae ceteris (citation for the King), Department of Mathematics, University of Oslo

Research interests:

Theoretical statistics

Stochastic modeling and Markov processes
Reliability theory and applications
Survival analysis and biostatistics
Matrix theory

Professional work:

Journal editorial work:

Editor-in-Chief, *Scandinavian Journal of Statistics* 2007 - 2009.
Guest editor of special issue of *Applied Stochastic Models in Business and Industry* (conference MMR 2017)
Associate Editor, *Naval Research Logistics*, 2011 -
Associate Editor, *Lifetime Data Analysis*, 2010 – Joint editor of special issue on Competing Risks, 2014
Associate Editor, *Journal of Statistical Planning and Inference*, 2002-2007.
Associate Editor, *Scandinavian Journal of Statistics* 1991 – 1997.

Book editorial work:

Editor-in-Chief, *Series on Mathematics and Statistics*, ISTE/Wiley, 2013-
Member of Editorial Board of the volume “*Abstraction and Applications – the 100 Years History of Mathematics at Norwegian University of Science and Technology*” by Magne Brekke Rabben, 2010-2011.
Editor of the volume *Mathematical and Statistical Methods in Reliability*, World Scientific Publishing, 2002-2003.
Editor of *Statistisk Sett*, 50th anniversary volume, Norwegian Statistical Society, 1986.

Referee work for journals:

Annals of Statistics, Applied Stochastic Models in Business and Industry, Biometrical Journal, Biometrics, Biometrika, European Journal of Operational Research, IEEE Reliability, IIE Transactions, Journal of Computational and Graphical Statistics, Journal of the Iranian Statistical Association, Journal of Multivariate Analysis, Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, Journal of the American Statistical Association, Lifetime Data Analysis, Linear Algebra and Applications, Methodology & Computing in Applied Probability, Probability in the Engineering and Informational Sciences, Reliability Engineering and System Safety, Scandinavian Journal of Statistics, Statistical Inference for Stochastic Processes, Statistica Sinica, Statistics, Statistics in Medicine, Stochastic Models, Technometrics, Wind Energy.

Chairman for conference:

Chairman for Third International Conference on Mathematical Methods in Reliability, MMR, Trondheim, June 17-20, 2002.
Chairman of the Biannual Meeting of the Norwegian Statistical Society, Bø i Telemark, June 1981.

Member of international committees:

Member of Program Committee, ASMDA 2019, 18th Conference of the Applied Stochastic Models and Data Analysis, Florence, Italy
Member of Program Committee, SMTDA 2018, 5th **Stochastic Modeling Techniques and Data Analysis International Conference**, Chania, Crete, Greece.

Member of Program Committee, Mathematical Methods in Reliability 2017, Grenoble, France
 Member of Management Committee and core group for the COST network: “Expert Judgment Network: Bridging the Gap Between Scientific Uncertainty and Evidence-Based Decision Making” (IS1304, 2013-2017)
 Member of Program Committee, Mathematical Methods in Reliability 2015, Tokyo, Japan
 Member of Program Committee, Mathematical Methods in Reliability 2013, Stellenbosch, South Africa
 Member of Program Committee, Mathematical Methods in Reliability 2011, Beijing, China
 Analysis International Conference, June 8 - 11 2010, Chania, Crete, Greece.
 Member of Program Committee, European Safety and Reliability Conferences (ESREL) 2003, 2005, 2007.
 Member of Program Committee, The 3rd Safety and Reliability International Conference (KONBIN 2003), May 26-30, 2003, Gdynia, Poland.
 Member of Program Committee, 2nd Euro-Japanese Workshop on Stochastic Modelling for Finance, Insurance, Production and Reliability, September 18 - 20, 2002, Chamonix, France.

Sabbatical research visits:

2017-2018: Department of Statistics, University of California, Davis
 2011-2012: Department of Statistics, University of California, Davis
 Spring 2008: Department of Statistics, Stanford University, USA.
 Fall 2007: Department of Biostatistics, University of Oslo
 Fall 2005: Centre for Advanced Study at the Norwegian Academy of Science and Letters, Oslo
 Spring 2000: Department of Statistics, Stanford University, USA
 1990-1991: Department of Statistics, Stanford University, USA.
 1983-1984: Department of Statistics, Stanford University, USA.
 1978-1979: Department of Statistics, University of California, Berkeley.

Supervised PhD-students (finish year)

Tor Stålthane	1988
Lars Bodsberg	1993
Mette Langaas	1995
Randi Hammervold (co-supervisor)	1999
Jan Terje Kvaløy	1999
Georg Elvebakk	1999
Helge Langseth	2002
Solomon Gebrechristos Tedla	2007
Harald Weedon-Fekjær (co-supervisor, UiO)	2008
Anastasia Ushakova	2009
Rupali Rajendra Akerkar (co-supervisor)	2012
Zeytu Gashaw (co-supervisor)	2014
Vaclav Slimacek	2015
Céline Marie Løken Cunen (co-supervisor, UiO)	2018
Ioannis Vardaxis	2019
Rasmus Erlemann	2021

Professional societies:

The American Statistical Association (fellow)
The Royal Norwegian Society of Sciences and Letters (elected)
International Statistical Institute (elected)
Bernoulli Society for Mathematical Statistics and Probability
The International Society for Business and Industrial Statistics
The Norwegian Statistical Society

Administrative work:

2013-2017: Member of leader group, Department of Mathematical Sciences, NTNU
2013-2017: Chair of statistics section, Department of Mathematical Sciences, NTNU
2008-2014: Board member, program committee for math sciences programs, Department of Mathematical Sciences, NTNU
2005-2007: Advisory board member, HUNT (The Nord-Trondelag Health Study).
2003-2007: Member of Research Advisory Group of Norwegian Mathematical Council.
2003-2006: Chair of statistics section, Department of Mathematical Sciences, NTNU
1999-2001: Board member, Department of Mathematical Sciences, NTNU
1997-1999: Chair of statistics section, Department of Mathematical Sciences, NTNU
1995-1998: Member of Education Council of Faculty of Physics and Mathematics, NTNU
1993-1996: Chair of education program in Industrial Mathematics, Department of Mathematical Sciences, NTNU
1991 -1994: Member of research council of Faculty of Physics and Mathematics, NTNU
1992- 2000: Member, Central board of Safety and Reliability Research and Education, NTH
1991 -1996: Board member, Scandinavian Journal of Statistics
1988-1990: Chair of statistics section, Department of Mathematical Sciences, NTH
1987-1989: Chair of Norwegian Statistical Society
1985-1987: Board member, Norwegian Statistical Society
1981-1983: Board member, Faculty of Science (Almenavdelingen), NTH.
1980-1983: Chair of Department of Mathematical Statistics, NTH
1981-1983: Chair of Mathematics Section, NTH

Evaluation committees (PhD, HDR):

University of Oslo, Norway (April 2024)
Norwegian University of Science and Technology, Trondheim, Norway (January 2023)
Université de Technologie de Troyes, France (December 2022)
Norwegian University of Science and Technology, Trondheim, Norway (September 2021)
Université Grenoble Alpes, France (March 2018) *HDR*
Université de Rouen Normandie, France (December 2017) *HDR*
Norwegian University of Science and Technology, Trondheim, Norway (March 2017)
Grenoble Institute of Technology, France (October 2014)
Norwegian University of Science and Technology, Trondheim, Norway (September 2014)
Université de Technologie de Troyes, France (December 2013) *HDR*
Technical University of Delft, Netherlands (May 2013)
University of Oslo, Norway (May 2011)
Université Victor Segalen, Bordeaux2, Bordeaux, France (December 2010)
University of Strathclyde, Glasgow, Scotland (November 2010)

Have been member of evaluation committees for professorships/associate professorships at:

University of South-Eastern Norway (2022, 16 appl.)
National committee for promotion to professor (2016-17, 1 appl.)
University of Oslo (2016, 2 positions)
University College of South East Norway (2016)

University of South Carolina, Columbia (2014)
Aalto University, Finland (2013)
University of California, Davis (2008)
Indian Statist. Institute, Kolkata (2008)
Grenoble Institute of Technology,
France University of Oslo, Norway
University of Bergen, Norway
University of Stavanger, Norway
University of Tromsø, Norway
Norwegian University of Life Sciences, Ås, Norway
University Colleges in Telemark, Molde and Nord-Trøndelag

Other:

2011-2017: “Expert” in Nowitech (Norwegian Research Centre for Offshore Wind Technology),
WP5 (Operation and maintenance).

Teaching:

Organized and lectured courses in statistics at all levels, including international graduate courses
(at University of Oslo, University of Stavanger, Norwegian University of Science and Technology)
Supervised 87 Master theses 1981-2020; 16 Master theses 2014-2020.

Prizes won by my supervised project/master students:

Tryg-prisen for best master thesis in Risk- and Safety at NTNU,
1994 Knut Heggland
1995 Haavard Brandt, Morten Korsaksel and Gustav Rosland
2010 Guri Sundgot Halvorsen

Updated July 2024

Book

1. Applied Nonparametric Statistics in Reliability (Springer Series in Reliability Engineering) by M. Luz Gamiz, K. B. Kulasekera, Nikolaos Limnios, and Bo Henry Lindqvist, 2011.
2. Mathematical and Statistical Methods in Reliability (World Scientific Publishing. Series on Quality, Reliability and Engineering Statistics, Vol. 7). Edited by Bo H. Lindqvist and Kjell A. Doksum, 2003.

Published journal papers, book chapters etc.

1. Discussion of E. Torgersen's paper: Comparison of statistical experiments. Scand. J. Statist. 3, 186-208 (1976).
2. How fast does a Markov chain forget the initial state? A decision theoretical approach. Scand. J. Statist. 4, 145-152 (1977).
3. On the loss of memory incurred by lumping states of a Markov chain. Scand. J. Statist. 5, 92-98 (1978).
4. A decision theoretical characterization of weak ergodicity. Z. Wahrscheinlichkeits- theorie verw. Gebiete 44, 155-158 (1978).
5. A note on Bernoulli trials with dependence. Scand. J. Statist. 5, 205-208 (1978).
6. Ergodic Markov chains with finite convergence time. Stoch. Processes Appl. 11, 91-99 (1981).
7. On the memory of a Markov chain. Proceedings of the Seventh Conference on Probability Theory, August 29 - September 4, 1982, Brasov, Romania. Editura Academiei Republicii Socialiste Romania, Bucuresti (1984).
8. On the memory of an absorbing Markov chain. Revue Roumaine Math. Pures et Appliquée, 171-182 (1984).
9. Asymptotic efficiency of the Spearman estimator and characterizations of distributions. Ann. Inst. Statist. Math., 39, 349-361 (1987). (Co-author: Z. Govindarajulu).
10. On the memory of certain transformations of a Markov chain. Revue Roumaine Math. Pures et Appl. 32, 435-450 (1987).
11. Nonnegative multiplicative processes reaching stationarity in finite time. Linear Algebra Appl. 86, 75-90 (1987).

12. Monotone and associated Markov chains, with applications to reliability theory. *J. Appl. Prob.* 24, 679-695 (1987).
13. Monotone Markov models. *Reliability Engineering* 17, 47-58, 1987.
14. SCSSV Reliability Tested in North Sea. *Petroleum Engineer International*, November 1987, p. 38-42. (Co-authors: Einar Molnes, Marvin Rausand).
15. Association of probability measures on partially ordered spaces. *Journal of Multivariate Analysis* 26, 111-132 (1988).
16. Estimation and testing in Markov models for repairable systems with positively dependent components. (Paper in honour of Professor Erling Sverdrup on his 70th birthday). *Scand. J. Statist.* 15, 243-257 (1988).
17. Analysis of SCSSV Performance Data. *Reliability Engineering and System Safety*, 20, 1988, p. 3-17. (Co-authors: Einar Molnes, Marvin Rausand).
18. Asymptotic properties of powers of nonnegative matrices, with applications. *Linear Algebra Appl.* 114/115, 555-588 (1989).
19. An exponential regression model for censored failure data: Estimation and graphical model checking. In: (Terje Aven, editor) *Reliability Achievement: The Commercial Incentive*, pp. 192-202, Elsevier Applied Science, London, 1989. (Co-author: H. Tjelmeland).
20. Moment inequalities for the reliability function. *Statistics & Probability Letters*, 13, 85-88 (1992).
21. Markov chains on hypercubes: Spectral representations and several majorization relations. *Random Structures and Algorithms*, 4, 1-36 (1993). (Co-authors: S. Karlin og Yi-Ching Yao).
22. The minimal path upper bound for the moments of a reliability function. *Scandinavian Journal of Statistics*, 21, 83-90 (1994).
23. On the uncertainty of a system reliability estimate. *Reliability Engineering and System Safety*, 46 (1994).
24. On the prognostic value of systemic methotrexate clearance in childhood acute lymphocytic leukemia. *Leukemia Research*, 21, 429-434 (1997). (Co-authors: H. Seidel, R. Nygaard, P.J. Moe, G. Jacobsen, L. Slørdal).
25. TTT-based tests for trend in repairable systems data. *Reliability Engineering and System Safety*, 60, 13-28 (1998). (Co-author: Jan Terje Kvaløy).
26. Uncertainty bounds for a monotone multistate system. *Probability in the Engineering and Informational Sciences*, 12, 239-260 (1998). (Co-author: Helge Langseth).
27. Statistical Modeling and Analysis of Repairable Systems. In: Ionescu, V. and Limnios, N. (editors):

Statistical and Probabilistic Methods in Reliability. Birkhauser Boston, 1999.

28. Markov models for periodically tested components. In: Lydersen, S., Hansen, G.K. and Sandtorv, H.A. (editors): Safety and Reliability. Proceedings of the European Conference on Safety and Reliability - ESREL '98, Trondheim/Norway/16-19 June 1998, pp 191-197. Balkema. (Co-author: Henriette Amundrustad).
29. Modeling the occurrence of cardiac arrest as a Poisson process. *Annals of Emergency Medicine*, 33, 409-417 (1999). (Co-author: Eirik Skogvoll).
30. Repairable systems with general repair. In: Schueller, G.I. and Kafka, P. (editors): Safety and Reliability. Proceedings of the European Conference on Safety and Reliability - ESREL '99, Munich, 13-17 September 1999. Balkema.
31. Variability in methotrexate serum and cerebrospinal fluid pharmacokinetics in children with acute lymphocytic leukemia: Relation to assay methodology and physiological variables. *Leukemia Research*, 24, 193-199 (2000). (Co-authors: H. Seidel, R. Nygaard, P.J. Moe, G. Jacobsen, J.T. Kvaløy, L. Slørdal).
32. A statistical test for monotonic and non-monotonic trend in repairable systems, in E. Zio, M. Demichela & N. Piccinini (eds), Safety and Reliability, Proceedings of ESREL 2001, Vol. 3, 1563-1570, Torino, Italy, September 16-20, 2001. (Co-authors: J.T. Kvaløy and H. Malmedal).
33. Maintenance study for components under competing risks, in Proceedings of ESREL 2002. (Co-authors: C. Bunea and R. M. Cooke).
34. On comparison of the Perron-Frobenius eigenvalues of two ML-matrices. *Linear Algebra Appl.* 353, 257-266 (2002).
35. The trend-renewal process for statistical analysis of repairable systems. *Technometrics* 45, 31-44 (2003). (Co-authors: Georg Elvebakk and K. Heggland).
36. Estimation and inference in nonparametric Cox-models: Time transformation methods. *Computational Statistics* 18, 205-221 (2003). (Co-author: Jan Terje Kvaløy).
37. A counterexample to a claim about stochastic simulations. *Biometrika* 90, 489-490 (2003). (Co-authors: Gunnar Taraldsen, Magnar Lillegård and Steinar Engen).
38. Competing risk perspective on reliability databases. In: Mathematical and Statistical Methods in Reliability. Bo H Lindqvist and Kjell A Doksum (Eds.) Series on Quality, Reliability and Engineering Statistics, Vol. 7, World Scientific Publishing, Singapore, 2003, pp 355-370. (Co-authors C. Bunea and Roger Cooke.)
39. A class of tests for renewal process versus monotonic and nonmonotonic trend in repairable system data. In: Mathematical and Statistical Methods in Reliability. Bo H Lindqvist and Kjell A Doksum (Eds.) Series on Quality, Reliability and Engineering Statistics, Vol. 7, World Scientific Publishing, Singapore, 2003, pp 401-414. (Co-author: J. T. Kvaløy).

40. A maintenance model for components exposed to several failure mechanisms and imperfect repair. In: Mathematical and Statistical Methods in Reliability. Bo H Lindqvist and Kjell A Doksum (Eds.) Series on Quality, Reliability and Engineering Statistics, Vol. 7, World Scientific Publishing, Singapore, 2003, pp 415-430. (Co-author: H. Langseth).
41. Bounds for the reliability of multistate systems with partially ordered state spaces and stochastically monotone Markov transitions. Invited paper. Special Issue on Multi-State Systems Reliability in International Journal of Reliability, Quality and Safety Engineering 10, 235-248 (2003).
42. The covariate order method for nonparametric exponential regression and some applications in other lifetime models. In: Parametric and Semi-parametric Models with Applications to Reliability, Survival Analysis, and Quality of Life. M. S. Nikulin, N. Balakrishnan, M. Mesbah, and Nikolaos Limnios (Eds.) Series on Statistics for Industry and Technology. Birkhauser Boston, Cambridge, MA. (Co-author: J. T. Kvaloy).
43. The Identifiability Problem for Repairable Systems Subject to Competing Risks. Advances in Applied Probability 36, 774-790 (2004). (Co-author: Tim Bedford).
44. Monte Carlo conditioning on a sufficient statistic. Biometrika 92, 451-464, 2005 (Co-author: Gunnar Taraldsen).
45. Estimating the Proportion of True Null Hypotheses, with Application to DNA Microarray Data. Journal of Royal Statistical Society Ser. B 67, 555-572, 2005 (Co-authors: Mette Langaas and Egil Ferkingstad).
46. Estimating mean sojourn time and screening test sensitivity in breast cancer mammography screening; new results. Journal of Medical Screening, 2005, Vol 12, nr 4, 172-178. (Co-authors: Harald Weedon-Fekjaer (first author), Lars Vatten, Odd Aalen, Steinar Tretli).
47. Failure modeling and maintenance optimization for a railway line. International Journal of Performability Engineering,, Vol. 1, No. 1, July 2005, 51-64. (Co-authors: Per Hokstad, Helge Langseth, Jørn Vatn).
48. Statistical modelling and inference for component failure times under preventive maintenance and independent censoring. In: Mathematical and Statistical Methods in Reliability. Proceedings of MMR 2004, World Scientific Publishing, Singapore, 2005, pp 319-333. (Co-author: Helge Langseth.)
49. Modelling of dependence between critical failure and preventive maintenance: The repair alert model. Journal of Statistical Planning and Inference 136(5), 1701-1717 (2006). (Co-authors: Baard Stove and Helge Langseth.)
50. Competing risks for repairable systems: A data study. Journal of Statistical Planning and Inference 136(5), 1687-1700 (2006). (Co-author: Helge Langseth.)
51. On the Statistical Modeling and Analysis of Repairable Systems. Statistical Science 21, 2006, 532-551.

52. Competing Risks. In: Encyclopedia of Statistics in Quality and Reliability, Ruggeri, F., Kenett, R. and Faltin, F. W. (eds). John Wiley & Sons Ltd, Chichester, UK, pp 335-341, 2007. Extended version.
53. A nonparametric monotone maximum likelihood estimator of time trend for repairable systems data. Reliability Engineering and System Safety 92 (2007) 575-584 Special issue on Stochastic Processes in Reliability. (Co-author: Knut Heggland).
54. Conditional Monte Carlo Based on Sufficient Statistics with Applications. In: Advances in statistical modeling and inference. Essays in Honor of Kjell A. Doksum. Editor: Vijay Nair. pp. 545-562, 2007. (Co-author: Gunnar Taraldsen).
55. Maintenance of repairable systems. Chapter 10 in Complex System Maintenance Handbook, edited by K.A.H. Kobbacy and D.N.P. Murthy. Springer Series in Reliability Engineering, 2008, pp 235-261.
56. Breast cancer tumor growth estimated through mammography screening data. Breast Cancer Research, 2008, 10:R41. (Co-authors: Harald Weedon-Fekjaer (first author), Odd Olai Aalen, Lars Johan Vatten, Steinar Tretli).
57. Estimating mean sojourn time and screening sensitivity using questionnaire data on time since previous screening. Journal of Medical Screening. Available online <http://breast-cancer-research.com/content/10/3/R41> (2008). (Co-authors: Harald Weedon-Fekjaer (first author), Odd Olai Aalen, Lars Johan Vatten, Steinar Tretli).
58. Growth rates in epidemic models: Application to a model for HIV/AIDS progression. Statistics in Medicine, 2008, vol 27, 4817-4834. (Co-authors: Jon Michael Gran (first author), Linn Wasmuth, Ellen J. Amundsen, Odd O. Aalen).
59. Competing risks in repairable systems. In Advances in Mathematical Modeling for Reliability. Edited by T. Bedford, J. Quigley, L. Walls, B. Alkali, A. Daneshkhah and G. Hardman. IOS Press, Amsterdam, 2008, pp. 80-87.
60. Modeling of Dependent Competing Risks by First Passage Times of Wiener Processes. IIE Transactions, 2009, vol 41, 72-80. (Co-author: Guro Skogsrud).
61. Improper priors are not improper. The American Statistician, 2010, vol 64(2), 154-158. (Co-author: Gunnar Taraldsen).
62. Nonparametric estimation of time trend for repairable systems data. In: Mathematical and Statistical Methods in Reliability. Applications to Medicine, Finance, and Quality Control. (Eds. Balakrishnan, N., Nikulin, M. and Rykov, V). Birkhauser, Boston, 2010, pp. 277-288.
63. Monte Carlo exact goodness-of-fit tests for nonhomogeneous Poisson processes. Applied Stochastic Models in Business and Industry, 2011, vol 27(3), 329-341. DOI: 10.1002/asmb.841 (Co-author: Bjarte Rannestad).

64. Empirical Bayes estimator for endocardial edge detection in 3D+T echocardiography. ISBI 2012 (International Symposium on Biomedical Imaging). (Co-authors: Engin Dikici (first author) and Fredrik Orderud).
65. Exact statistical inference for some parametric nonhomogeneous Poisson processes. Invited paper for special issue on Recurrent Events, Journal of the Iranian Statistical Society, 2013, Vol. 12, No. 1. (Co-author: Gunnar Taraldsen).
66. On random signs censoring and clinical trials. Invited paper for special issue honoring Professor Jayant V. Deshpande, Journal of the Indian Statistical Association. , 2013, Vol. 51, No. 1.
67. Fiducial theory and optimal inference. *Annals of Statistics*, 2013, Vol. 41, No. 1, 323-341. (Co-author: Gunnar Taraldsen).
68. Residuals and functional form in accelerated life regression models. In: Risk Assessment and Evaluation of Predictions, T. Cai, M. Gail, A. Gandy, Mei-Ling Lee, R. Pfeiffer, and G. Satten (editors). Springer Science+Business Media B.V. 2013, pp. 61-65. (Co-authors Aaserud, S., Kvaløy, J.T. and Lindqvist, B.H.).
69. Failure prediction for monitored systems. In: Proceedings of the European Safety and Reliability Conference, ESREL 2013, Safety, Reliability and Risk Analysis: Beyond the Horizon. CRC Press 2014. (Co-author: Vaclav Slimacek).
70. Failure rate of wind turbines modeled by homogeneous Poisson process with covariates and unobserved heterogeneity. In: *Proceedings of the European Safety and Reliability Conference, ESREL 2013, Safety, Reliability and Risk Analysis: Beyond the Horizon*. CRC Press 2014. (Co-author: Vaclav Slimacek, first author).
71. Phase-Type distributions for competing risks. *Proceedings 59th ISI World Statistics Congress, 25-30 August 2013, Hong Kong*.
72. Fiducial and posterior sampling. *Communications in Statistics: Theory and Methods*, 2014 (to appear). (Co-author: Gunnar Taraldsen).
73. Bayesian estimation of HIV-1 dynamics in vivo. *Mathematical Medicine and Biology*, 2014 (published online). (Co-authors: Anastasia Ushakova (first author), Frank Olav Pettersen, Arild Mæland, Dag Kvale).
74. Residual plots to reveal the functional form for covariates in parametric accelerated failure time models. *Lifetime Data Analysis* 2014, 1-26. (Co-authors: Jan Terje Kvaløy and Stein Aaserud).
75. On the signature of a system under minimal repair. *Applied Stochastic Models in Business and Industry*, 2015, 31.3: 297-306. (Co-author: Francisco J. Samaniego)
76. Unobserved heterogeneity in the power law nonhomogeneous Poisson process. *Reliability Engineering & System Safety* 2015 ;Volum 134. s. 59-65 (Co-author: Zeytu G. Asfaw).
77. Extending minimal repair models for repairable systems: A comparison of dynamic and heterogeneous extensions of a nonhomogeneous Poisson process. *Reliability Engineering & System Safety* 2015 ;Volum 140. (Co-author: Zeytu G. Asfaw). 53-58.

78. Fiducial and Posterior Sampling. *Communications in Statistics-Theory and Methods* 2015 44(17), 3754-3767. (Co-author: Gunnar Taraldsen).
79. Nonhomogeneous Poisson process with nonparametric frailty. *Reliability Engineering & System Safety* 2016 ;Volum 149. s. 14-23. (Co-author: Václav Slimáček).
80. Nonparametric estimation in trend-renewal processes. *Reliability Engineering & System Safety* 2016 Volum 145. s. 38-46. (Co-author: M. Luz Gamiz).
81. Conditional probability and improper priors. *Communications in Statistics - Theory and Methods* 2016, 45(17), p. 5007-5016. (Co-author: Gunnar Taraldsen).
82. Reliability of wind turbines modeled by a Poisson process with covariates, unobserved heterogeneity and seasonality. *Wind Energy* 2016, 19 (11), p. 1991–2002. (Co-author: Václav Slimáček).
83. On the equivalence of systems of different sizes, with applications to system comparison. *Advances in Applied Probability* 2016, 48(2), p. 332-348. (Co-authors: Francisco J. Samaniego and Arne B. Huseby).
84. Nonhomogeneous Poisson process with nonparametric frailty and covariates. *Reliability Engineering & System Safety* 2017; Vol. 167. p. 75-83. (Co-author: Václav Slimáček).
85. On the proper treatment of improper distributions. *Journal of Statistical Planning and Inference* (online) 2018 ;Vol. 195. p. 93-104. (Co-author: Gunnar Taraldsen).
86. Conditional fiducial models. *Journal of Statistical Planning and Inference* 2018 ;Vol. 195. p. 141-152. (Co-author: Gunnar Taraldsen).
87. Phase-Type Models and Their Extension to Competing Risks. In: *Recent Advances in Multi-state Systems Reliability: Theory and Applications*. Springer Series in Reliability Engineering, 2018, pp. 107-120. (Co-author: Susanne Hodneland Kjølén).
88. Modeling of semi-competing risks by means of first passage times of a stochastic process. *Lifetime Data Analysis* 2018, 24(1), p. 153-175. Special issue in honor of Jack Kalbfleisch. (Co-author: Beate Sildnes).
89. End of Performance Prediction of Lithium-ion Batteries. *Journal of Quality Technology*, 2019; 51(2): 198-213. (Co-authors: Yi-Fu Wang, Sheng-Tsaing Tseng, Kwok-Leung Tsui).
90. MACPET: model-based analysis for ChIA-PET. *Biostatistics*, kxy084, <https://doi.org/10.1093/biostatistics/kxy084>. (Co-authors: Ioannis Vardaxis, Finn Drabløs, Morten Beck Rye).
91. Preservation of the mean residual life order for coherent and mixed systems. *Journal of Applied Probability* 2019; 56(1): 153-173. (Co-authors: Francisco J. Samaniego and Nana Wang).

92. Foreword. Special issue of ASMBI dedicated to the 10th International Conference on Mathematical Methods in Reliability (MMR 2017). *Appl Stochastic Models Bus Ind.* 2019; 35: 156– 157. <https://doi.org/10.1002/asmb.2448>. (Co-author: Olivier Gaudoin.)
93. A class of tests for trend in time censored recurrent event data. *Technometrics* 2019; 62(1): 101-115. (Co-author: Jan Terje Kvaløy).
94. Systematic assessment of prescribed medications and short-term risk of myocardial infarction – a pharmacopeia-wide association study from Norway and Sweden. *Scientific Reports*, 2019, 9.1: 1-10. (Co-authors: Abhijit Sen, Ioannis Vardaxis, Ben Michael Brumpton, Linn Beate Strand, Inger Johanne Bakken, Lars Johan Vatten, Pål Richard Romundstad, Rickard Ljung, Kenneth Jay Mukamal, Imre Janszky).
95. Some new results on the preservation of the NBUE and NWUE aging classes under the formation of coherent systems. *Naval Research Logistics* 2019; 66(5): 430-438. <https://doi.org/10.1002/nav.21849>. (Co-author: Francisco J. Samaniego).
96. Discussion of ‘Nonparametric generalized fiducial inference for survival functions under censoring’. *Biometrika* 2019; 106(3): 523-526. (Co-author: Gunnar Taraldsen).
97. On the comparison of performance-per-cost for coherent and mixed systems. *Probability in the Engineering and Informational Sciences* 2020; 1-18. <https://doi.org/10.1017/S0269964820000273> (Co-authors: Francisco J. Samaniego and Nana Wang).
98. Discussion of "Virtual age, is it real?" *Applied Stochastic Models in Business and Industry* 2020. <https://onlinelibrary.wiley.com/doi/10.1002/asmb.2588>
99. Competing Risks Modeling by Extended Phase-Type Semi-Markov Distributions. *Methodol Comput Appl Probab* (2021). <https://doi.org/10.1007/s11009-020-09839-1> (Co-authors: Brenda Garcia-Maya and Nikolaos Limnios).
100. Conditional Monte Carlo revisited. *Scandinavian Journal of Statistics*. First published: 30 June 2021; <https://doi.org/10.1111/sjos.12549> (Co-authors: Rasmus Erlemann and Gunnar Taraldsen)
101. Improper priors and improper posteriors. *Scandinavian Journal of Statistics*. First published: 14 July 2021 <https://doi.org/10.1111/sjos.12550> (Co-authors: Gunnar Taraldsen and Jarle Tufto).
102. Assessing short-term risk of ischemic stroke in relation to all prescribed medications. *Scientific reports* 11, 2021. (Co-authors Imre Janszky et al.)

103. Conditional Goodness-of-Fit Tests for Discrete Distributions. *Journal of Statistical Theory and Practice* 2022, 16 (1), 8 (Co-author: Rasmus Erlemann)
104. Phase-type models for competing risks, with emphasis on identifiability issues. *Lifetime Data Analysis* 2023, 29 (2), 318-341
105. Phase-type models involving restarting and instantaneous transitions, with applications to degradation and maintenance. *Applied Stochastic Models in Business and Industry* 2023, 40(3), 668 - 683. <https://doi.org/10.1002/asmb.2771>
106. Fiducial Inference and Decision Theory. In: *Handbook of Bayesian, Fiducial, and Frequentist Inference* (Eds.: Berger, James; Meng, Xiao-Li; Reid, Nancy; Xie, Min-Ge). CRC Press. DOI: [10.1201/9780429341731](https://doi.org/10.1201/9780429341731). (Co-author: Gunnar Taraldsen).
107. New tests for trend in time censored recurrent event data. *Applied Stochastic Models in Business and Industry* 2024, DOI: [10.1002/asmb.2848](https://doi.org/10.1002/asmb.2848) (Co-author: Jan Terje Kvaløy).