

Arnoldo Frigessi, Curriculum vitae

Personal information

Born in Milano, Italy, 13. 4. 1959. Italian citizen.

Affiliations: Oslo Centre of Biostatistics and Epidemiology,
Institute of Basic Medical Sciences, University of Oslo,
PB 1122 Blindern, N-0317 Oslo, Norway
and
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<https://scholar.google.com/citations?user=1h8UJ0cAAAAJ&hl=en>

Education, positions

Current positions:

2003 – Professor in Statistics, Department of Biostatistics, University of Oslo
2023 – 2026 Director of the Norwegian centre of excellence INTEGRATE, The Norwegian Centre for knowledge-driven Machine Learning. From 2026 co-director.

Previous positions:

2014-2023	Director of the Oslo Centre for Biostatistics and Epidemiology, Institute of Basic Medical Sciences, University of Oslo and Oslo University Hospital, Norway
2015-2023	Director of the Norwegian centre for research-based innovation (sfi) Big Insight -Statistics for the knowledge economy
2020-2023	Director of the Graduate School NORA on Artificial Intelligence, funded by NFR
2007-2014	Director, NFR Norwegian centre for research-based innovation (sfi) <i>Statistics for Innovation</i>
2000-2003	Adjunct Professor (20% position), Department of Mathematics, University of Oslo
1997-2003	Chief Research Scientists. Norwegian Computing Centre (NR), Oslo
1994-1997	Associate Professor in Statistics, Third University of Rome, Italy
1992-1994	Associate Professor in Probability and Statistics, University of Venezia, Italy
1986-1992	Researcher, Istituto per le Applicazioni del Calcolo (IAC), Roma, Italy
-1983	Italian Laurea (MSc) in Mathematics, University of Milano

Awards

- Elected member of the Royal Norwegian Academy of Sciences and Letters, Oslo, 2008.
- Elected member of the Norwegian Academy of Technological Sciences, Trondheim, 2008.
- Inven2 Idéprisen for the three best innovation projects at UiO and OUS, 2016
- Digital Life Norway prize for best transdisciplinary publication 2019
- IMA, Minneapolis, USA, Ordway distinguished researcher, 2020
- Knighted Cavaliere Ordine al Merito della Repubblica Italiana, Italy, 2021
- Sverdrup prize, honouring a prominent statistician in Norway, 2021

Supervision

Ph.D supervisions (**current in bold**, (co-supervisors in parenthesis); when I have a minor role text is in small characters):

1. *Paula Gonzaga de Sa'*, Université de Louvain, 1991-93, Approximated image restoration.
2. *Fabio Divino*, University of Florence, 1994-96, Penalised pseudolikelihood estimation with applications in spatial statistics.
3. Marco di Zio, University of Rome I, 1996-98, Wavelets: theory and applications.
4. *Maria R. Sebastiani*, University of Florence, 1996-98, Spatial models for the identification of local labour markets.
5. *Xeni Dimakos*, University of Oslo, 1998-2000, Topics in computer intensive inference.
6. *Sveinung Erland*, NTNU Trondheim, 1999-2003, Adaptive MCMC. (*Rue*)
7. *Turid Follestad*, NTNU Trondheim, 1999-2003, Modelling in space and time. (*Rue*)
8. *Inge Olsen*, NTNU Trondheim, 2002-2006, population dynamics. (*Rue*)
9. *Ida Scheel*, UiO, 2004-2008, statistical genomics (Glad and Hjort).
10. *Egil Ferkingstad*, UiO, 2004-8, causality in statistics with applications to genomics. (Aalen)
11. *StåleNygård*, UiO, 2004-2008, statistical genomics. (Borgan and Aldrin)
12. *Ragnar Nesvåg*, UiO, 2004-2008, psychiatric disorders, genomics, MRI. (Agartz)
13. *Hege Bøvelstad*, UiO, 2006-2010, Statistical methodologies for prediction based on high dimensional genomic data. (Borgan and Liestøl)
14. *Hayat Mohammed*, UiO, 2007-2011, Statistical Genomics. (Glad)
15. *Ragnhild Raastad*, UiO, 2008-??, Risk factors for antibiotics resistance. (Müller) Not completed!
16. *Glenn Lawyer*, UiO, 2005-2008, Neurocomputing, (Agartz)
17. *Alessandro Ottavi*, NTNU, 2008-2011, spatial statistics and climate (*Rue*) (interrupted)
18. *Marissa LeBlanc*, UiO, 2008-16, Statistical methods for genetic association studies, (Kulle, Andreassen)
19. *Ingrid H. Haff*, UiO, 2009-12, Pair-copula constructions of multiple dependence. (Aas, Borgan)
20. *Halfdan Rydbeck*, UiO, 2008-2013, Integrative epigenome analysis. (Ola Myklebost, Eivind Hovig, Knut Liestøl)
21. Gudmund Horn Hermansen, UiO, 2008-2011, Nonparametric space-time models (Hjort)
22. *Øystein Sørensen*, UiO, 2011-2015, Lasso in regression with measurement error. (Thoresen)
23. *Jonas Paulsen*, UiO 2011-2014, The dynamic genome: computational aspects of the three-dimensional and epigenetic architecture of the genome. (Eivind Hovig)
24. Himanshu Joshi, UiO 2013-4, Towards pathway-based medicine in breast cancer. (Kristensen, Børresen-Dale)
25. Dennis Linder, UiO 2011-2016, Simulation of Life Course in Psoriasis. (Keilman)
26. Reinaldo Marquez, UiO 2011-15, Sequential inference in dynamic hierarchical models (Storvik)
27. Kristoffer Helton, UiO 2011-2015, PCA with $p \gg n$ variables and measurement error. (Thoresen)
28. Christian Rohrbeck STORi Lancaster University, 2013-2016, Monotone spatial regression with applications to weather related insurance claims. (Co-supervision with Debbie Costain, Jon Tawn, Ida Scheel)
29. Denekew Belay, Hawassa University, 2013-2017, Modelling Ethiopian malaria data (Taye)
30. Negusse Sebro, Hawassa University, 2013-2017, Progression in primary school in Ethiopia (Taye, Aldrin),
31. Richard Xiaoran Lai, UiO, 2014-2017, Models of breast cancer growth at cell level.
32. Jamie-Leigh Chapman, STORi Lancaster University, 2014-2017, Prediction of change points. (Co-supervision with Rebecca Killick, Idris Ekeley)
33. Derbachew Asfaw, Hawassa University and UiO, 2015-2018, Modelling rankings changing in time (Co-supervision with Zeytu Gashaw)
34. Emma Simpson, STORi Lancaster University, 2016-2018, Multivariate Extreme Value Theory for Vines and Graphical Models (Co-supervision with Jon Tawn, Emma, Ingrid Hobæk Haff)

35. Marta Crispino (Bocconi, Milano) 2015-2017, Preference learning (Arjas)
36. Andrea Chi Zhang, UiO 2016-2023, Electronic health records and patient safety (Co-supervision Magne Thoresen)
37. Solveig Engebretsen, UiO 2016-2019, How does individual mobility help management of epidemics, (Co supervision Brigitte F De Blasio, Kenth Engo-Monsen)
38. Sylvia Qinghua Liu, UiO, 2016-2020, Recommender system (with Ida Scheel)
39. George Zhi Zhao, UiO 2016-2019, Predicting drug responses and identification of treatment targets in personalised cancer therapy, (Co-sup Manuela Zucknick)
40. **Jarek Nowak**, UiO 2018-2021. Industrial PhD with ABB. Sensor data. (Co-sup Morten Stakkeland)
41. **Simen Eide**, UiO, 2018-2021. Industrial PhD with finn.no. Recommender systems in a marketplace. (Co-sup David Leslie)
42. Anja Stein U Lancaster, 2018-2023. Multiarmed Bayesian bandits for recommender systems. (Co-sup David Leslie)
43. Naomi Azulay UiO, 2019-2023, Tromsø study. (Co-sup Christian Tronstad, Leiv Arne Rosseland)
44. **Teshome Dadi**, U Jimma, Ethiopia, 2019-2024, Dietary diversity and agricultural production diversity in rural Ethiopia.
45. **Henok Asefa**, U Jimma, Ethiopia, 2019-2024, Non communicable diseases in Ethiopia. (Co-sup Rene' Holst)
46. **Haifeng Hu**, UiO, 2020-2024, ML in integrative genomics, Co-sup, Tero Aittokallio.
47. **Even Moa Myklebust**, UiO. 2020-2023, Clone estimation in cancer. Co-sup Alvaro K Luque.
48. **Emilie Ødegaard**, UiO 2020-2023, Bayesian Mallows model (Co-sup Valeria Vitelli)
49. **Elisabeth Griesbauer**, UiO 2022-2025, Vines in Machine learning (Co-sup Ingrid H. Haff)

About 50% of my Phd students were female.

Informal co-supervision of Ph.D thesis:

1. *Håvard Rue*, NTH, Trondheim, 1992-93, Topics in Image Analysis
2. *Knut Heggland*, Oslo, 2000-not completed, Simulation based inference.

Supervision of post-docs:

1. *Angela Mariotto*, Italian Research Council, 1990;
2. *Laurent Younes*, Italian Research Council, 1991;
3. *Julian Stander*, British Royal Society, 1992--93;
4. *E. Clare Marschall*, EU TMR Spatial and Computational Statistics, 1999-00;
5. *Mark van de Wiel*, EU TMR Spatial and Computational Statistics, 2001.
6. *Bettina Kulle*, NFR FUGE, Statistical genomics, 2005-2008.
7. *Petter Mostad*, NFR GeneStat, 2005-2006.
8. *Andrew Brown*, FUGE, TOP project, 2008-2010.
9. *Ida Scheel*, UiO (2008-2010)
10. *Egil Ferkingstad*, NR (2007-2009)
11. Valeria Vitelli, UiO 2013-2018
12. Alvaro Kohn Loque, EU Scientia Fellow, Researcher 2016-2021
13. Andrea Cremaschi, UiO, 2016-2019
14. Christian Page. HSØ, 2016-2020
15. Xiaoran Lai, UiO, 2019-2022
16. Vandana Vandana, UiO, 2020-2023
17. **Youness Azimzade**, UiO, 2021-2024
18. **Leonard Schmiester**, UiO, 2021-2024
19. **Mauricio Soares**, UiO, 2021-2024
20. **Erlend Fosen**, UiO, 2022-2024
21. **Hilde Brustad**, UiO, 2022-2024
22. **Euloge Clovis Kenne Pagui**, UiO, 2022-2024

Teaching

Courses taught at various levels: Statistics, Random fields, Statistical image analysis, Probability theory, Calculus, Stochastic processes, Graph theory, Markov chain Monte Carlo, Extreme value theory in actuarial and environmental sciences, Stochastic simulation, Linear models, Basic statistics and epidemiology in COVID-19 times. I have been teaching postdoctoral courses in several international summer schools. I have supervised 12 students for the Italian and Norwegian master and 9 MSc, University of Hawassa, Ethiopia. Since 2014 I have had no teaching duties at UiO, but I teach occasionally for example in UiO's honour bachelor programme.

Editorial activities:

- Royal Statistical Society new journal, Data Science, founding associate editor (2023-)
- Statistics in Medicine, associated editor, (2020-2023)
- STAT, co-editor and co-founder, (2011-2020)
- International Statistical Review, co-editor, (2011-2014)
- Journal of Applied Statistics in Business and Industry, ass. editor (2002- 2014).
- Journal of the Royal Statistical Society, Series B, associate editor, (2005-2007)
- Scandinavian Journal of Statistics, ass. editor (2000-2005)

Research funding, currently:

2023-2033	Director of INTEGRATE, the Norwegian centre of excellence in Knowledge-driven Machine Learning. Budget: 4 mil € per year. 80 PhD students and postdocs, 24 PIs, 100 researchers.
2015-2023	Director of <i>BigInsight</i> , Norwegian Centre for Research-based Innovation, funded by NFR. Consortium of 13 partners: University of Oslo, Oslo University Hospital, NR, University of Bergen, ABB, DNB, DNV-GL, Statistics Norway, Gjensidige, Norsk Hydro, NAV, Skatteetaten and Telenor. Budget: 4 mil € per year. Affiliated scientists: ca. 100, with a core of 40.
2021-2024	Data streams and mathematical modelling pipelines to support preparedness and decision making for COVID-19 and future pandemics (NordicMathCovid), NordForsk, PI, 12 mil kr.
2020-2023	RESCUER, Resistance Under Combinatorial Treatment in ER+ and ER- Breast Cancer, EU H2020 project, co-coordinator with Vessela Kristensen, 6 mil €, 15 partners.
2020-2024	BD4QOL Big Data models and intelligent tools for quality of life monitoring and participatory empowerment of head and neck cancer survivors, EU H2020, WP leader, 9 mil NOK.
2019-2023	Digital Life Norway, Pipeline for individually tailoring new treatments in haematological cancers, funded by NFR, co-PI with Kjetil Tasken, 25 mil NOK.
2020-2023	Resistance under treatment in breast cancer, funded by EU EraCosyMed, joint transnational call, Coordinator, 2.5 mil €.
2020-2024	Digital Life Norway, A road map for academic research-intensive innovation from the Centre of Digital Life, funded by NFR, PI, 30 mil NOK.
2020-2023	Norwegian-American Alliance for Research and Education in Data Driven Mathematical Models of Cancer, UiO & U Minneapolis, PI, 4 mil kr
2017-2023	PerCaThe Personalised Cancer Therapy, UiO Convergence Environment, PI, 1 mil Euro.

Professional activities, currently:

2022-	dScience, UiO centre for computational science and data science, member of the advising board
2021-2023	Bernoulli Society & Institute Mathematical Statistics, Committee on Special Lectures, chair
2020 -2023	Norwegian Centre for Molecular Medicine NCMM, Oslo, member of the board
2012-	External Advisory Board's of STORi, Statistics and Operational Research Doctoral Training Centre Lancaster University, since 2021 chair.
2022-	Centro Universitario di Statistica per le Scienze Biomediche, Universita' San Raffaele, Milano, member advising committee
2021-2025	Digital Life Norway, Expert task force, member
2023-	UiO, Faculty of Medicine, Likestillings- og mangfoldsutvalget, member

- 3rd International Statistical Institute Regional Conference, Zambia, chair scientific committee, 2020/23
- Member of the scientific committee of 22nd EUROPEAN MEETING OF STATISTICIANS, Moscow, 2022, Now Warsaw 2023

Past grants:

2007-2014	Director of Statistics for Innovation (http://sfi.nr.no), one of the Norwegian Centres for Research-based Innovation. Statistics for Innovation will develop core statistical methodologies, strategically necessary to achieve innovation goals in four key sectors: petroleum, finance, marine and health. The centre started in 2007 and operated for eight years. It is based at the Norwegian Computing Center (Norsk Regnesentral, NR) in Oslo and is a partnership with the University of Oslo (UiO), the Norwegian University of Science and Technology (NTNU) and 11 partners: Statoil, DnBNOR, Gjensidige, Hydro, Institute of Marine Research, Sencel, Biomolex, Pubgene, The Oslo University Hospital, Smerud Medical research and Spermatech. Statistics for Innovation is funded by the Research Council of Norway and by the partners, with an annual budget of about 4 million Euro. About 100 researchers join the research projects of the centre. Statistics for Innovation participates to the UiO training programme and funds many Ph.D grants and postdocs.
2010-2022	MASTMO Master in mathematical and statistical modelling at University of Hawassa, Ethiopia. NTNU (Omre) is PI. Funded by NORAD. This project has been refunded and includes PhD students.
2013-2016	Norwegian Cancer Association. Integrative Genomics (with Thoresen). 1 Postdoc.
2017-2020	DataScience@UiO innovation cluster, 4 PhD students, PI Glad.
2016-2019	Helse Sør Ost research programme: Melanoma heterogeneity: understanding for better prevention, (with Veierød). 1 PhD student
2014	Abel Symposium 2014 on high dimensional data, PI.
2010-2013	Statistical Approaches to Regional Climate Models for Adaptation: A Nordic Top-level Research Initiative (Funded by the Nordic Top-level Research Initiative), PI
2009-2013	Norklima. Insuring Future Climate Chang, PI. • Norwegian Research Council:
2007-2011	Norwegian Research Council grant: Imaging genetics of schizophrenia. A whole genome – brain MRI study.
2005-2009	Statgene: Statistics for genomic research, 2005-2009. PI. About 7 mil kr in total

2008-2010	Marie Curie Industry-Academia Partnerships and Pathways (IAPP) grant, 2008-2010, Total 1 mil Euro. CLIMATE CHANGE and the INSURANCE INDUSTRY. Frigessi is PI and leads the network. Partners: Gjensidige, Llyods, London School of Economics.
2007-2009	Norwegian Research Council grant: Tracing viral disease dissemination in aquaculture: an interdisciplinary approach between molecular virology and dispersal modelling.
2006-2010	Helse Sør-Ost: Utvikling av statistiske modeller for predikering og reduksjon av fremtidig antibiotikaresistens, 2006-2010, joint PI.
1998-2002	PI, Strategic Institute Project on "Knowledge, Data, and Decisions", Norwegian Research Council, 1998-2002, 1,7 million Euro. Leading the project involving about 30 statisticians.
2000-2004	NFR grant BeMatA: Structured Stochastic Models in Biological Marine Systems, 2000-4.
2001-2003	EU grant STEPICA: The Plague in Central Asia, 2001-2003.
1993-1995; 1997-2000	Member of the steering committee of the scientific programme on "Highly Structured Stochastic Systems", funded by the European Science Foundation for 1993-1995 and 1997-2000. This programme has been central in European statistics.

Past professional activities (selection):

2012-2018	Scientific advisory board, e-Science for Cancer Prevention, Karolinska Institute, Stockholm
2018 -2021	Simula@OsloMet, Centre for Digital Engineering, member Scientific Advisory Board
2017-2021	STATSCALE, EPSRC funded, Scientific Advisory Board, chair.
2018-2020	Royal Statistical Society, London, member of the council
2016-2017	ERC Advanced Grants, PE1 Mathematics, Panel member
2015-2018	Canadian Statistical Sciences Institute, Board of Directors, member
2007-2014	Centre Research in Statistical Methodology, Univ. Warwick, scientific committee, member
2022	Evaluation of the Department of Mathematics, ETH Zürich, 2022
2015-2018	Member, Board of Directors, Canadian Statistical Sciences Institute, 2015-18
2018-2020	Centre for Digital Engineering, OSLOMET and Simula Centre, advisory committee
2012-2014	IMS, Member of the Council, 2012-2014
2007-2014	Scientific committee of the Centre for Research in Statistical Methodology (CRiSM), Warwick, UK,
2016-2020	Member of the Scientific Advisory Board of the Swedish SFF Material structures seen through microscopes and statistics funded by the Swedish Foundation for Strategic Research and Wallenberg, Gothenburg,
2012	Chairman of the Scientific Programme Committee, 9th World Congress in Probability and Statistics (IMS and Bernoulli Society), Koç University, Istanbul July 9 to 14, 2012. Organiser of the Pre-world congress meeting of young statistician, with focus on participants from the developing countries. Funding from World Bank, Biometrika Trust, Google, and various international scientific societies. Istanbul, July 2012.
2014	Site Review Committee Canadian Mathematics Institutes, Fields, PIMS, CRM, 2014
2004- 2009	Member of the scientific committee of EURANDOM, Eindhoven,.
2004-2008	Scientific Secretary, Bernoulli Society for Mathematical Statistics and Probability
2005-2008	Steering committee of the research programme eVITA (e-science), NFR,
1997-2001	Member of the scientific committee of the EU TMR programme, "Spatial and Computational Statistics",. The programme has a budget of circa 19 mil. Euro, for its 7

	international nodes. I was leader of the Rome-Oslo node.
1999-2000	Member of the European Regional Committee of the Bernoulli Society (1999-2002, programme co-ordinator)
2001-2002	Member of the Steering Committee of the European Network for Business and Industrial Statistics

- Member of Programme Committee, European meeting of Statistics 2010, Pireus, Greece.
- Member of Programme Committee, NORDSTAT 2010, Voss, Norway.
- Scientific committee, 7th Bernoulli World Conference, Singapore, 2008
- Scientific committee, 5th European Mathematical Conference, Amsterdam, 2008.
- Chairman, organising committee of the 25th European Meeting of Statisticians, Oslo 2005
- Member, organising committee, Nordic Meeting International Biometric Society, Oslo 2005
- Scientific committee of the 13th conference on Mathematics for Industry, Eindhoven, 2004.
- Organiser of the European young statisticians training camp to the 25th European Meeting of Statisticians, Oslo, 2005, with funding from the EU
- Member of the evaluation committee of PhDs in Norway (several times), Belgium, Denmark, Italy, Finland, Sweden, Germany.
- Referee of research projects for the National Science Foundation (USA), the Israeli Science Foundation, the Swedish Research Council, the Finish Academy of Sciences, the Irish Research Council, the Swiss National Research Council, the Italian Ministry for Education and Research, the University of Copenhagen, the University of Padova, Bocconi University, Cancer Research UK, EPSRC.
- The University of Copenhagen Panel member 2016 and 2019.
- Evaluator for the Italian ministry of Education, 2012-2013.
- Member of the committee for the appointment of professors and associate professors in the universities of Helsinki, München, Copenhagen, Oslo, Lancaster, Chalmers Gothenburg, Jyväskylä, Aarhus, Warwick, P.O.Catolica de Chile, Technical University Dortmund, Cambridge, Oxford, Bocconi.

Invited presentations to internationally established conferences: (selection, recent)

- 30th European Meeting of Statisticians, Amsterdam, invited speaker, 2015
- 27th Nordic Mathematics Congress, invited, Stockholm, 2016
- ENBIS-17, Napoli, key-note speaker, 2017
- KAUST workshop in statistics, Saudi Arabia, invited, 2017
- Institute Mathematical Statistics Annual Meeting, invited session and invited talk, 2018
- 62nd ISI World Statistics Congress, Kuala Lumpur, invited lecture, 2019
- CMStatistics (ERCIM), London, invited speaker, 2019
- Royal Statistical Society Annual Conference, Belfast, invited speaker, 2019
- Newton Institute, Cambridge, Covid-19 workshop, invited lecturer, 2020
- The American Physical Society COVID Research and Resources Group, invited webinar, 2021
- HiDATA webinar: Data Science in the Post-Covid World, Aalto Univ., invited speaker, 2021
- Neyman Seminar, Berkeley, 2022
- NORA Annual Conference, key-speaker, 2023
- Festschrift for Sylvia Richardson, Cambridge, invited speaker, 2023
- CUSSB, Università' San Raffaele, Milano, invited speaker, 2023

Publications

<https://scholar.google.com/citations?user=1h8UJ0cAAAAJ&hl=en>

Peer reviewed journal papers

1. A. Frigessi and C. Vercellis, An Analysis of Monte Carlo Methods for Counting Problems, *Calcolo*, vol. 22, 1986, 413-428
2. A. Frigessi and F. den Hollander, A Stochastic Model for the Membrane Potential of a Stimulated Neurone, *Journal of Mathematical Biology*, n. 6, vol. 27, 1989, 681-692
3. A. Frigessi and M. Piccioni, Parameter Estimation for Two-dimensional Ising Fields Corrupted by Noise, *Stochastic Processes and their Applications*, 2, vol. 34, 1990, 297-311
4. P. Barone and A. Frigessi, Improving Stochastic Relaxation for Gaussian Random Fields, *Probability in the Engineering and Informational Sciences*, vol. 4, 1990, 369-381
5. A. Frigessi, C. R. Hwang, S. J. Sheu and P. di Stefano, Convergence Rate of the Gibbs Sampler, the Metropolis Algorithm and Other Single-Site Updating Dynamics, *Journal of the Royal Statistical Society, series B*, vol. 55, n. 1, 1993, 205-219
6. A. Frigessi, C. R. Hwang and L. Younes, Optimal Spectral Structure of Reversible Stochastic Matrices, *Monte Carlo Methods and the Simulation of Markov Random Fields, Annals of Applied Probability*, vol. 2, 1992, 610-628
7. P. Ferrari, A. Frigessi, and R. Schonmann, Convergence of Some Partially Parallel Gibbs Sampler with Annealing, *Annals of Applied Probability*, vol. 3, n. 1, 1993, 137-153
8. P. Baldi, A. Frigessi and M. Piccioni, Importance Sampling for Gibbs Random Fields, *Annals of Applied Probability*, vol. 3, 1993, 914-933
9. A. Frigessi, P. Lansky and A. Mariotto, A Stochastic Model for Neuronal Bursting, *BioSystems*, vol. 33, 1-16, 1994
10. A. Frigessi and J. Stander, Informative Markov Random Field Priors for the Bayesian Classification of Satellite Images, *Journal of the American Statistical Association*, vol. 89, 633-641 1994
11. A. Frigessi and F. den Hollander, A Dynamical Phase Transition in a Caricature of a Spin Glass, *Journal of Statistical Physics*, vol. 75, n.3, 1994, 585-625
12. P. Ferrari, A. Frigessi and P. Gonzaga de Sa', Fast MAP Restoration for Noisy Images, *Journal of the Royal Statistical Society, series B*, vol. 57, 485--500, n.3, 1995
13. A. Frigessi and H. Rue, Bayesian Image Classification with Baddeley's Delta Loss, *Journal of Computational Graphics and Statistics*, vol. 6, n.1, 55-73, 1997
14. A. Frigessi, F. Martinelli and J. Stander, Computational complexity of Markov Chain Monte Carlo methods for finite Markov Random Fields, *Biometrika*, n. 84, 1-18, 1997
15. M. di Zio and A. Frigessi, Smoothness in Bayesian Nonparametric regression with wavelets, *Methodology and Computing in Applied Probability*, vol. 1, 395-409, 1999.
16. A. Biggeri, F. Divino, A. Frigessi, A. Lawson, D. Bohning, E. Lesaffre and J.F. Viel, Introduction to Spatial Models in Ecological Studies, in *Disease Mapping and Risk Assessment for Public Health*, Wiley & Sons, 181-201, 1999.
17. F. Divino, A. Frigessi and P. J. Green, Penalised pseudolikelihood estimation in Markov random field models, *Scandinavian Journal of Statistics*, vol 27, n.3., 445-458, 2000.
18. A. Frigessi, J. Gåsemyr and H. Rue, Antithetic Coupling of two Gibbs Sampler Chains, *Annals of Statistics*, 2000, vol 28, n.4, 1128-1149
19. Ø. Skare, F.E. Benth and A. Frigessi, Smoothed Langevin proposals in Metropolis-Hastings algorithms, *Statistics and Probability Letters*, vol. 49, 345-354, 2000.

20. G. Perminow, A. Rydning, C. D. Jacobsen and A. Frigessi, Gastrointestinale endoskopier av barn, *Tidsskr. Nor. Lægeforen.* 2000, vol. 120, 3503-6. (In Norwegian: Gastrointestinal endoscopy in children)
21. G. Storvik, A. Frigessi and D. Hirst, Space-time Gaussian fields and their time-autoregressive representation, *Statistical Modelling*, 2002, 2, 139-161.
22. X. Dimakos and A. Frigessi, Hierarchical Bayesian Premium Rating with Latent Structure, *Scandinavian Actuarial Journal*, 2002, 3, 162-184.
23. A. Frigessi and N. L. Hjort, Statistical models and methods for discontinuous phenomena, *Journal of Nonparametric Statistics*, 2002, 4, 1-5.
24. A. Frigessi, On some current research in MCMC, in *Highly Structured Stochastic Systems*, Green, Hjort & Richardson eds. Oxford University press, 2003, 1-5.
25. A. Frigessi, O. Haug and H. Rue, A dynamic mixture model for unsupervised tail estimation without threshold selection, *Extremes*, 5 (3), 219 – 236, 2003.
26. K. Heggland and A. Frigessi, Estimating functions in Indirect Inference, *Journal of the Royal Statistical Society, series B*, 66, 447-462, 2004
27. Lina Cekaite, Ola Haug, Ola Myklebost, Magne Aldrin, Bjørn Østenstad, Marit Holden, Arnoldo Frigessi, Eivind Hovig, Mouldy Sioud, Analysis of the humoral immune response to immunoselected phage-displayed peptides by a microarray-based method, *Proteomics*, Vol. 4, n. 9, 2572-2582, 2004.
28. Sæbø, S. and Frigessi A. A Genetic and Spatial Bayesian Analysis of Mastitis Resistance, *Genetics, Selection, Evolution*, vol. 36, n. 5, 527-542, 2004.
29. Engeland K., Hisdal H., Frigessi A., Practical Extreme value Modelling of Hydrological Floods and Droughts: a case study, *Extremes*, 7, 5-30, 2004
30. Arnoldo Frigessi, Clare Marshall, Marit Holden, Hildegunn Viljugrein, Nils Chr. Stenseth, Lars Holden, Vladimir Ageyev and Nikolay L. Klassovskiy, Bayesian population dynamics of interacting species: great gerbils and fleas in Kazakhstan, *Biometrics*. 2005 Mar;61(1):230-8..
31. Kristensen VN, Sorlie T, Geisler J, Yoshimura N, Linegjaerde OC, Glad I, Frigessi A, Harada N, Lonning PE, Borresen-Dale AL., Effects of anastrozole on the intratumoral gene expression in locally advanced breast cancer, *J Steroid Biochem Mol Biol.* 2005 May;95(1-5):105-11.
32. Arnoldo Frigessi, Mark A. van de Wiel, Marit Holden, Debbie H. Svendsrud, Ingrid K. Glad and Heidi Lyng. Genome-wide estimation of transcript concentrations from spotted cDNA microarray data. *Nucleic Acids Research*, 2005, Vol. 33, No. 00 e1–13
doi:10.1093/nar/gni141
33. Ida Scheel, Magne Aldrin, Ingrid K. Glad, Ragnhild Sørsum, Heidi Lyng, Arnoldo Frigessi. The influence of missing value imputation on detection of differentially expressed genes from microarray data. *Bioinformatics* 2005 21(23):4272-4279.
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139. U.S. Provisional Patent Application Serial No. 61/607,316

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Entitled: A GENE SIGNATURE ASSOCIATED WITH EFFICACY OF POSTMASTECTOMY RADIOTHERAPY IN BREAST CANCER

Filed 06-Mar-2012

Provisional Patent number: INVEN-32535/US-1/PRO

The provisional patent application for the gene signature has been filed by Inven2 AS on behalf of Oslo University Hospital and University of Oslo.

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