

Publication list 2012-2022, Statistics and Data Science group, Department of Mathematics, University of Bergen.

The list includes all articles and monographs published by permanent staff, emiriti, temporary staff (e.g. postdocs and phd-students) and adjunct professors (with publications with affiliation to UiB listed and during the given period).

1. Fournier, D.A., **H. J. Skaug**, et al. (2012). AD Model Builder: using automatic differentiation for statistical inference of highly parameterized complex nonlinear models. *Optimization Methods & Software* 27(2): 233-249.
2. Okamura, H., Minamikawa, S., **Skaug, H.J.**, and Kishiro, T. (2012). Abundance Estimation of Long-Diving Animals Using Line Transect Methods. *Biometrics* 68(2): 504-513.
3. Stordal, A.S., Karlsen, H.A., Nævdal, G., Oliver, D.S., & **Skaug, H.J.** (2012). Filtering with state space localized Kalman gain. *Physica D-Nonlinear Phenomena* 241(13): 1123-1135.
4. Stordal, A. S., Valestrand, R., Karlsen, H.A., Nævdal, G., **Skaug, H.J.** (2012). Comparing the adaptive Gaussian mixture filter with the ensemble Kalman filter on synthetic reservoir models. *Computational Geosciences* 16(2): 467-482.
5. Kleppe, T.S., Yu, J., **Skaug, H.J.** (2012) Fitting general stochastic volatility models using Laplace accelerated sequential importance sampling. *Computational Stat. and Data Analysis* **56** (11), 3105–3119.
6. Glover K.A., Haag T., Oien N., Walloe L., Lindblom L., Seliussen B.B., **Skaug H.J.** (2012) The Norwegian minke whale DNA register: a database monitoring commercial harvest and trade of whale products. *Fish and Fisheries* 13, 313-332.
7. Haaland, O.A., **Skaug, H.J.** (2013) Estimating genotyping error rates from parent-offspring dyads. *Statistics and Probability letters*. 83, 3, 812-819.
8. **Skaug, H.J.**, Yu, J. (2014) A flexible and automated likelihood based framework for inference in stochastic volatility models. *Comp. Stat. Data Analysis*, 76, 642-654.
9. Glover, K.A, Kanda, N., Haug, T., Pastene, L.A., Øien, N., Seliussen, B.B., Sørvik, A.G.E., **Skaug, H.J.** (2013). Hybrids between common and Antarctic minke whales are fertile and can back-cross. *BMC Genetics* 14-25.
10. Langrock, R., Borchers, D.L., **Skaug, H.J.** (2013) Markov-Modulated Nonhomogeneous Poisson Processes for Modeling Detections in Surveys of Marine Mammal Abundance. *Journal of the American Statistical Association*. 108 (503) 840-851.
11. Anderson, E.C., **Skaug, H.J.**, Barshis, D.J. (2014) Next-generation sequencing for molecular ecology: a caveat regarding pooled samples. *Molecular Ecology* 23 (3) 502-512.
12. Kleppe, T.S., Yu, J., **Skaug, H.J.** (2014). Maximum likelihood estimation of partially observed diffusion models. *Journal of Econometrics* 180 (1) 73-80.
13. Quintela, M., **Skaug, H.J.**, Oien, N., Haug T., Seliussen, B.B., Solvang, H.K., Pampoulie, C., Kanda, N., Pastene, L.A., Glover, K.A. (2014). Investigating Population Genetic Structure in a Highly Mobile Marine Organism: The Minke Whale *Balaenoptera acutorostrata acutorostrata* in the North East Atlantic. *Plos One* 9(9): p. 15.
14. Vincenzi, S., Mangel, M., Crivelli, A.J., Munch, S., **Skaug, H.J.** (2014). Determining Individual Variation in Growth and Its Implication for Life-History and Population Processes Using the Empirical Bayes Method. *PLOS Computational Biology* 10(9).
15. Zhang, Y.H., Oliver, D.S., Chen, Y., **Skaug, H.J.** Data (2015). Assimilation by Use of the Iterative Ensemble Smoother for 2D Facies Models *SPE Journal* 20 p. 169-185.
16. Bravington, M.V., **Skaug, H.J.**, Anderson, E.C. (2016). Close-kin Mark-Recapture. *Statistical Science* 31, p. 259-274.
17. Kleppe, T.S., **Skaug, H.J.** (2016) Bandwidth selection in pre-smoothed particle filters. *Statistics and Computing* 26, p. 1009-1024.

18. Kristensen, K., Nielsen, A., Berg C.W., **Skaug, H.**, Bell, B. (2016) TMB: Automatic Differentiation and Laplace approximation. *Journal of Statistical Software* **70** p. 1-21.
19. Vincenzi, S., Mangel, M., Crivelli, A.J., Munch, S., **Skaug, H.J.** (2016). Trade-offs between accuracy and interpretability in von Bertalanffy random-effects models of growth. *Ecological Applications* **26** p. 1535-1552.
20. Brooks M.E., Kristensen K., Van Benthem K.J., Magnusson A., Berg C.W., Nielsen A., **Skaug H.J.**, Machler M., Bolker B.M. (2017). glmmTMB Balances Speed and Flexibility Among Packages for Zero-inflated Generalized Linear Mixed Modeling. *R Journal* **9**(2): p. 378-400.
21. Malde, K., Seliussen, B.B., Quintela, M., Dahle, G., Besnier, F., **Skaug, H.J.**, Øien, N., Solvang, H.K., Haug, T., Skern-Mauritzen, R. and Kanda, N. (2017). Whole genome resequencing reveals diagnostic markers for investigating global migration and hybridization between minke whale species. *BMC Genomics* **18**.
22. **Skaug, H.J.** (2017). The parent-offspring probability when sampling age-structured populations. *Theoretical Population Biology* **118**: p. 20-26.
23. Mannseth, J., Kleppe, T.S., **Skaug, H.J.** (2017). On the application of improved symplectic integrators in Hamiltonian Monte Carlo. *Communications in Statistics - Simulation and Computation* **47**(2): 500-509.
24. Nikoliodakis, N., **Skaug, H.J.**, Olafsdottir, A.H., Jansen, T., Jacobsen, J.A., & Enberg, K. (2018). Drivers of the summer-distribution of Northeast Atlantic mackerel (*Scomber scombrus*) in the Nordic Seas from 2011 to 2017; a Bayesian hierarchical modelling approach. *Ices Journal of Marine Science*. **76**(2), 530-548.
25. Ruzzante, D.E., McCracken, G.R., Førland, B., MacMillan, J., Notte, D., Buhariwalla, C., Mills Flemming, J., **Skaug, H.** (2019). Validation of close-kin mark–recapture (CKMR) methods for estimating population abundance. *Methods in Ecology and Evolution*, **10**(9), 1445-1453.
26. Fallahi, S., **Skaug, H.J.**, & Alendal, G. (2020). A comparison of Monte Carlo sampling methods for metabolic network models. *Plos one*, **15**(7), e0235393.
27. Frøysa, H.G., **Skaug, H.J.**, & Alendal, G. (2020). Experimental design for parameter estimation in steady-state linear models of metabolic networks. *Mathematical Biosciences*, **319**, 108291.
28. Wacker, S., **Skaug, H.J.**, Forseth, T., Solem, Ø., Ulvan, E.M., Fiske, P., & Karlsson, S. (2021). Considering sampling bias in close-kin mark–recapture abundance estimates of Atlantic salmon. *Ecology and Evolution*, **11**(9), 3917-3932.
29. Mannseth, J., Berentsen, G.D., **Skaug, H.J.**, Lie, R.T., & Moster, D. (2021). Variation in use of Caesarean section in Norway: An application of spatio-temporal Gaussian random fields. *Scandinavian Journal of Public Health*, **49**(8), 891-898.
30. Berentsen, G.D., Azzolini, F., **Skaug, H.J.**, Lie, R.T., & Gjessing, H.K. (2021). Heritability curves: A local measure of heritability in family models. *Statistics in Medicine*, **40**(6), 1357-1382.
31. Helgøy, I.M., **Skaug, H.J.** (2021). The Sibling Distribution for Multivariate Life Time Data. *Sankhya B*, **84** (1), 340-363.
32. Solvang, H.K., **Skaug, H.J.**, Øien, N. (2021). Measurement error model for the Norwegian common minke whale (*Balaenoptera acutorostrata acutorostrata*) surveys 2008-2013. *J. Cetacean Res. Manage.*, **22**(1), 01-16.
33. Wacker, Sebastian, **Skaug, H.J.**, Forseth, T., Solem, Ø., Ulvan, E.M., Fiske, P. and Karlsson, S. (2021). Considering sampling bias in close-kin mark–recapture abundance estimates of Atlantic salmon. *Ecology and Evolution* **11**(9), 3917-3932.
34. Nilsen, G.K., Munthe-Kaas, A.Z., **Skaug, H.J.**, Brun, M. (2022). Epistemic uncertainty quantification in deep learning classification by the Delta method. *Neural Networks*, **145**, 164-176.
35. Delaval, A., Bendall, V., Hetherington, S.J., **Skaug, H.J.**, Frost, M., Jones, C.S., Noble, L.R. (2022). Evaluating the suitability of close-kin mark-recapture as a demographic modelling tool for a critically endangered elasmobranch population. *Evolutionary Applications*, **16**(2), 461-473.
36. Azzolini, F., Berentsen, G.D., **Skaug, H.J.**, Hjelmberg, J.V., Kaprio, J.A. (2022). The heritability of BMI varies across the range of BMI—a heritability curve analysis in a twin cohort. *International Journal of Obesity*, **46**(10), 1786-1791.

37. Gallego-Martinez A., ..., **Bulla J.**, ..., Lopez-Escamez J. (2022), 'Using coding and non-coding rare variants to target candidate genes in patients with severe tinnitus', *npj Genomic Medicine* 7, 70, <https://doi.org/10.1038/s41525-022-00341-w>
38. Simões J., **Bulla J.**, ..., Schlee W. (2022), 'Daily Contributors of Tinnitus Loudness and Distress: An Ecological Momentary Assessment Study', *Frontiers in Neuroscience* 16:883665, <https://doi.org/10.3389/fnins.2022.883665>
39. Bacri T., Berentsen G.D., **Bulla J.**, Hølleland S. (2022), 'A gentle tutorial on accelerated parameter and confidence interval estimation for hidden Markov models using Template Model Builder', *Biometrical Journal* 64 (7), 1260-1288, <https://doi.org/10.1002/bimj.202100256>
40. Berentsen G.D., **Bulla J.**, Maruotti A., Støve B. (2022), 'Modeling clusters of corporate defaults: regime-switching models significantly reduce the contagion source', *Journal of the Royal Statistical Society: Series C* 71 (3), 698-722, <https://doi.org/10.1111/rssc.12551>
41. Edvall N.K., ..., **Bulla J.**, ..., Cederroth C. (2022), 'Alterations in auditory brainstem response distinguish occasional and constant tinnitus', *The Journal of Clinical Investigation* 132 (5): e155094, <https://doi.org/10.1172/JCI1155094>
42. Haji-Maghsoudi S.,..., **Bulla J.**,..., Mahjub H. (2021) 'A Bayesian approach to Generalized Linear Mixed Hidden Semi-Markov Models in longitudinal data setting', *Statistics in Medicine* 40 (10), 2373-2388, <https://doi.org/10.1002/sim.8908>
43. Trpchevska N., **Bulla J.**,..., Cederroth C. (2020) 'Sexual dimorphism in the familial aggregation of tinnitus', *Journal of Clinical Medicine* 9 (12), 3812, <https://doi.org/10.3390/jcm9123812>
44. Schlee W.,... **Bulla J.**, ..., Langguth B. (2020) 'The Effect of Environmental Stressors on Tinnitus: A Prospective Longitudinal Study on the Impact of the COVID-19 Pandemic', *Journal of Clinical Medicine* 9 (9), 2756, <https://doi.org/10.3390/jcm9092756>
45. Pasquier F.,..., **Bulla J.**,..., Quarck G. (2020), 'Effects of vestibular stimulation induced by a rotatory chair on the human rest/activity rhythm', *Chronobiology International* 37 (8), 1244-1251, <https://doi.org/10.1080/07420528.2020.1797762>
46. Bessot N.,..., **Bulla J.**, Gauthier A. (2020), 'Diurnal gait fluctuations in single - and dual- task conditions', *Chronobiology International* 37 (6), 836-844, <https://doi.org/10.1080/07420528.2020.1773493>
47. Cederroth C.,..., **Bulla J.**,..., Gallus S. (2020), 'Association between Hyperacusis and Tinnitus', *Journal of Clinical Medicine* 9, 2412, 1-13, <https://dx.doi.org/10.3390/jcm9082412>
48. Lugo A.,..., **Bulla J.**,..., Cederroth C. (2020), 'Relationship between headaches and tinnitus in a Swedish study', *Scientific Reports* 10, 8494, <https://doi.org/10.1038/s41598-020-65395-1>
49. Mark T., **Bulla J.**,..., Schwarzwäller W. (2019), 'Catalogue as a Tool for Reinforcing Habits: Empirical Evidence from a Multichannel Retailer International Journal of Research in Marketing', *Journal of Interactive Marketing* 36 (4), 528-541, <https://doi.org/10.1016/j.ijresmar.2019.01.009>
50. Rebecca E., **Bulla J.**,..., Rønneseth A. (2019), 'Protection and antibody reactivity in lump sucker (*Cyclopterus lumpus* L.) following vaccination against *Pasteurella* sp.' *Fish and Shellfish Immunology* 95, 650-658, <https://doi.org/10.1016/j.fsi.2019.11.016>
51. Le Gall A., ... **Bulla J.**, ..., Besnard S. (2019), 'The critical role of vestibular graviception during cognitive-motor development', *Behavioural Brain Research* 372, 112040, <https://doi.org/10.1016/j.bbr.2019.112040>
52. Edvall N.K.,..., **Bulla J.**, ..., Cederroth C.R. (2019), 'Impact of temporomandibular joint complaints on tinnitus-related distress', *Frontiers in Neuroscience* 13 (7), 879, <https://doi.org/10.3389/fnins.2019.00879>
53. **Bulla J.**, Langrock R., Maruotti A. (2019), 'Guest editor's introduction to the special issue on "HiddenMarkov Models: Theory and Applications"', *METRON* 77 (2), 19-42 <https://doi.org/10.1007/s40300-019-00157-2>
54. Simões J., ..., **Bulla J.**, ..., Schlee W. (2019), 'Towards personalized Tinnitus Treatment: An Exploratory Study Based on Internet Crowdsensing', *Frontiers in Public Health* 6 (7), <https://doi.org/10.3389/fpubh.2019.00157>

55. Mark T., **Bulla J.**, **Maruotti A.** (2019), 'Assessing the influence of marketing activities on customer behaviors: a dynamic clustering approach', *METRON* 77 (1), 19-42, <https://doi.org/10.1007/s40300-019-00150-9>
56. Nandwani T.,..., **Bulla J.**,..., Baguley D. M. (2019), 'The genetic vulnerability to cisplatin ototoxicity: a systematic review', *Scientific Reports* 9 (1), 3455, <https://doi.org/10.1038/s41598-019-40138-z>
57. Martin T., ..., **Bulla J.**, ..., Bessot N. (2018), 'Effect of sleep deprivation on diurnal variation of vertical perception and postural control', *Journal of Applied Physiology* 125, 167-174, <https://doi.org/10.1152/jappphysiol.00595.2017>
58. Chapon P.A., **Bulla J.**,..., Bessot N. (2018), 'Performances assessment of Anipill® device prototype designed for continuous temperature monitoring', *Biomedical Physics & Engineering Express* 5 (4), 055020, <https://doi.org/10.1088/2057-1976/aad440>
59. Bulla I., ..., **Bulla J.**, ..., C. Chaparro C. (2018), 'Notos – a Galaxy tool to analyze CpG observed expected ratios for inferring DNA methylation types', *BMC Bioinformatics* 19 (1), 105, <https://doi.org/10.1186/s12859-018-2115-4>
60. Sansom J., **Bulla J.**, Carey-Smith T., Thomson P. (2017), 'The impact of conventional space-time aggregation on the dynamics of continuous-time rainfall', *Water Resources Research* 53 (9), 7558-7575, <https://doi.org/10.1002/2017WR021074>
61. Riphaut A., ..., **Bulla J.**, ..., Unzicker C. (2017), 'Women awaken faster than men after electroencephalogram-monitored propofol sedation for colonoscopy: A prospective observational study', *European Journal of Anaesthesiology* 34 (10), 681-687, doi: <https://doi.org/10.1097/EJA.0000000000000665>
62. Maruotti A., **Bulla J.**,..., Martella F. (2017), 'A dynamic extension of mixture of factor analysers for clustering multivariate pollutant concentrations', *Annals of Applied Statistics* 11 (3), 1617-1646, <https://doi.org/10.1214/17-AOAS1049>
63. Dumont V., **Bulla J.**,..., Roche-Labarbe N. (2017), 'The manual orienting response habituation to repeated tactile stimuli in preterm neonates Discrimination of stimulus locations and interstimulus intervals', *Developmental Psychobiology* 59 (5), 590–602, <https://doi.org/10.1002/dev.21526>
64. Hébert M., **Bulla J.**, Vivien D., Agin V. (2017), 'Are distal and proximal visual cues equally important during spatial learning in mice? A pilot study of overshadowing in the spatial domain.', *Frontiers in Behavioral Neuroscience* 11, 109, <https://doi.org/10.3389/fnbeh.2017.00109>
65. Maas I.L., ..., **Bulla J.**,..., Cederroth C. (2017), 'Genetic susceptibility to bilateral tinnitus in a Swedish twin cohort', *Genetics in Medicine*, <https://doi.org/10.1038/gim.2017.4>
66. **Bulla J.**, Chesneau C., Kachour M. (2017), 'A bivariate first-order signed integer-valued autoregressive process', *Communications in Statistics - Theory and Methods*, 46 (13), 6590-6604, <https://doi.org/10.1080/03610926.2015.1132322>
67. Wrzosek M.,..., **Bulla J.** (2016), 'The Polish adaptation and validation of the Tinnitus Handicap Inventory and Tinnitus Functional Index', *Frontiers in Psychology*, <https://doi.org/10.3389/fpsyg.2016.01871>. Also published in the eBook of the Frontiers Research Topic *Towards an Understanding of Tinnitus Heterogeneity*
68. Mark T., **Bulla J.**, Southam C., Meza S. (2016), 'Cross-category Indulgence: Why some Premium Brands Grow during Recession?', *Journal of Brand Management* 23 (5), 114-129, <https://doi.org/10.1057/s41262-016-0004-6>
69. Kreuzer P.,..., **Bulla J.**,..., Schecklmann M. (2017), 'A proof-of-concept study on the combination of repetitive transcranial magnetic stimulation and relaxation techniques in chronic tinnitus', *Journal of Neural Transmission* 128 (3), e34, <https://doi.org/10.1016/j.clinph.2016.10.183>
70. Tristan M.,..., **Bulla J.**,..., Gaëlle Q. (2016), 'Exploration of circadian rhythms in patients with bilateral vestibular loss', *PLOS ONE* 11 (6), <https://doi.org/10.1371/journal.pone.0155067>

71. Dupont Rocher S., Bessot N., Sesboüé B., **Bulla J.**, Davenne D. (2015), 'Circadian characteristics of older adults and aerobic capacity', *The Journals of Gerontology- Series A Biological Sciences and Medical Sciences* 71(6), 817-22, <https://doi.org/10.1093/gerona/glv195>
72. Perrier J.,..., **Bulla J.**, Vermeeren A. (2015), 'Electroencephalography during on-the-road driving in older untreated insomnia patients and normal sleepers', *Biological Psychology* 129, 20-28, <https://doi.org/10.1016/j.biopsycho.2015.04.002>
73. **Bulla J.**, Chesneau C., Kachour M. (2015), 'On the bivariate Skellam distribution', *Communications in Statistics - Theory and Methods* 44 (21), 4552-4567, <https://doi.org/10.1080/03610926.2013.837925>
74. Martin T.,..., **Bulla J.**,..., Besnard S. (2015), 'Vestibular loss disrupts circadian rhythm in rats', *Journal of Applied Physiology* 118 (3), 310-318, <https://doi.org/10.1152/jappphysiol.00811.2014>
75. **Bulla J.**, Lagona F., Maruotti A., Picone M. (2015), 'Environmental conditions in semi-enclosed basins: A dynamic latent class approach for mixed-type multivariate variables', *Journal de la Société Française de Statistique* 156 (1), 114-137, <http://journal-sfds.fr/article/view/420>
76. Perrier J.,..., **Bulla J.**,..., Bocca M.L. (2015), 'Specific EEG Sleep Pattern in the Prefrontal Cortex in Primary Insomnia', *PLOS ONE* 10 (1), 1-14, <https://doi.org/10.1371/journal.pone.0116864>
77. Bessot N.,..., **Bulla J.**, Moussay S. (2015), 'Diurnal variation in gait characteristics and transition speed', *Chronobiology* 32 (1), 136-142, <https://doi.org/10.3109/07420528.2014.959128>
78. Perrier J.,..., **Bulla J.**, Bocca M.L. (2014), 'Impaired driving performance associated with effect of time duration in patients with primary insomnia', *Sleep* 37 (9), 1565-1573, <https://doi.org/10.5665/sleep.4012>
79. Chapon P.A., **Bulla J.**, Gauthier A., Moussay S. (2014), 'On the importance of telemetric temperature sensor location during intraperitoneal implantation in rats', *Laboratory animals* 48 (2), 114-123, <https://doi.org/10.1177/0023677214522035>
80. **Tjøstheim, D.**, Otneim, H. & **Støve, B.** (2022), *Statistical Modelling using Local Gaussian Approximations*, Academic Press (ca 450 pages).
81. **Tjøstheim, D.**, Otneim, H. & **Støve, B.** (2022), Statistical dependence: Beyond Pearson's rho. *Statistical Science*, 37(1), 90-109.
82. Sleire, A., **Støve, B.**, Otneim H., Berentsen, G, **Tjøstheim, D.** & Haugen, S.H. (2022). Portfolio allocation under asymmetric dependence structures using Local Gaussian Approximation. *Finance Research Letters*, 46.
83. Aasne K Aarsand, Ann Helen Kristoffersen, Sverre Sandberg, **Bård Støve**, Abdurrahman Coşkun, Pilar Fernandez-Calle, Jorge Díaz-Garzón, Elena Guerra, Ferruccio Ceriotti, Niels Jonker, Thomas Røraas, Anna Carobene (2021). The European Biological Variation Study (EuBIVAS): Biological Variation Data for Coagulation Markers Estimated by a Bayesian Model. *Clinical Chemistry*, 67, 1259-1270.
84. Fokianos, K., **Støve, B.**, Tjøstheim, D. & Doukhan, P. (2020). Multivariate count autoregression. *Bernoulli*, (26) p. 471-499.
85. Ljungqvist, F.C., Thejll, P., Björklund, J., Gunnarson, B.E., Piermattei, A., Rydval, M., Seftigen, K., **Støve, B.** & Büntgen, U. (2020). Assessing non-linearity in European temperature-sensitive tree-ring data. *Dendrochronologia*.
86. Røraas, T., Sandberg, S., Aarsand, A.K. & **Støve, B.** (2019). A Bayesian approach to biological variation analysis, *Clinical Chemistry*, 65(8), p. 995-1005.
87. Røraas, T., **Støve, B.**, Petersen, P.H. & Sandberg, S. (2017). Biological variation: Evaluation of methods for constructing confidence intervals for estimates of within-person biological variation for different distributions of the within-person effect, *Clinica Chimica Acta*, 468, 166-173.
88. Røraas T., **Støve B.**, Sandberg S. & Petersen P.H. (2016), 'Biological Variation: The Effect of Different Distributions on Estimated Within-Person Variation and Reference Change Values', *Clinical Chemistry*, 62(5), 725-736.
89. Berentsen G.D., **Støve B.**, Nordbø T. & **Tjøstheim D.** (2014), 'Visualizing and Recognizing Copulas: an approach using Local Gaussian Correlation', *Insurance: Mathematics & Economics*, 57, 90-103

90. **Støve B., Tjøstheim D.** & Hufthammer K.O. (2014), ‘Using Local Gaussian Correlation in a Non-Linear re-examination of Financial Contagion’, *Journal of Empirical Finance*, 25, 62-82
91. **Støve B. & Tjøstheim D.**, (2014). Asymmetric dependence patterns in financial returns: An empirical investigation using local Gaussian Correlation, p. 307-329. *Nonlinear Time Series Econometrics* (N.Halderup, M. Meitz and P. Saikkonen, eds.), Oxford University Press.
92. **Støve B.**, Thejll P. & Ljungqvist F.C. (2012), ‘A test for Non-linearity in Temperature Proxy Records’, *Journal of Climate*, 25, 7173-7186
93. **Støve B. & Tjøstheim D.** (2012), ‘A Convolution Estimator for the density of nonlinear regression observations’, *Scandinavian Journal of Statistics* 39, 282-304
94. **Yushu Li** and Hyunjoo Kim Karlsson (2022). Investigating the Asymmetric Behavior of Oil Price Volatility Using Support Vector Regression, (Online 06 May 2022), *Computational Economics*.
95. **Yushu Li** and Fredrik N.G. Andersson (2021). A simple wavelet-based test for serial correlation in panel data models, *Empirical Economics*, 60, pp. 2351–2363
96. Fredrik N.G. Andersson and **Yushu Li** (2020). Are Central Bankers Inflation Nutters? An MCMC Estimator of the Long-Memory Parameter in a State Space Model, *Computational economics*, 55, pages 529–549.
97. **Yushu Li** and Jonas Andersson (2019). A Likelihood Ratio and Markov Chain Based Method to Evaluate Density Forecasting, (Online 17 May 2019), *Journal of forecasting*
98. Hyunjoo Kim Karlsson, **Yushu Li** and Ghazi Shukur (2018). The Causal Nexus between Oil Prices, Interest Rates, and Unemployment in Norway Using Wavelet Methods, *Sustainability* 2018, 10(8), 2792
99. Bjørn Gunnar Hansen and **Yushu Li** (2017). An Analysis of Past World Market Prices of Feed and Milk and Predictions for the Future, *Agribusiness*, 33 (2), pp. 175-193
100. Simon Reese and **Yushu Li** (2015). Testing for structural breaks in the presence of data perturbations--- Impacts and wavelet based improvements, *Journal of Statistical Computation and Simulation*, 2015, 85(17), pp. 3468-3479
101. **Yushu Li** (2015). Estimate long memory causality relationship by wavelet method, *Computational Economics*, 2015, 45(4), pp. 531-544
102. **Yushu Li** (2014). Estimating and Forecasting APARCH-Skew-t Model by Wavelet Support Vector Machines, *Journal of Forecasting*, 2014, 33(4), pp. 259-269
103. **Yushu Li** and Simon Reese (2014). Wavelet improvement in turning point detection using a HMM model - from the aspects of cyclical identification and outlier correction, *Computational Statistics*, 2014, 29(6), pp.1481-1496
104. **Yushu Li** (2013). Wavelet Based Outlier Correction for Power Controlled Turning Point Detection in Surveillance Systems”, *Economic modeling*, 30, pp. 317-321
105. **Yushu Li** and Shukur Ghazi (2013). Testing for unit roots in panel data using wavelet ratio method, *Computational Economics*, 41, pp. 59–69
106. **Bethuelsen, Stein Andreas**; Hirsch, Christian; Mönch, Christian. (2021). Quenched invariance principle for random walks on dynamically averaging random conductances. *Electronic Communications in Probability*. 1-13.
107. **Bethuelsen, Stein Andreas**; Valesin, Daniel; Baptista da Silva, Gabriel. (2021). Graph constructions for the contact process with a prescribed critical rate . *Journal of theoretical probability*.
108. **Bethuelsen, Stein Andreas**. (2020). On projections of the supercritical contact process: uniform mixing and cutoff phenomenon. *Book Series: Lecture Notes Series, Institute for Mathematical Sciences, National University of Singapore*. 315-340.
109. **Bethuelsen, Stein Andreas** , Diana Conache. One-sided continuity properties for the Schonmann projection. *Journal of Statistical Physics*, 172(4), 1147-1163, 2018.
110. **Bethuelsen, Stein Andreas** , The contact process as seen from a random walk. *ALEA, Lat. Am. J. Probab. Math. Stat.*, 15, 571-585, 2018
111. **Bethuelsen, Stein Andreas**, Stochastic domination in space-time for the contact process (with Rob van den Berg). *Random Structures & Algorithms*, 53(2), 221-237, 2018.

112. **Bethuelsen, Stein Andreas**, Law of large numbers for random walks on attractive spin-flip dynamics (with Markus Heydenreich). *Stochastic Processes and Applications*, 127(7), 2346–2372, 2017.
113. **Bethuelsen, Stein Andreas**, Absolute continuity and weak uniform mixing for random walk in dynamic random environment (with Florian Völlering). *Electron. J. Probab.*, 21(71), 1–32, 2016.
114. Bussoli, Candida; Giannotti, Claudio; Marino, Francesca; **Maruotti, Antonello** (2022) Trade credit in Europe: Financial constraint and substitution effect in crisis times. *European Financial Management*
115. Cremaschini, Alessandro; Punzo, Antonio; Martellucci, Eliano; **Maruotti, Antonello** (2022). On stylized facts of cryptocurrencies returns and their relationship with other assets, with a focus on the impact of COVID-19. *Applied Economics*
116. Divino, Fabio; Alaimo Di Loro, Pierfrancesco; Farcomeni, Alessio; Jona-Lasinio, Giovanna; Lovison, Gianfranco; Ciccozzi, Massimo; Mingione, Marco; **Maruotti, Antonello** (2022). Decreased severity of the Omicron variant of concern: further evidence from Italy. *International Journal of Infectious Diseases*
117. Magrì, Damiano; Piepoli, Massimo; Gallo, Giovanna; Corrà, Ugo; Metra, Marco; Paolillo, Stefania; Filardi, Pasquale Perrone; **Maruotti, Antonello**; Salvioni, Elisabetta; Mapelli, Massimo; Vignati, Carlo; Senni, Michele; Limongelli, Giuseppe; Lagioia, Rocco; Scrutinio, Domenico; Emdin, Michele; Passino, Claudio; Parati, Gianfranco; Sinagra, Gianfranco; Correale, Michele; Badagliacca, Roberto; Sciomer, Susanna; Di Lenarda, Andrea; Agostoni, Piergiuseppe. (2022). Old and new equations for maximal heart rate prediction in patients with heart failure and reduced ejection fraction on beta-blockers treatment: results from the MECKI score data set. *European Journal of Preventive Cardiology (EJPC)*; Volum 29.(12) pp.1680-1688
118. **Maruotti, Antonello**; Jona-Lasinio, Giovanna; Divino, Fabio; Lovison, Gianfranco; Ciccozzi, Massimo; Farcomeni, Alessio. Estimating COVID-19-induced excess mortality in Lombardy, Italy. *Aging Clinical and Experimental Research* ;Volum 34.(2) s.475-479
119. Merlo, Luca; **Maruotti, Antonello**; Petrella, Lea; Punzo, Antonio. (2022). Quantile hidden semi-Markov models for multivariate time series. *Statistics and computing* ;Volum 32.(4)
120. Nisii, F.; Mazur, M.; De Nuccio, Nuccio; Martucci, C.; Spuntarelli, M.; Labozzetta, S.; Fratini, A.; Sozzi, S.; **Maruotti, Antonello**; Vozza, I.; Luzzi, V.; Bossu, M.; Ottolenghi, L.; Polimeni, A.. Prevalence of molar incisor hypomineralization among school children in Rome, Italy. *Scientific Reports* ;Volum 12.(1)
121. Tomarchio, Salvatore D.; Punzo, Antonio; **Maruotti, Antonello**. (2022). Parsimonious hidden Markov models for matrix-variate longitudinal data. *Statistics and computing*;Volum 32.(3)
122. Alaimo Di Loro, Pierfrancesco; Divino, Fabio; Farcomeni, Alessio; Jona Lasinio, Giovanna; Lovison, Gianfranco; **Maruotti, Antonello**;Mingione, Marco. (2021). Nowcasting COVID-19 incidence indicators during the Italian first outbreak. *Statistics in Medicine* ;Volum 40.(16) s.3843-3864
123. Centoni, Marco; **Maruotti, Antonello** (2021). Students' evaluation of academic courses: An exploratory analysis to an Italian case study. *Studies in Educational Evaluation* ;Volum 70.
124. Di Mari, Roberto; **Maruotti, Antonello** (2021). A two-step estimator for generalized linear models for longitudinal data with time-varying measurement error. *Advances in Data Analysis and Classification*
125. Divino, Fabio; **Maruotti, Antonello**; Farcomeni, Alessio; Jona Lasinio, Giovanna; Lovison, Gianfranco; Ciccozzi, Massimo. (2021). On the severity of COVID-19 infections in 2021 in Italy. *Journal of Medical Virology*
126. Gallo, Giovanna; Mastromarino, Vittoria; Limongelli, Giuseppe; Calcagni, Giulio; **Maruotti, Antonello**; Ragni, Luca; Valente, Fabio; Musumeci, Beatrice; Adorisio, Rachele; Rubino, Marta; Autore, Camillo; Magrì, Damiano. Insights from cardiopulmonary exercise testing in pediatric patients with hypertrophic cardiomyopathy. *Biomolecules* ;Volum 11.(3) s.1-15
127. **Maruotti, Antonello**; Fabbri, Marco; Rizzolli, Matteo (2021). Multilevel Hidden Markov Models for Behavioral Data: A Hawk-and-Dove Experiment. *Multivariate Behavioral Research*
128. **Maruotti, Antonello**; Petrella, Lea; Sposito, Luca.(2021). Hidden semi-Markov-switching quantile regression for time series. *Computational Statistics & Data Analysis* ;Volum 159. s.1-19
129. **Maruotti, Antonello**; Punzo, Antonio. Initialization of Hidden Markov and Semi-Markov Models: A Critical Evaluation of Several Strategies. (2021). *International Statistical Review*;Volum 89.(3) s.447-480

130. Merlo, Luca; **Maruotti, Antonello**; Petrella, Lea. Two-part quantile regression models for semi-continuous longitudinal data: A finite mixture approach. *Statistical Modelling* (2021) s.1-24
131. Mingione, Marco; Alaimo Di Loro, Pierfrancesco; Farcomeni, Alessio; Divino, Fabio; Lovison, Gianfranco; **Maruotti, Antonello**; Lasinio, Giovanna Jona. Spatio-temporal modelling of COVID-19 incident cases using Richards' curve: An application to the Italian regions. *Spatial Statistics* (2021)
132. Ötting, Marius; Langrock, Roland; **Maruotti, Antonello**. A copula-based multivariate hidden Markov model for modelling momentum in football. *AStA Advances in Statistical Analysis* (2021)
133. Recio-Saucedo, Alejandra; Smith, Gary B.; Redfern, Oliver; **Maruotti, Antonello**; Griffiths, Peter. Observational study of the relationship between nurse staffing levels and compliance with mandatory nutritional assessments in hospital.. *Journal of human nutrition and dietetics* (2021).
134. Böhning, Dankmar; Rocchetti, Irene; **Maruotti, Antonello**; Holling, Heinz.. Estimating the undetected infections in the Covid-19 outbreak by harnessing capture-recapture methods.. *International Journal of Infectious Diseases* (2020) ;Volum 97. s. 197-201
135. Dall'Ora, Chiara; **Maruotti, Antonello**; Griffiths, Peter. Temporary staffing and patient death in acute care hospitals: A retrospective longitudinal study. *Journal of Nursing Management* 2020 ;Volum 52.(2) s. 210-216
136. Fabbri, Marco; Rizzolli, Matteo; **Maruotti, Antonello**. Possession is nine-tenths of the law: possession, property, and coordination in a Hawk–Dove experiment. *Journal of Institutional Economics* 2020 ;Volum 7.(2)
137. Farcomeni, Alessio; **Maruotti, Antonello**; Divino, Fabio; Jona-Lasinio, Giovanna; Lovison, Gianfranco. An ensemble approach to short-term forecast of COVID-19 intensive care occupancy in Italian regions. *Biometrical Journal* (2020).
138. **Maruotti, Antonello**. The influence of dental occlusion on spectrophotometric tooth color determinations.. *Open Dentistry Journal* (2020) ;Volum 14. s. 247-254
139. **Maruotti, Antonello**; Belloc, Filippo; Nicita, Antonio. Comments on: The role of vitamin D in the prevention of coronavirus disease 2019 infection and mortality, by Ilie et al. (2020). *Aging Clinical and Experimental Research*;Volum 32. s. 1621-1623
140. Mazur, M.; Bietolini, S.; Bellardini, D.; Lussi, Adrian; Corridore, D.; **Maruotti, Antonello**; Ottolenghi, L.; Vozza, I.; Guerra, F.. Oral health in a cohort of individuals on a plant-based diet: A pilot study. *Clinica Terapeutica* (2020) ;Volum 171.(2) s. E142-E148
141. Mazur, Marta; Jedliński, Maciej; Ndokaj, Artnora; Corridore, Denise; **Maruotti, Antonello**; Ottolenghi, Livia; Guerra, Fabrizio. Diagnostic drama. Use of ICDAS II and fluorescence-based intraoral camera in early occlusal caries detection: A clinical study. *International Journal of Environmental Research and Public Health (IJERPH)* (2020) ;Volum 17.
142. Rocchetti, Irene; Böhning, Dankmar; Holling, Heinz; **Maruotti, Antonello**. Estimating the size of undetected cases of the COVID-19 outbreak in Europe: An upper bound estimator.. *Epidemiologic Methods* (2020).
143. Smith, Gary B.; **Maruotti, Antonello**; Redfern, Oliver. The association between nurse staffing levels and a failure to respond to patients with deranged physiology: a retrospective observational study in the UK.. *Resuscitation* (2020) ;Volum 149. s. 202-208
144. **Maruotti, Antonello**. Multivariate hidden Markov regression models: random covariates and heavy-tailed distributions. *Statistical Papers* (2019).
145. Ranalli, Monia; **Maruotti, Antonello**. Model-based clustering for noisy longitudinal circular data, with application to animal movement. *Environmetrics* (2019) ;Volum 31.
146. Anan, Orasa; Böhning, Dankmar; **Maruotti, Antonello**. On the Turing estimator in capture-recapture count data under the geometric distribution. *Metrika* (Heidelberg) (2018) ;Volum 82.(2) s. 149-172
147. Gaden, T. S., Ghetti, C., Kvestad, I., Bieleninik, Ł., **Stordal, A. S.**, Assmus, J., ... & Gold, C. (2022). Short-term music therapy for families with preterm infants: a randomized trial. *Pediatrics*, 149(2).
148. Rørtveit, Øyvind Lunde; Hysing, Liv Bolstad; **Stordal, Andreas Størksen**; Pilskog, Sara Margareta Cecilia. Reducing systematic errors due to deformation of organs at risk in radiotherapy. *Medical Physics* (Lancaster) 2021 ;Volum 48.(11) s. 6578-6587

149. **Stordal, Andreas Størksen**; Moraes, Rafael J.; Raanes, Patrick N.; Evensen, Geir. p-Kernel Stein Variational Gradient Descent for Data Assimilation and History Matching. *Mathematical Geosciences* 2021 ;Volum 53. s. 375-393
150. **Sleire, Anders Daasvand**.. etrm: Energy Trading and Risk Management in R. *The R Journal* 2022 ;Volum 14.(1) s. 320-340
151. Nordvik, Viggo; Osland, Liv; Thorsen, Inge Heldal; **Thorsen, Ingrid Sandvig**. Capitalization of neighbourhood diversity and segregation. *Environment and Planning A: Economy and Space* 2019 ;Volum 51.(8) s. 1775-1799
152. Bivand, Roger; Sha, Zhe; Osland, Liv Aileen; **Thorsen, Ingrid Sandvig**. A comparison of estimation methods for multilevel models of spatially structured data. *Spatial Statistics* 2017 ;Volum 21. s. 440-459
153. Osland, Liv Aileen; **Thorsen, Ingrid Sandvig**; Thorsen, Inge.. Accounting for local spatial heterogeneities in housing market studies. *Journal of Regional Science* 2016 ;Volum 56.(5) s. 895-920.
154. Olsen, Frank; Uleberg, Bård Erling; Jacobsen, Bjarne K.; **Heuch, Ivar**; Tande, Pål Morten; Bugge, Einar; Balteskard, Lise. (2022). **Socioeconomic and geographic differences in ablation of atrial fibrillation in Norway - a national cohort study.** *BMC Public Health*.
155. Heuch, Ingrid; **Heuch, Ivar**; Hagen, Knut; Storheim, Kjersti; Zwart, John Anker Henrik. (2022). **Does the risk of chronic low back pain depend on age at menarche or menopause? A population-based cross-sectional and cohort study: the Trøndelag Health Study.** *BMJ Open*. 1-11.
156. Olsen, Frank; Balteskard, Lise; Uleberg, Bård; Jacobsen, Bjarne K; **Heuch, Ivar**; Moen, Atle. (2021). **Impact of parents' education on variation in hospital admissions for children: a population-based cohort study.** *BMJ Open*. 1-8.
157. Olsen, Frank; Jacobsen, Bjarne K.; **Heuch, Ivar**; Tveit, Magne Kjell; Balteskard, Lise. (2021). **Equitable access to cancer patient pathways in Norway – a national registry-based study.** *BMC Health Services Research*. 1-13.
158. Øberg, Gunn Kristin; Girolami, Gay L; Campell, Suzann K.; Ustad, Tordis; **Heuch, Ivar**; Jacobsen, Bjarne K.; Kaaresen, Per Ivar; Aulie, Vibeke Smith; Jørgensen, Lone. (2020). **Effects of a parent-administered exercise program in the neonatal intensive care unit: Dose does matter-a randomized controlled trial** . *Physical Therapy*. 860-869.
159. Heuch, Ingrid; **Heuch, Ivar**; Hagen, Knut; Storheim, Kjersti; Zwart, John-Anker. (2020). **Associations between the number of children, age at childbirths and prevalence of chronic low back pain: the Nord- Trøndelag Health Study.** *BMC Public Health*. 1-11.
160. Heuch, Ingrid; **Heuch, Ivar**; Hagen, Knut; Sørgerd, Elin Pettersen; Åsvold, Bjørn Olav; Zwart, John-Anker. (2019). **Does diabetes influence the probability of experiencing chronic low back pain? A population-based cohort study: the Nord-Trøndelag Health Study.** *BMJ Open*. 1-7.
161. **Heuch, Ivar**; Abdalla, Safa; El Tayeb, Sally. (2018). **Modelling memory decay after injuries using household survey data from Khartoum State, Sudan.** *BMC Medical Research Methodology*. 1-11.
162. HEUCH, INGRID; **Heuch, Ivar**; Hagen, Knut; Sørgerd, Elin Pettersen; Åsvold, Bjørn Olav; Zwart, John-Anker. (2018). **Is chronic low back pain a risk factor for diabetes? The Nord-Trøndelag Health Study** . *BMJ Open Diabetes Research & Care*. 1-8.
163. Albrektsen, Grethe; **Heuch, Ivar**; Løchen, Maja-Lisa; Thelle, Dag Steinar; Wilsgaard, Tom; Njølstad, Inger; Bønaa, Kaare. (2017). **Risk of incident myocardial infarction by gender: Interactions with serum lipids, blood pressure and smoking. The Tromsø Study 1979-2012.** *Atherosclerosis*. 52-59.
164. Albrektsen, Grethe; **Heuch, Ivar**; Løchen, Maja-Lisa; Thelle, Dag Steinar; Wilsgaard, Tom; Njølstad, Inger; Bønaa, Kaare. Lifelong gender gap in risk of incident myocardial infarction: The Tromsø study. *JAMA Internal Medicine* 2016 ;Volum 176.(11) s. 1673-1679
165. HEUCH, INGRID; **Heuch, Ivar**; Hagen, Knut; Zwart, John-Anker. Is there a U-shaped relationship between physical activity in leisure time and risk of chronic low back pain? A follow-up in the HUNT Study. *BMC Public Health* 2016 ;Volum 16.(306) s. -

166. El Tayeb, Sally; Abdalla, Safa; **Heuch, Ivar**; Van den Bergh, Graziella. Socioeconomic and disability consequences of injuries in the Sudan: a community-based survey in Khartoum State. *Injury Prevention* 2015 ;Volum 21.(1) s. e56-e62
167. El Tayeb, Sally; Abdalla, Safa; Van den Bergh, Graziella; **Heuch, Ivar**. Use of healthcare services by injured people in Khartoum State, Sudan. *International Health* 2015 ;Volum 7.(3) s. 183-189
168. HEUCH, INGRID; **Heuch, Ivar**; Hagen, Knut; Zwart, John-Anker. A comparison of anthropometric measures for assessing the association between body size and risk of chronic low back pain: The HUNT study. *PLOS ONE* 2015 ;Volum 10:e0141268.(10) s. -
169. HEUCH, INGRID; **Heuch, Ivar**; Hagen, Knut; Zwart, John-Anker. Association between body height and chronic low back pain: a follow-up in the Nord-Trøndelag Health Study.. *BMJ Open* 2015 ;Volum 5.(6) s. 1-6
170. El Tayeb, Sally; Abdalla, Safa; Mørkve, Odd; **Heuch, Ivar**; Van den Bergh, Graziella. Injuries in Khartoum state, the Sudan: a household survey of incidence and risk factors. *International Journal of Injury Control and Safety Promotion* 2014 ;Volum 21.(2) s. 144-153
171. Gjerdevik, Miriam; **Heuch, Ivar**. Improving the error rates of the Begg and Mazumdar test for publication bias in fixed effects meta-analysis. *BMC Medical Research Methodology* 2014 ;Volum 14.
172. HEUCH, INGRID; **Heuch, Ivar**; Hagen, Knut; Zwart, John-Anker. Do abnormal serum lipid levels increase the risk of chronic low back pain? The Nord-Trøndelag Health Study. *PLOS ONE* 2014 ;Volum 9:e108227.(9)
173. Heuch, Ingrid; **Heuch, Ivar**; Hagen, Knut; Zwart, John-Anker.
174. Does high blood pressure reduce the risk of chronic low back pain? The Nord-Trøndelag Health Study. *European Journal of Pain* 2014 ;Volum 18.(4) s. 590-598
175. HEUCH, INGRID; **Heuch, Ivar**; Hagen, Knut; Zwart, John-Anker. Body Mass Index as a Risk Factor for Developing Chronic Low Back Pain A Follow-up in the Nord-Trøndelag Health Study. *Spine* 2013 ;Volum 38.(2) s. 133-139
176. Skiadopoulos, Konstantinos; **Giannakis, Konstantinos**; Tsipis, Athanasios; Oikonomou, Konstantinos; Stavarakakis, Ioannis. Impact of drone route geometry on information collection in wireless sensor networks. *Ad hoc networks* 2020 ;Volum 106.
177. **Johnston, Iain**; Dingle, Kamaludin; Greenbury, Sam; Camargo, Chico Q.; Doye, Jonathan P K; Ahnert, Sebastian E.; Louis, Ard A. (2022). **Symmetry and simplicity spontaneously emerge from the algorithmic nature of evolution.** *Proceedings of the National Academy of Sciences of the United States of America*.
178. Broz, Amanda K.; Keene, Alexandra; Gyorfy, Matheus Fernandes; Hodous, Mychaela; **Johnston, Iain**; Sloan, Daniel B. (2022). **Sorting of mitochondrial and plastid heteroplasmy in Arabidopsis is extremely rapid and depends on MSH1 activity.** *Proceedings of the National Academy of Sciences of the United States of America*.
179. Ziegler, Clare; Kulawska, Aleksandra; Kourmouli, Angeliki; Hamilton, Liz; Shi, Zongbo; MacKenzie, A. Robert; Dyson, Rosemary J.; **Johnston, Iain George**. (2022). **Quantification and uncertainty of root growth stimulation by elevated CO₂ in a mature temperate deciduous forest.** *Science of the Total Environment*.
180. **Johnston, Iain George**; Radzvilavicius, Arunas. (2022). **Organelle bottlenecks facilitate evolvability by traversing heteroplasmic fitness valleys .** *Frontiers in Genetics*.
181. Radzvilavicius, Arunas; **Johnston, Iain**. (2022). **Organelle bottlenecks facilitate evolvability by traversing heteroplasmic fitness valleys.** *Frontiers in Genetics*.
182. **Johnston, Iain George**. (2022). **Optimal strategies in the Fighting Fantasy gaming system: influencing stochastic dynamics by gambling with limited resource.** *European Journal of Operational Research*. 1272-1281.
183. **Johnston, Iain**; Slater, Mark; Cazier, Jean-Baptiste. (2022). **Interdisciplinary and Transferable Concepts in Bioinformatics Education: Observations and Approaches From a UK MSc Course.** *Frontiers in Education*.

184. Moen, Marcus Theodor; **Johnston, Iain George**. (2022). **HyperHMM: efficient inference of evolutionary and progressive dynamics on hypercubic transition graphs**. *Bioinformatics*.
185. **Giannakis, Konstantinos**; Chustecki, Joanna M.; **Johnston, Iain George**. (2022). **Exchange on dynamic encounter networks allows plant mitochondria to collect complete sets of mitochondrial DNA products despite their incomplete genomes**. *Quantitative Plant Biology*.
186. **Giannakis, Konstantinos**; Arrowsmith, Samuel J.; Richards, Luke; Gasparini, Sara; Chustecki, Joanna M.; Røyrvik, Ellen Christine; Johnston, Iain. (2022). **Evolutionary inference across eukaryotes identifies universal features shaping organelle gene retention**. *Cell Systems*. 874-884.e5.
187. Kerr, Ryan; Jabbari, Sara; Blair, Jessica; **Johnston, Iain George**. (2022). **Dynamic Boolean modelling reveals the influence of energy supply on bacterial efflux pump expression**. *Journal of the Royal Society Interface*. 1-14.
188. Chustecki, Joanna M.; Etherington, Ross D; Gibbs, Daniel J.; **Johnston, Iain George**. (2022). **Altered collective mitochondrial dynamics in the Arabidopsis msh1 mutant compromising organelle DNA maintenance**. *Journal of Experimental Botany*. 5428-5439.
189. Peach, Robert; Greenbury, Sam; **Johnston, Iain George**; yaliraki, sophia; Lefèvre, David; Barahona, Mauricio. (2021). **Understanding learner behaviour in online courses with Bayesian modelling and time series characterisation**. *Scientific Reports*.
190. Radzvilavicius, Arunas; Layh, Sean; Hall, Matthew D.; Dowling, Damian K.; **Johnston, Iain George**. (2021). **Sexually antagonistic evolution of mitochondrial and nuclear linkage**. *Journal of Evolutionary Biology*. 757-766.
191. Chustecki, Joanna M.; Gibbs, Daniel J.; Bassel, George W.; **Johnston, Iain George**. (2021). **Network analysis of Arabidopsis mitochondrial dynamics reveals a resolved tradeoff between physical distribution and social connectivity**. *Cell Systems*. 419-431.
192. Edwards, David; Røyrvik, Ellen Christine; Chustecki, Joanne; Giannakis, Konstantinos; Glastad, Robert Clay; Radzvilavicius, Arunas; **Johnston, Iain**. (2021). **Avoiding organelle mutational meltdown across eukaryotes with or without a germline bottleneck**. *PLoS Biology*.
193. Pantic, Boris; Ives, Daniel; Mennuni, Mara; Perez-Rodriguez, Diego; Fernandez-Pelayo, Uxo; Lopez de Arbina, Amaia; Muñoz-Oreja, Mikel; Villar-Fernandez, Marina; Dang, Thanh-mai Julie; Vergani, Lodovica; **Johnston, Iain George**; Pitceathly, Robert D. S.; McFarland, Robert; Hanna, Michael G.; Taylor, Robert W.; Holt, Ian J.; Spinazzola, Antonella. (2021). **2-Deoxy-D-glucose couples mitochondrial DNA replication with mitochondrial fitness and promotes the selection of wild-type over mutant mitochondrial DNA**. *Nature Communications*.
194. Athanasiou, Angelos-Theodoros; Nussbaumer, T; Kummer, Stefan; Hofer, Martin; **Johnston, Iain**; Staltner, Moritz; Allmer, Daniela M.; Scott, Milcah C.; Vogl, Claus; Fenger, Joelle M.; Modiano, Jaime F.; Walter, Ingrid; Steinborn, Ralf. (2020). **S100A4 mRNA-protein relationship uncovered by measurement noise reduction**. *Journal of Molecular Medicine*. 735-749.
195. Røyrvik, Ellen Christine; **Johnston, Iain**. (2020). **MtDNA sequence features associated with 'selfish genomes' predict tissue-specific segregation and reversion**. *Nucleic Acids Research (NAR)*. 8290-8301.
196. Duran-Nebreda, Salva; **Johnston, Iain George**; Bassel, George. (2020). **Efficient vasculature investment in tissues can be determined without global information**. *Journal of the Royal Society Interface*.
197. Johnston, Iain George; Røyrvik, Ellen Christine. (2020). **Data-Driven Inference Reveals Distinct and Conserved Dynamic Pathways of Tool Use Emergence across Animal Taxa**. *iScience*.
198. Lechuga-Vieco, Ana Victoria; Latorre-Pellicer, Ana; **Johnston, Iain**; Prota, Gennaro; Gileadi, Uzi; Justo-Méndez, Raquel; Acín-Pérez, Rebeca; Martínez-De-Mena, Raquel; Fernández-Toro, Jose María; Jimenez-Blasco, Daniel; Mora, Alfonso; Nicolás-Ávila, Jose A.; Santiago, Demetrio J.; Priori, Silvia G.; Bolaños, Juan Pedro; Sabio, Guadalupe; Criado, Luis Miguel; Ruíz-Cabello, Jesús; Cerundolo, Vincenzo; Jones, Nick S.; Enríquez, Jose Antonio. (2020). **Cell identity and nucleo-mitochondrial genetic context modulate OXPHOS performance and determine somatic heteroplasmy dynamics**. *Science Advances*. 1-13.

199. **Johnston, Iain George.** (2019). **Varied mechanisms and models for the varying mitochondrial bottleneck.** *Frontiers in Cell and Developmental Biology.* 1-16.
200. **Johnston, Iain.** (2019). **Tension and resolution: dynamic, evolving populations of organelle genomes within plant cells.** *Molecular Plant.* 764.
201. **Johnston, Iain George;** Hoffmann, Till; Greenbury, Sam; Cominetti, Ornella; Jallow, Muminatou; Kwiatkowski, Dominic; Barahona, Mauricio; Jones, Nick; Casals-Pascual, Climent. (2019). **Precision identification of high-risk phenotypes and progression pathways in severe malaria without requiring longitudinal data.** *npj Digital Medicine.* 1.
202. Ziegler, Clare; Dyson, Rosemary; **Johnston, Iain George.** (2019). **Model selection and parameter estimation for root architecture models using likelihood-free inference.** *Journal of the Royal Society Interface.* 1-10.
203. Aryaman, Juvid; Bowles, Charlotte; Jones, Nick; **Johnston, Iain George.** (2019). **Mitochondrial network state scales mtDNA genetic dynamics.** *Genetics.* 1429-1443.
204. Kerr, Ryan; Jabbari, Sara; **Johnston, Iain.** (2019). **Intracellular Energy Variability Modulates Cellular Decision-Making Capacity.** *Scientific Reports.* 1-12.
205. Greenbury, Sam; Barahona, Mauricio; **Johnston, Iain.** (2019). **HyperTraPS: Inferring probabilistic patterns of trait acquisition in evolutionary and disease progression pathways.** *Cell Systems.* 1.
206. Johnston, Iain George; Burgstaller, Joerg. (2019). **Evolving mtDNA populations within cells.** *Biochemical Society Transactions.* 1367.
207. Hoitzing, Hanne; Gammage, Payam; van Haute, Lindsey; Minczuk, Michal; **Johnston, Iain;** Jones, Nick. (2019). **Energetic costs of cellular and therapeutic control of stochastic mitochondrial DNA populations.** *PLoS Computational Biology.* e1007023.
208. **Johnston, Iain George.** (2019). **Regulation of Mother-to-Offspring Transmission of mtDNA Heteroplasmy.** *Cell Metabolism.*
209. **Johnston, Iain;** Bassel, George. (2018). **Identification of a bet-hedging network motif generating noise in hormone concentrations and germination propensity in Arabidopsis.** *Journal of the Royal Society Interface.* 20180042.
210. Hølleland, Sondre; **Karlsen, Hans.** (2020). **Decline in temperature variability on Svalbard.** *Journal of Climate.* 8475-8486.
211. Hølleland, Sondre; **Karlsen, Hans.** (2019). **A Stationary Spatio-Temporal GARCH Model.** *Journal of Time Series Analysis.* 1-33.
212. Stordal, Andreas S.; **Karlsen, Hans.** (2017). **Large sample properties of the adaptive gaussian mixture filter.** *Monthly Weather Review.* 2533-2553.
213. Lorentzen, Rolf; Stordal, Andreas S.; Nævdal, Geir; **Karlsen, Hans A; Skaug, Hans J.** (2014). **Estimation of production rates with transient well-flow modeling and the auxiliary particle filter.** *SPE Journal.* 172-180.
214. Otneim, Håkon; **Karlsen, Hans A;** Tjøstheim, Dag Bjarne. (2013). **Bias and bandwidth for local likelihood density estimation.** *Statistics and Probability Letters.* 1382-1387.
215. Myklebust, Terje; **Karlsen, Hans A;** Tjøstheim, Dag Bjarne. (2012). **Null recurrent unit root processes.** *Econometric Theory.* 1-41.
216. Stordal, Andreas S.; **Karlsen, Hans A;** Nævdal, Geir; Oliver, Dean; Skaug, Hans J. (2012). **Filtering with state space localized Kalman gain.** *Physica D : Non-linear phenomena.* 1123-1135.
217. Stordal, Andreas S.; Valestrand, Randi; **Karlsen, Hans A;** Nævdal, Geir; Skaug, Hans J. (2012). **Comparing the adaptive Gaussian mixture filter with the ensemble Kalman filter on synthetic reservoir models.** *Computational Geosciences.* 467-482.
218. Otneim, Håkon; Berentsen, Geir Drage; **Tjøstheim, Dag Bjarne.** (2022). **Local Lead-Lag Relationships and Nonlinear Granger Causality: An Empirical Analysis.** *Entropy.* 17 sider.
219. Otneim, Håkon; **Tjøstheim, Dag Bjarne.** (2021). **The locally Gaussian partial correlation.** *Journal of business & economic statistics.* 924-936.

220. **Tjøstheim, Dag Bjarne.** (2020). **Some notes on nonlinear cointegration: A partial review with some novel perspectives.** *Econometric Reviews.* 655-673.
221. Bravo, Francesco; Li, Degui; **Tjøstheim, Dag Bjarne.** (2020). **Robust nonlinear regression estimation in null recurrent time series.** *Journal of Econometrics.*
222. Otneim, Håkon; Jullum, Martin; **Tjøstheim, Dag Bjarne.** (2020). **Pairwise local Fisher and naive Bayes: Improving two standard discriminants.** *Journal of Econometrics.* 284-304.
223. Jiang, Zhenyu; Ling, Nengxiang; Lu, Zudi; **Tjøstheim, Dag Bjarne;** Zhang, Qiang. (2020). **On bandwidth choice for spatial data density estimation.** *Journal of The Royal Statistical Society Series B-statistical Methodology.* 817-840.
224. Jordanger, Lars Arne; Tjøstheim, Dag Bjarne. (2020). **Nonlinear Spectral Analysis: A Local Gaussian Approach.** *Journal of the American Statistical Association.*
225. **Tjøstheim, Dag Bjarne.** (2019). **Discussion of Models as Approximations I & II.** *Statistical Science.* 575-579.
226. Lacal, Virginia; **Tjøstheim, Dag Bjarne.** (2018). **Estimating and Testing Nonlinear Local Dependence Between Two Time Series.** *Journal of business & economic statistics.* 1-13.
227. Lee, Youngmi; Lee, Sangyeol; Tjøstheim, Dag Bjarne. (2018). **Asymptotic normality and parameter change test for bivariate Poisson INGARCH models.** *Test (Madrid).* 52-69.
228. Dong, Chaohua; Gao, Jiti; **Tjøstheim, Dag Bjarne;** Yin, Jiying. (2017). **Specification testing for nonlinear multivariate cointegrating regressions.** *Journal of Econometrics.* 104-117.
229. Eyjolfsson, Heidar; **Tjøstheim, Dag Bjarne.** (2017). **Self-exciting jump processes with applications to energy markets.** *Annals of the Institute of Statistical Mathematics.* 373-393.
230. Lacal Graziani, Virginia; **Tjøstheim, Dag Bjarne.** (2017). **Local Gaussian autocorrelation and tests for serial independence.** *Journal of Time Series Analysis.* 51-71.
231. Otneim, Håkon; **Tjøstheim, Dag Bjarne.** (2017). **Conditional density estimation using the local Gaussian correlation.** *Statistics and computing.* 303-321.
232. Cai, Biqing; Gao, Jiti; **Tjøstheim, Dag Bjarne.** (2017). **A new class of bivariate threshold cointegration models.** *Journal of business & economic statistics.* 288-305.
233. Otneim, Håkon; **Tjøstheim, Dag Bjarne.** (2016). **The locally Gaussian density estimator for multivariate data.** *Statistics and computing.* 1-22.
234. Berentsen, Geir Drage; Cao, Ricardo; Francisco-Fernandez, Mario; **Tjøstheim, Dag Bjarne.** (2016). **Some properties of local Gaussian correlation and other nonlinear dependence measures.** *Journal of Time Series Analysis.* 352-380.
235. Li, Degui; Tjøstheim, Dag Bjarne; Gao, Jiti. (2016). **Estimation in nonlinear regression with harris recurrent markov chains.** *Annals of Statistics.* 1957-1987.
236. Dong, Chaohua; Gao, Jiti; **Tjøstheim, Dag Bjarne.** (2016). **Estimation for single-index and partially linear single-index integrated models.** *Annals of Statistics.* 425-453.
237. Holmin, Arne Johannes; Korneliussen, Rolf; Tjøstheim, Dag Bjarne. (2016). **Estimation and simulation of multi-beam sonar noise.** *Journal of the Acoustical Society of America.* 851-862.
238. Cai, Biqing; **Tjøstheim, Dag Bjarne.** (2015). **Nonparametric regression estimation for multivariate null recurrent processes.** *Econometrics.* 265-288.
239. Gao, Jiti; Kanaya, Shin; Li, Degui; **Tjøstheim, Dag Bjarne.** (2014). **Uniform consistency for nonparametric estimators in null recurrent time series.** *Econometric Theory.*
240. Berentsen, Geir Drage; **Tjøstheim, Dag Bjarne.** (2014). **Recognizing and visualizing departures from independence in bivariate data using local Gaussian correlation.** *Statistics and computing.* 785-801.
241. Lu, Zudi; **Tjøstheim, Dag Bjarne.** (2014). **Nonparametric estimation of probability density functions for irregularly observed spatial data.** *Journal of the American Statistical Association.* 1546-1564.
242. **Støve, Bård; Tjøstheim, Dag Bjarne.** (2014). **Modellering av avhengigheter i finansmarkeder : lokal gaussisk korrelasjon.** *Magma forskning og viten.* 103-113.

243. Jordanger, Lars Arne; Tjøstheim, Dag Bjarne. (2014). **Model selection of copulas: AIC versus a cross validation copula information criterion.** *Statistics and Probability Letters.* 249-255.
244. Berentsen, Geir Drage; Kleppe, Tore Selland; **Tjøstheim, Dag Bjarne.** (2014). **Introducing localgauss, an R package for estimating and visualizing local Gaussian correlation.** *Journal of Statistical Software.* 1-18.
245. **Tjøstheim, Dag Bjarne;** Hufthammer, Karl Ove. (2013). **Local Gaussian correlation: A new measure of dependence.** *Journal of Econometrics.* 33-48.
246. Gao, Jiti; **Tjøstheim, Dag Bjarne;** Yin, Jiying. (2013). **Estimation in threshold autoregressive models with a stationary and a unit root regime.** *Journal of Econometrics.* 1-13.
247. Doukhan, Paul; Fokianos, Konstantinos; Tjøstheim, Dag Bjarne. (2013). **Correction to "On weak dependence conditions for Poisson autoregressions" [Statist. Probab. Lett. 82 (2012) 942-948].** *Statistics and Probability Letters.* 1926-1927.
248. Handegard, Nils Olav; Boswell, Kevin M.; Ioannou, Christos; Leblanc, Simon P.; **Tjøstheim, Dag Bjarne;** Couzin, Iain D. (2012). **The dynamics of coordinated group hunting and collective information transfer among schooling prey.** *Current Biology.* 1213-1217.
249. **Tjøstheim, Dag Bjarne.** (2012). **Some recent theory for autoregressive count time series.** *Test (Madrid).* 413-438.
250. Holmin, Arne Johannes; Handegard, Nils Olav; Korneliussen, Rolf; **Tjøstheim, Dag Bjarne.** (2012). **Simulations of multi-beam sonar echos from schooling individual fish in a quiet environment.** *Journal of the Acoustical Society of America.* 3720-3734.
251. Doukhan, Paul; Fokianos, Konstantinos; **Tjøstheim, Dag Bjarne.** (2012). **On weak dependence conditions for Poisson autoregressions.** *Statistics and Probability Letters.* 942-948.
252. Fokianos, Konstantinos; **Tjøstheim, Dag Bjarne.** (2012). **Nonlinear Poisson autoregression.** *Annals of the Institute of Statistical Mathematics.* 1205-1225.
253. Kvamstø, Nils Gunnar; Steinskog, Dag Johan; Stephenson, David; **Tjøstheim, Dag Bjarne.** (2012). **Estimation of trends in extreme melt-season duration at Svalbard.** *International Journal of Climatology.* 2227-2239.