

# Jelle Goeman

## Education

- 2006 PhD degree in Statistics at Leiden University. Title of thesis: *Statistical methods for Microarray data: pathway analysis, prediction methods and visualization tools*. Supervisors: Prof. Hans van Houwelingen and Prof. Sara van de Geer.
- 2001 Master's degree in Mathematics from Leiden University. Title of thesis: *Using survival to predict survival*. This thesis won the 2002 award for best Master's thesis of the Netherlands Society for Statistics and Operations Research.
- 2001 Master's degree in History (cum laude) from Leiden University. Title of thesis (in Dutch): *Grondslagen van de Vergelijkende Methode* (Foundations of the comparative method)
- 1994 Secondary school diploma at Stedelijk Gymnasium Leiden.

## Professional Experience

- 2016-pres. Full Professor of Biostatistics at Leiden University Medical Center, Department of Medical Statistics and Bioinformatics. Supervision of tenured staff (4 assistant professors) plus PhD students and postdocs (see below).
- 2013-2016 Full Professor of Biostatistics at Radboud University Medical Center, Nijmegen, Department for Health Evidence. Supervision of tenured staff (6 assistant professors and 1 scientific programmer) plus PhD students and postdocs (see below). In 2016 only part-time (5%).
- 2008-2013 Associate Professor at the Leiden University Medical Center, Dept. of Medical Statistics and Bioinformatics. Coordinator of the LUMC Bioinformatics Center of Expertise. Supervision of tenured staff (1 assistant professor and 1 scientific programmer) plus PhD students and postdocs (see below).
- 2007-2008 Assistant Professor at the Leiden University Medical Center, Dept. of Medical Statistics and Bioinformatics. Supervision of PhD students and postdocs (see below).
- 2005-2007 Post-doc researcher at the Leiden University Medical Center, Dept. of Medical Statistics and Bioinformatics
- 2006 Research Associate at Imperial College London, Dept. of Biostatistics. Two month invited visit
- 2001-2005 PhD candidate at Leiden University in a joint project of Leiden University, Mathematical Institute and Leiden University Medical Centre, Dept. of Medical Statistics.
- 1996-2000 Teaching assistant at Leiden University, Mathematical Institute

## Honours and Awards

- 2025 Hans van Houwelingen Award for best Dutch biostatistics paper in the years 2023 and 2024, awarded for paper #161, below (Dutch Biometric Society BMS/ANed)
- 2023 Hans van Houwelingen Award (Honorary Mention) for best Dutch biostatistics paper in the years 2021 and 2022, awarded for paper #153, below (Dutch Biometric Society BMS/ANed)
- 2014 VIDI laureate (NWO/GO)
- 2012 Biometry Award for best Dutch biostatistics paper in the years 2010 and 2011, awarded for paper #21, below (Dutch Biometric Society BMS/ANed)
- 2011 C. J. Kok prize for extraordinary ability in solving mathematical or medical scientific problems (C. J. Kok fund, LUMC).
- 2007 VENI laureate (NWO/ZonMw)
- 2007 Best young researcher's oral presentation at the Channel Network Conference of the International Biometric Society, Kerkrade, The Netherlands.
- 2005 Runner-up for best young researcher's oral presentation at the multi-region meeting of the International Biometric Society, Leicester, U.K.

2002 Award for best Master thesis from the Netherlands Society for Statistics and Operations Research (VVS-OR).

## Funding

2024 NWO ENW-M2 grant (k€ 800) "Flexible and user-adaptive statistical inference". Joint PI with Rianne de Heide

2023 NWO Open Science grant (k€ 50), co-applicant, from the Netherlands Organisation for Scientific Research (NWO). Title of proposal: "Exploring the brain with confidence: developing the ARIBrain-app".

2014 VIDI grant (k€ 800), PI, from the Netherlands Organisation for Scientific Research (NWO/EW). Title of proposal: "Prioritizing with confidence"

2013 Hypatia grant (k€ 800), PI, from Radoudumc. Title of proposal: "Multiple testing".

2012 Research grant (k€ 168), PI, from Glaxo-Smith-Kline, pharmaceutical company. Development of predictive methods in survival analysis based on genomic data.

2009 NBIC 2 grant (k€ 160), Co-PI, jointly with Renée de Menezes (VU Amsterdam). Title of proposal: "Statistical integration of multiple source high-throughput genomics and phenotypic data"

2007 VENI grant (k€ 200) from the Netherlands Organisation for Scientific Research (NWO/ZonMw). Sole PI. Title of proposal: "Gene Ontology based analysis of Gene Expression Data"

2006 NBIC grant (k€ 160), jointly with Lodewyk Wessels (NKI Amsterdam) and Marcel Reinders (TU Delft). Title of proposal: "Developing clinical predictors based on high-dimensional genomics data, pathway information and directed experimentation.". Role as co-PI taken over from Hans van Houwelingen upon his retirement.

## Supervision of PhD students and Postdocs

2025-pres. Aurèle Mingam (PhD student. Funded from ENW-M2 grant. Joint supervision with Rianne de Heide)

2025-pres. Rovanos Tsafack Nzanguim (PhD student. Funded from ENW-M2 grant. Joint supervision with Rianne de Heide)

2025 Margherita Calderan (Postdoc from University of Padua. Self-funded visit of 1 month).

2024-pres. Frank Doornkamp (PhD student. Funded by EU consortium grant 4DPicture. Joint supervision with Ewout Steyerberg).

2024-pres. Lucas Peek (Postdoc. Joint supervision with Wouter Weeda. Funded from NWO Open Science grant).

2024-pres. Yury Tavyrikov (PhD student. Joint supervision with Rianne de Heide. Indirectly funded by Rianne's VENI).

2023 Andrea Bratsberg (PhD student from University of Oslo. Self-funded visit of 3 months. Joint supervision with Magne Thoressen).

2023-pres. Nicole Rogowski (PhD student. Funded by LUMC theme Infection. Joint supervision with Jutte de Vries, Simon Jochems, Eric Snijders).

2023-pres. Chiara Degan (PhD Student. Funded by NIH. Joint supervision with Roula Tsonaka, Pietro Spitali and Bart Mertens).

2022 Riccardo De Santis (PhD student from University of Padua. Self-funded visit of 6 months. Joint supervision with Livio Finos, Padua).

2021-pres. Marije Sluiskes (PhD Student. Joint supervision with Hein Putter and Mar Rodriguez Gironde). Resulting publications: #167, #168.

2021 Menglan Cai (PhD student from Xi'an Jiaotong University. Self-funded visit of 6 months. Joint supervision with Limin Li). Resulting publication: #152.

2020 Anna Vesely (PhD student from University of Padua. Self-funded visit of 6 months. Joint supervision with Livio Finos, Padua). Resulting publication: #156.

2019-pres. Chengyuan Lu (PhD student. Self-funded. Joint supervision with Hein Putter, LUMC). Resulting publication: #153.

- 2019 Angela Andreella (PhD student for University of Padua. Self-funded visit of 5 months. Joint supervision with Livio Finos, Padua, and Wouter Weeda, Leiden). Resulting publication: #158.
- 2019-2020 Xu Chen (Postdoc. Funded from vidi grant. Joint supervision with Wouter Weeda, Leiden University).
- 2017-2018 Bianca Papi (PhD student. Funded by Danone Research. Joint supervision with Saskia le Cessie, LUMC).
- 2016-2019 Diaa al Mohamad (Postdoc. Funded from vidi grant. Joint supervision with Erik van Zwet, LUMC). Resulting publications: #113, #133, #136.
- 2016-pres. Mitra Ebrahimpoor (PhD student. Funded from vidi grant. Joint supervision with Roula Tsonaka, LUMC). Resulting publications: #112, #126, #130.
- 2016-pres. Ningning Xu (PhD student. Funded from vidi grant. Joint supervision with Aldo Solari, Milano-Bicocca). Resulting publications: #132, #146, #171.
- 2015 Lily Tapak (PhD student from University of Hamadan. Self-funded visit of 6 months. Joint supervision with Hein Putter, LUMC).
- 2014-2015 Monika Jelizarow (Postdoc, funded from Hypatia grant. Sole supervision). Resulting publication: #70.
- 2014-2017 Jakub Pecanka (Postdoc, funded from Hypatia and VIDI grants. Sole supervision). Resulting publications: #79, #109.
- 2014-2018 Jesse Hemerik (PhD student, funded from Hypatia grant. Joint supervision with Aldo Solari, University of Milano-Bicocca). Resulting publications: #82, #87, #100, #115, #125.
- 2013-2016 Joanna In't Hout (PhD student and Assistant Professor). Joint supervision with Georges Borm. Resulting publications: #63, #72.
- 2012 Monika Jelizarow (PhD student from University of Munich, Germany. Self-funded visit of 3 months, Sole supervision).
- 2011 Rok Blagus (PhD student from University of Ljubljana, Slovenia. Self-funded visit of 1 month, Sole supervision). Resulting publication: #84.
- 2010-2015 Rosa Meijer (PhD student, indirectly funded by Veni project, Sole supervision). Resulting publications: #38, #56, #60, #68, #98, #103, chapter #1.
- 2010-2014 Nimisha Chaturvedi (PhD student, funded by NBIC 2 project, Joint supervision with Renée de Menezes, VUMC Biostatistics). Resulting publications: #46, #52, #75, #96.
- 2010 Federica Alivernini (Self-funded PhD student from University "La Sapienza", Rome. Visit of 3 months, Sole supervision).
- 2009-2011 Aldo Solari (Self-funded visiting post-doc from University of Padua. Visit of 24 months. Sole supervision). Resulting publications: #16, #17, #21, #22, #33.
- 2008-2009 Livio Finos (postdoc, funded by NBIC project, Sole supervision). Resulting publications: #18, #26.
- 2007-2008 Oksana Korobko (postdoc, funded by NBIC project. Sole supervision).

#### **Publications, journal articles (statistical methodology papers numbered in bold)**

- 194.** M. Ebrahimpoor, R.Menezes, N.Xu, J.J.Goeman. Multiple testing of mix-and-match feature sets in multi-omics. *Statistics in Medicine* (in press).
193. L.van den Hoek, M.Burgmans, T.Tong, J.Goeman, F.Speetjens, S.Zunder, A.van Erkel, R.van der Meer, C.van Rijswijk, J.Lutjeboer, D.Koolhaas, M.Jonker-Bos, I.Roozen, S.Kropff, E.van Persijn van Meerten, R.Zoethout, E.Sitsen, H.Helmerhorst, F.Tijl, C.Blank, E.Kapiteijn. 2025. Combined Percutaneous Hepatic Perfusion with Ipilimumab plus Nivolumab in Metastatic Uveal Melanoma (CHOPIN): a single-centre, open-label, randomised, phase 2 trial. *Lancet Oncology* (in press).
192. H.van Attikum, R.Boonen, S.Knaup, R.Menafra, M.Braspenning, M.Rother, D.Ruano, C.Hu, H.Huang, V.Joseph, M.Conry, S.Heijl, B.Vroling, J.Goeman, M.Varga, M.Richardson, S.Kloet, F.Couch, M.Vreeswijk, P.Kleiblova, M.Janatova, Czezanca cons. 2025. Site-saturation functional screens identify PALB2 missense variants associated with increased breast cancer risk. *Nature Communications* (in press).
191. P.K.Chung, F.A.J.Schornagel, J.Goeman, A.C.T.M.Vossen. 2025. Predicting mid-term hearing and developmental outcome in clinically inapparent congenital cytomegalovirus infection with hearing loss at birth. *Early Human Development* 211, 106412

190. A.Bratsberg, M.Thoressen, J.J.Goeman. 2025. Bad estimation, good prediction: the Lasso in dense regimes. *The American Statistician* (in press).
189. K.Miah, J.J.Goeman, H.Putter, A.Kopp-Schneider, A.Benner. 2025. Variable selection via fused sparse-group lasso penalized multi-state models incorporating molecular data. *Biometrical Journal* (in press).
188. D.Thomassen, T.Hackmann, J.Goeman, E.Steyerberg, S.le Cessie. 2025. Effective sample size of individual risk predictions: quantifying uncertainty in machine learning algorithms. *The Lancet Digital Health* (in press).
187. A.Baktash, C.Harmanus, J.Goeman, W.Brennan, M.Cormican, J.Corver, E.Kuijper, and W.K.Smits. 2025. Increase of *Clostridioides difficile* PCR ribotype 002 infection coincides with decreased disease severity in hospitalized patients in the Netherlands. *Spectrum* (in press).
186. R.De Santis, J.J.Goeman, S.Davenport, J.Hemerik, L.Finos. 2025. Permutation-based multiple testing when fitting many generalized linear models. *Electronic Journal of Statistics* (in press).
185. C.Lu, H.Putter, M.Rodríguez Gironde, J.Goeman. 2025. Model validation for survival analysis by smoothed predictive likelihood. *Statistics in Medicine* (in press).
184. M.H.Sluiskes, H.Putter, P.E.Slagboom, M.Beekman, J.J.Goeman, M.Rodríguez-Gironde. 2025. Penalized reduced rank regression for multi-outcome survival data supports a common metabolic risk score for age-related diseases. *Statistics in Medicine* (in press).
183. J.M.Kersten, K.D.Quint, R.Willemze, J.J.Goeman, M.H.Vermeer, R.Ottevanger. 2025. Prognosis of increasing percentages of lesional body surface area in early stage mycosis fungoides. *Journal of the European Academy of Dermatology and Venereology* (in press).
182. N.El Moussaoui, E.van Andel, M.van der Beek, J.Vlot, M.Bilsen, C.van Nieuwkoop, F.Lauw, N.Delfos, J.Stalenhoef, M.Sijbom, A.Akintola, W.Achterberg, J.Goeman, E.Leyten, J.van Uhm, P.Corstjens, S.Mooijaart, S.Conroy, C.Cobbaert, L.Visser, M.Lambregts. 2025. Validation of urinary biomarkers for accurate diagnosis of urinary tract infections in older adults across primary care, hospitals, and long-term care facilities in the Netherlands and United Kingdom (UTI-GOLD): A multicenter observational study protocol. *BMJ Open* (in press).
181. M.H.Sluiskes, E.A.S.Koster, J.J.Goeman, M.Rodríguez-Gironde, H.Putter, L.C.de Wreede. 2025. A new framework for disentangling different components of excess mortality applied to Dutch care home residents during Covid-19. *BMC Medical Research Methodology* (in press).
180. R.De Santis, J.J.Goeman, J.Hemerik, S.Davenport, L.Finos. 2025. Inference in generalized linear models with robustness to misspecified variances. *Journal of the American Statistical Association* (in press).
179. S.El Emrani, E.J.S.Jansen, J.J.Goeman, J.U.M.Termote, E.Lopriore, N.E.Schalij-Delfos, L.E.van der Meeren. 2025. Comprehensive assessment of placental inflammation: Novel approach in predicting retinopathy of prematurity. *Early Human Development* 204, 106239.
178. S.C.Vaz, C.L.S.Corion, J.Goeman, A.M.Zeillemaker, R.Hezemans, L.F.de Geus-Oei, L.M.Pereira Arias-Bouda. 2025. Can molecular breast imaging with Tc-99m sestamibi safely rule out malignancy in pathologic nipple discharge? *Clinical Nuclear Medicine* (in press).
177. A.Andreella, J.Goeman, J.Hemerik, L.Finos. 2024. Robust Inference for Generalized Linear Mixed Models: A "Two-Stage Summary Statistics" Approach Based on Score Sign Flipping. *Psychometrika* (in press).
176. F.Kleiburg, L.F.de Geus-Oei, S.A.C.Luelmo, R.Spijkerman, J.J.Goeman, F.A.J.Toonen, F.Smit, T.van der Hulle, L.Heijmen. 2024. PSMA PET/CT for treatment response evaluation at predefined time points is superior to PSA response for predicting survival in metastatic castration-resistant prostate cancer patients. *European Journal of Radiology* (in press).
175. R.Ottevanger, E.Vermaas, R.Willemze, A.Schrader, P.M.Jansen, J.J.Goeman, H.Putter, M.H.Vermeer, K.D.Quint. 2024. Mycosis fungoides and associated malignancies in a Dutch nationwide retrospective cohort study: Mycosis fungoides and associated malignancies. *Acta Dermato-Venereologica* (in press).
174. S.El Emrani, E.Jansen, J.Goeman, J.Termote, E.Lopriore, N.Schalij-Delfos, L.van der Meeren. 2024. Enhancing the ROP risk profile through placental evaluation of maternal and fetal vascular malperfusion. *Investigative Ophthalmology & Visual Science* (in press).

173. S.El Emrani, E.J.S.Jansen, J.J.Goeman, J.U.M.Termote, L.E.van der Meeren, E.Lopriore, N.E.Schalij-Delfos. 2024. Early-onset sepsis as an early predictor for retinopathy of prematurity: a meta-analysis. *American Journal of Perinatology* (in press).
172. A.Andreella, A.Vesely, W.Weeda, J.Goeman. 2024. Selective inference for fMRI cluster-wise analysis, issues, and recommendations for critical vector selection: A comment on Blain et al. *Imaging Neuroscience* (in press).
171. N.Xu, A.Solari, J.Goeman. 2024. Combining partial true discovery guarantee procedures. *Biometrical Journal* 66 (5) e202300075.
170. J.Hemerik, A.Solari, J.J.Goeman. 2024. Flexible control of the median of the false discovery proportion. *Biometrika* (in press).
169. N.Marsidi, R.Ottevanger, Y.E.Demir, S.van Beugen, J.J.Goeman, R.E.Genders. 2025. Patient Reported Outcomes Measurements in Facial Skin Surgery and a Comparison between Mohs Micrographic Surgery and Conventional Excisions. *Journal of the European Academy of Dermatology and Venereology* 39 (3) 680-687.
168. M.H.Sluiskes, J.J.Goeman, H.Putter, M.Beekman, P.E.Slagboom, E.B.van den Akker, M.Rodríguez-Girondo. 2024. The AccelerAge framework: A new statistical approach to predict biological age based on time-to-event data. *European Journal of Epidemiology* (in press).
167. M.H.Sluiskes, J.J.Goeman, M.Beekman, P.E.Slagboom, H.Putter, M.Rodríguez-Girondo. 2024. Clarifying the biological and statistical assumptions of cross-sectional biological age predictors: An elaborate illustration using synthetic and real data. *BMC Medical Research Methodology* (in press).
166. J.Li, M.Maathuis, J.J.Goeman. 2024. Simultaneous false discovery proportion bounds via knockoffs and closed testing. *Journal of the Royal Statistical Society, Series B* (in press).
165. J.J.Goeman, A.Solari. 2024. On Selecting and Conditioning in Multiple Testing and Selective Inference. *Biometrika* (in press).
164. S.El Emrani, E.J.S.Jansen, J.J.Goeman, J.U.M.Termote, L.E.van der Meeren, E.Lopriore, N.E.Schalij-Delfos. 2024. Histological chorioamnionitis and funisitis as new risk factors for retinopathy of prematurity: a meta-analysis. *American Journal of Perinatology* (in press).
163. E.de Jong, K.D.Quint, A.El Ghalbzouri, R.M.Verdijk, J.J.Goeman, S.Heidt, F.H.J.Claas, J.W.de Fijter, R.E.Genders, M.H.Vermeer, J.N.Bouwes Bavinck. 2023. HLA expression as a risk factor for metastases of cutaneous squamous-cell carcinoma in organ- transplant recipients. *Human Immunology* 84 (3) 208-213.
162. M.Y.Kapteijn, V.R.Lanting, F.H.J.Kapteijn, N.A.M.Guman, E.H.Laghmani, T.B.Kuipers, H.Mei, J.J.Goeman, F.I.Mulder, S.G.van Duinen, M.J.B.Taphoorn, L.Dirven, M.L.D.Broekman, N.van Es, F.A.Klok, J.A.F.Koekkoek, H.H.Versteeg, J.T.Buijs. 2023. RNA-sequencing to discover genes and signaling pathways associated with venous thromboembolism in glioblastoma patients: a case-control study. *Thrombosis Research* 232, 27-34
161. J.J.Goeman, P.Górecki, R.Monajemi, X.Chen, T.E.Nichols, W.D.Weeda. 2023. Cluster extent inference revisited: quantification and localization of brain activity. *Journal of the Royal Statistical Society, Series B* 85 (4) 1128-1153.
160. W.A.Noortman, N.Aide, D.Vriens, L.S.Arkes, C.H.Slump, R.Boellaard, J.J.Goeman, C.M.Deroose, J.P.Machiels, L.F.Licitra, R.Lhommel, A.Alessi, E.Woff, K.Goffin, C.Le Tourneau, J.Gal, S.Temam, J.P.Delord, F.H.P.Van Velden, L.F.De Geus-Oei. 2023. Development and external validation of a PET radiomic model for prognostication of head and neck cancer. *Cancers* 15 (10) 2681.
159. H.Dang, M.Pack, K.Kaestner, T.J.Harryvan, C.Liao, E.H.J.Danen, V.N.L.N.Spalburg, S.M.Kielbasa, H.Mei, J.J.Goeman, E.S.de Jonge-Muller, S.G.T.Janson, J.J.van der Reijden, S.Crobach, J.C.H.Hardwick, J.J.Boonstra, N.F.C.C.de Miranda, L.J.A.C.Hawinkels. 2023. Cancer-associated fibroblasts are key determinants of cancer cell invasion in the earliest stage of colorectal cancer. *Cellular and Molecular Gastroenterology and Hepatology* 16 (1) 107-131
158. A.Andreella, J.Hemerik, L.Finos, W.Weeda, J.Goeman. 2023. Permutation-based true discovery proportions for functional Magnetic Resonance Imaging cluster analysis. *Statistics in Medicine* 42 (14) 2311-2340.
157. K.B.Kluyvers, S.L.Lince, A.M.Ruiz-Zapata, W.M.Post, R.Cartwright, M.H.Kerkhof, J.Widomska, W.De Witte, J.Pecanka, L.A.Kiemeneij, S.H.Vermeulen, J.J.Goeman, K.Allen-Brady, E.Oosterwijk, G.Poelmans. 2023. Molecular landscape of pelvic organ prolapse provides insights into disease etiology. *International Journal of Molecular Sciences* 24 (7) 6087.

156. A.Vesely, L.Finos, J.J.Goeman. 2023. Permutation-based true discovery guarantee by sum tests. *Journal of the Royal Statistical Society, Series B* 85 (3) 664–683.
155. N.Marsidi, K.M.J.Scheepens, J.J.Goeman, T.Horemans, R.E.Genders. 2023. Dynamic characteristics of skin reaction force in different body postures. *Scientific Reports* 13: 2222.
154. G.L.J.Onderwater, R.M.van Dongen, A.C.Harms, R.Zielman, W.P.J.van Oosterhout, J.B.van Klinken, J.J.Goeman, G.M.Terwindt, A.M.J.M.van den Maagdenberg, T.Hankemeier, M.D.Ferrari. 2023. Cerebrospinal fluid and plasma amine profiles in interictal migraine. *Annals of Neurology* 93 (4) 715-728.
153. C.Lu, J.J.Goeman, H.Putter. 2023. Maximum likelihood estimation in the additive hazards model. *Biometrics* 79 (3) 1646–1656.
152. J.Tian, X.Chen, E.Katsevich, J.Goeman, A.Ramdas. 2023. Large-scale simultaneous inference under dependence. *Scandinavian journal of Statistics* 50 (2) 750-796.
151. N.Xu, A.Solari, J.J.Goeman, 2023. Closed testing with Globaltest, with application in metabolomics. *Biometrics* 79 (2) 1103-1113.
150. M.Cai, A.Vesely, X.Chen, L.Li, J.Goeman. 2022. NetTDP: Permutation-Based True Discovery Proportions for Differential Co-expression Network Analysis. *Briefings in Bioinformatics* 23 (6) bbac417.
149. K.T.S.Aiyer, T.Doeleman, N.Ryan, M.Nielsen, E.J.Crosbie, V.T.H.B.M.Smit, H.Morraeu, J.J.Goeman, T.Bosse. 2022. Validity of a two-antibody testing-algorithm for mismatch repair deficiency testing in cancer; a systematic literature review and meta-analysis. *Modern Pathology* 35, 1775–1783.
148. T.M.L.Tong, M.Samim, E.Kapiteijn, T.S.Meijer, F.M.Speetjens, R.Bruning, T.H.Schroeder, S.El-Sanosi, H.Maschke, F.K.Wacker, A.Vogel, C.L.A.Dewald, J.J.Goeman, M.C.Burgmans. 2022. Predictive parameters in patients undergoing percutaneous hepatic perfusion with melphalan for unresectable liver metastases from uveal melanoma: a retrospective pooled analysis. *CardioVascular and Interventional Radiology* 45, 1304–1313.
147. Q.R.Ducarmon, W.K.Smits, J.J.Goeman, E.J.Kuijper. 2022 The importance of multiple hypothesis testing in microbiome-wide association studies. *Lancet Microbe* 3 (10) E731.
146. K.E.W.Vendrik, A.Baktash, J.J.Goeman, C.Harmanus, D.W.Notermans, S.C.de Greeff, E.J.Kuijper. 2022. Comparison of trends in *Clostridioides difficile* infections in hospitalised patients during the first and second waves of the COVID-19 pandemic: A retrospective sentinel surveillance study. *The Lancet Regional Health – Europe* 19, 10042.
145. K.E.W.Vendrik, A.de Haan, S.Witteveen, A.P.A.Hendrickx, D.W.Notermans, P.Bijkerk, A.F.Schoffelen, S.C.de Greeff, C.C.H.Wielders, J.J.Goeman, E.J.Kuijper, L.M.Schouls, ColRE survey consortium. 2022. Genomic epidemiology of colistin-resistant Enterobacterales from Dutch patients: a prospective matched case-control study. *Communications Medicine* 2, article 55.
144. N.Marsidi, R.Ottevanger, J.N.Bouwes Bavinck, N.M.A.Krekel-Taminiau, J.J.Goeman, R.E.Genders. 2022. Risk factors for incomplete excision of cutaneous squamous cell carcinoma: a large cohort study. *Journal of the European Academy of Dermatology and Venereology* 36 (8) 1229-1234.
143. T.T.M.Oosterveer, P.Hendriks, A.Broersen, C.G.Overduin, C.S.P.van Rijswijk, A.R.van Erkel, R.W.van der Meer, M.E.Tushuizen, A.Moelker, M.R.Meijerink, O.M.van Delden, K.P.de Jong, C.van der Leij, M.L.J. Smits, T.A.J.Urlings, J.P.B.M.Braak, E.Meershoek-Klein Kranenburg, B.van Duijn-deVreugd, E.Zeijdner, J.J.Goeman, J.J.Fütterer, M.J.Coenraad, J.Dijkstra, M.C.Burgmans, The Dutch Hepatocellular and Cholangiocarcinoma Group. 2022. Study Protocol PROMETHEUS: PROspective Multicenter study to Evaluate the correlation between safety margin and local recurrence after THERmal ablation USING image co-registration in patients with hepatocellular carcinoma. *Cardiovascular and Interventional Radiology* 45, 606–612.
142. J.J.Goeman, A.Solari. 2022. Comparing three groups. *The American Statistician* 76(2) 168–176.
141. G.Holswilder, M.P.M.E.Stuart, T.Dompeling, N.D.Kruyt, J.J.Goeman, A.van der Lugt, W.J.Schonewille, G.J.Lycklama à Nijeholt, C.B.L.M.Majoie, L.S.F.Yo, F.J.A.Meijer, H.A.Marquering, M.J.H.Wermer, M.A.A.van Walderveen. 2022. The prognostic value of extracranial vascular characteristics on procedural duration and revascularization success in endovascularly treated acute ischemic stroke patients. *European Stroke Journal* 7 (1) 48-56.
140. J.J.M.Westenberg, H.C.van Assen, P.J.van den Boogaard, J.J.Goeman, H.Saaid, J.Voorneveld, J.Bosch, S.Kenjeres, T.Claessens, P.Garg, M.Kouwenhoven, H.J.Lamb. 2022. Echo Planar

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59. I.J.Goossens-Beumer, R.S.Derr, H.P.J.Buermans, J.J.Goeman, S.Böhringer, H.M.Morreau, U.Nitsche, K.P.Janssen, C.J.H.van de Velde, P.J.K.Kuppen. 2015. MicroRNA classifier and nomogram for metastasis prediction in colon cancer. *Cancer Epidemiology, Biomarkers & Prevention* 24 (1) 187–97.
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56. R.J.Meijer, J.J.Goeman. 2015. A multiple testing method for hypotheses structured in a Directed Acyclic Graph. *Biometrical Journal* 57 (1) 123-147.
55. A.Solari, L.Finos, J.J.Goeman. 2014. Rotation-based multiple testing in the multivariate linear model. *Biometrics* 70 (4) 954-961.

54. E.Tobi, J.J.Goeman, R.Monajemi, H.Gu, H.Putter, Y.Zhang, R.C.Slieker, A.P.Stok, P.Thijssen, F.Müller, E.van Zwet, C.Bock, A.Meissner, L.H.Lumey, E.Slagboom. 2014. DNA methylation signatures link prenatal famine exposure to growth and metabolism. *Nature Communications* 5:5592.
53. Y.F.M.Ramos, W.den Hollander, J.V.M.G.Bovée, N.Bomer, R.van der Breggen, N.Lakenberg, J.C.Keurentjes, J.J.Goeman, P.E.Slagboom, R.G.H.H.Nelissen, S.D.Bos, I.Meulenbelt. 2014. Genes involved in the osteoarthritis process identified through genome wide expression analysis in articular cartilage; the RAAK study. *PLoS One* 9 (7) e103056.
52. N.Chaturvedi, J.J.Goeman, J.M. Boer, W.N.van Wieringen and R.X.de Menezes. 2014. A test for comparing two groups of samples when analyzing multiple omics profiles. *BMC Bioinformatics* 15:236 .
51. L.Gao, K.van den Hurk, P.T.M.Moerkerk, J. J.Goeman, S.Beck, N.A.Gruis, J.J.van den Oord, V.J.Winnepenninckx, M.van Engeland, R.van Doorn. 2014. Promoter CpG island hypermethylation in dysplastic naevus and melanoma: CLDN11 as an epigenetic biomarker for malignancy. *Journal of Investigative Dermatology* 134: 2957–2966.
50. E.B.van den Akker, W.M.Passtoors, R.Jansen, E.W.van Zwet, J.J.Goeman, M.Hulsman, V.Emilsson, M.Perola, A.H.M.Willemsen, B.W.J.H.Penninx, B.T. Heijmans, A.B.Maier, D.I.Boomsma, J.N.Kok, P.E.Slagboom, M.J.T.Reinders, M.Beekman. 2014. Meta-Analysis on Blood Transcriptomic Studies Identifies Consistently Co-Expressed PPI Modules as Robust Markers of Human Ageing. *Aging Cell* 13 (2) 216-225.
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48. R.Bokenkamp, R.van Brempt, J.C.van Munsteren, I.van den Wijngaert, R.de Hoogt; L.Finos, J.J.Goeman, A.C.Gittenberger-de Groot, R.E.Poelmann, N.A.Blom, M.C.de Ruiter. 2014. Dlx1 and Rgs5 in the Ductus Arteriosus: Vessel-specific Genes Identified by Transcriptional Profiling of Laser-capture Microdissected Endothelial and Smooth Muscle Cells. *PLoS One* 9(1):e86892.
47. J.J.Goeman, A.Solari. 2014. Multiple hypothesis testing in genomics. *Statistics in Medicine* 33 (11) 1946-1978.
46. N.Chaturvedi, R.X.de Menezes and J.J.Goeman. 2014. A fused lasso algorithm for Cox and generalized linear models with application to copy number profiles. *Biometrical Journal* 56 (3) 477-492.
45. M.Gheorghe, M.Snoeck, M.Emmerich, T.Bäck, J.J.Goeman, V.Raz. 2014. Molecular changes during human aging occur at two major age-positions. *BMC Genomics* 15: 132.
44. R.C.Slieker, S.D.Bos, J.J.Goeman, J.V.M.G.Bovée, R.P.Talens, R.van der Breggen, H.E.D.Suchiman, E.W.Lameijer, H.Putter, E.B.van den Akker, Y.Zhang, W.Jukema, E.Slagboom, I.Meulenbelt and B.T.Heijmans 2013. Identification and systematic annotation of tissue-specific differentially methylated regions using Illumina 450k chips. *Epigenetics & Chromatin* 6:26.
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42. C.Lauber, J.J.Goeman, M.del Carmen Parquet, P.T.Nga, E.J.Snijder, K.Morita, and A.E.Gorbalenya. 2013. The footprint of genome architecture in the largest genome expansion in RNA viruses. *PLoS Pathogens* 9(7): e1003500.
41. S.A.H.M.van den Tillaart, W.E.Corver, D.Runao Neto, N.T.ter Haar, J.J.Goeman, J.B.M.Z.Trimbos, G.J.Fleuren, J.Oosting. 2013. Loss of heterozygosity and copy number alterations in flow-sorted bulky cervical cancer. *PLoS One* 8(7): e67414.
40. L.Gao, M.A.Smit, J.J.van den Oord, J.J.Goeman, E.M.E.Verdegaal, S.H.van der Burg, M.Stas, S.Beck, N.A.Gruis, C.P.Tensen, R.Willemze, D.S.Peeper, R.van Doorn. 2013. Genome-wide promoter methylation analysis identifies epigenetic silencing of MAPK13 in primary cutaneous melanoma. *Pigment Cell & Melanoma Research* 26 (4) 542–554.
39. K.M.Hettne, A.Boorsma, D.A.M.van Dartel, J.J.Goeman, E.de Jong, A.H.Piersma, R.H.Stierum, J.C.Kleinjans and J.A.Kors. 2013. Next-generation text-mining mediated generation of chemical response-specific gene sets for interpretation of gene expression data. *BMC Medical Genomics* 6:2.
38. R.J.Meijer and J.J.Goeman. 2013. Efficient approximate k-fold and leave-one-out cross-validation for ridge regression. *Biometrical Journal* 55 (2) 141–155.

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32. E.de Klerk, A.Venema, S.Y.Anvar, J.J.Goeman, O.Hu, J.T.den Dunnen, S.M.van der Maarel, V.Raz, P.A. C. 't Hoen. 2012. Poly(A) binding protein nuclear 1 levels affect alternative polyadenylation. *Nucleic Acids Research* 40 (18) 9089-9101.
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30. S.Osanto, Y.Qin, H.P.Buermans, J.Berkers, E.Lerut, J.J.Goeman, and H.van Poppel. 2012. Genome-wide microRNA expression analysis of clear cell Renal Cell Carcinoma by next generation deep sequencing. *PLoS One* 7 (6) e38298.
29. A.E.A.Dahm, A.L.Eilertsen, J.J.Goeman, O.K.Olstad, R.Øvstebø, P.Kierulf, M.C.Mowinckel, G.Skretting, and P.M.Sandset. 2012. A microarray study on the effect of four hormone therapy regimens on gene transcription in whole blood from healthy postmenopausal women. *Thrombosis Research* 130 (1) 45–51.
- 28.** M.van Iterson, H.H.H.B.M.van Haagen, and J.J.Goeman. 2012. Resolving confusion of tongues in statistics and machine learning: a primer for biologists and bioinformaticians. *Proteomics* 12 (4-5) 543–549.
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- 26.** J.J.Goeman, and L.Finos. 2012. The inheritance procedure: multiple testing of tree-structured hypotheses. *Statistical Applications in Genetics and Molecular Biology* 11 (1), 1-18.
25. W.M.Passtoors, J.M.Boer, J.J.Goeman, E.B.van den Akker, J.Deelen, B.J.Zwaan, A.Scarborough, R.van der Breggen, R.H.A.M.Vossen, J.J.Houwing-Duistermaat, G.J.B.van Ommen, R.G.J.Westendorp, D.van Heemst, A.J.M.de Craen, A.J.White, D.A.Gunn, M.Beekman, and P.E.Slagboom. 2012. A transcription profile marks human familial longevity and includes ASF1A and IL7R. *PLOS One* 7(1) e27759.
24. N.A.Datson, N.Speksnijder, J.L.Mayer, P.J.Steenbergen, O.Korobko, J.J.Goeman, E.R.de Kloet, M.Joëls, and P.J.Lucassen. 2012. The transcriptional response to chronic stress and glucocorticoid receptor blockade in the hippocampal dentate gyrus. *Hippocampus* 22 (2) 359-371.
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- 22.** J.J.Goeman, and A.Solari. 2011. Rejoinder. *Statistical Science* 26 (4) 608–612.
- 21.** J.J.Goeman, and A.Solari. 2011. Multiple testing for exploratory research. *Statistical Science* 26 (4) 584–597.
- 20.** R.Jelier, J.J.Goeman, K.M.Hettne, M.J.Schuemie, J.T.den Dunnen, and P.A.C.'t Hoen. 2011. Literature-aided interpretation of gene expression data with the weighted global test. *Briefings in Bioinformatics* 12 (5) 518-529.

19. R.L.Miclea, M.Siebelt, L.Finos, J.J.Goeman, C.W.G.M.Löwik, W.Oostdijk, H.Weinans, J.M.Wit, E.C.Robanus-Maandag, and M.Karperien. 2011. Inhibition of Gsk3 $\beta$  in cartilage induces osteoarthritic features through activation of the canonical Wnt signaling pathway. *Osteoarthritis and Cartilage* 19 (11) 1363-1372.
18. J.J.Goeman, H.C.Van Houwelingen, and L.Finos. 2011. Testing against a high-dimensional alternative in generalized linear models: asymptotic type I error control. *Biometrika* 98 (2) 381-390.
17. J.J.Goeman, and A.Solari. 2010. The sequential rejection principle of familywise error control. *Annals of Statistics* 38 (6) 3782-3810.
16. J.J.Goeman, A.Solari, and T.Stijnen. 2010. Three-sided hypothesis testing: simultaneous testing of superiority, equivalence and inferiority. *Statistics in Medicine* 29 (20) 2117-2125.
15. J.J.Goeman. 2010. L1 penalized estimation in the Cox proportional hazards model. *Biometrical Journal* 52 (1) 70-84.
14. F.E.Alkemade, P.van Vliet, P. Henneman, K.W.van Dijk, B.P.Hierck, J.C.van Munsteren, J.A.Scheerman, J.J.Goeman, L.M.Havekes, A.C.Gittenberger-de Groot, P.J.van den Elsen, and M.C.de Ruiter. 2010. Prenatal exposure to apoE deficiency and postnatal hypercholesterolemia are associated with altered cell-specific lysine methyltransferase and histone methylation patterns in the vasculature. *American Journal of Pathology* 76 (2) 542-548.
13. A.A.Out, I.J.H.M.van Minderhout, J.J.Goeman, Y.Ariyurek, S.Ossowski, K.Schneeberger, D.Weigel, M.van Galen, P.E.M.Taschner, C.M.J.Tops, M.H.Breuning, G.J.B.van Ommen, J.T.den Dunnen, P.Devilee, and F.J.Hes. 2009. Deep sequencing to reveal new variants in pooled DNA samples. *Human Mutation* 30 (12) 1703 -1712.
12. E.F.Hensen, J.J.Goeman, J.Oosting, A.G.L.Van der Mey, P.C.W.Hogendoorn, C.W.R.J.Cremers, P.Devilee and C.J.Cornelisse. 2009. Similar gene expression profiles of sporadic, PGL2-, and SDHD-linked paragangliomas suggest a common pathway to tumorigenesis. *BMC Medical Genomics* 2 article 25.
11. E.F.Hensen, M.J.De Herdt, J.J.Goeman, J.Oosting, V.T.H.B.M.Smit, C.J.Cornelisse and R.J.Baatenburg de Jong. 2008. Gene-expression of metastasized versus non-metastasized primary head and neck squamous cell carcinomas: a pathway-based analysis. *BMC Cancer* 8 article 168.
10. J.J.Goeman. 2008. Autocorrelated logistic ridge regression for classification based on proteomics spectra. *Statistical Applications in Genetics and Molecular Biology*, 7 (2) article 10.
9. J.J.Goeman and U.Mansmann. 2008. Multiple testing on the directed acyclic graph of Gene Ontology. *Bioinformatics* 24 (4) 537--544.
8. R.Janssen, L.Bont, C.L.E.Siezen, H.M.Hodemaekers, M.J.Ermers, G.Doorbos, R.van 't Slot, C.Wijmenga, J.J.Goeman, J.L.L.Kimpen, H.C.van Houwelingen, T.G.Kimman, and B.Hoebee. 2007. Genetic susceptibility to RSV bronchiolitis is predominantly associated with innate immune genes. *Journal of Infectious Diseases* 196 (6) 826-834.
7. J.J.Goeman and P.Bühlmann. 2007. Analyzing gene expression data in terms of gene sets: methodological issues. *Bioinformatics*, 23 (8) 980-987.
6. J.J.Goeman, and S.le Cessie. 2006. A goodness-of-fit test for multinomial logistic regression. *Biometrics*, 62 (4) 980-985.
5. J.J.Goeman, S.A.van de Geer and J.C.van Houwelingen. 2006. Testing against a high-dimensional alternative. *Journal of the Royal Statistical Society, Series B*, 68 (3) 477-493.
4. J.J.Goeman, J.Oosting, A.Cleton-Jansen, J.K.Anninga, and J.C.van Houwelingen. 2005. Testing association of a pathway with survival using gene expression data. *Bioinformatics*, 21 (9) 1950-1957.
3. P.H.C.Eilers and J.J.Goeman. 2004. Enhancing scatterplots with smoothed densities. *Bioinformatics*, 20 (5) 623-628.
2. J.J.Goeman, S.Le Cessie, R.J.Baatenburg de Jong and S.A.van de Geer. 2004. Predicting survival using disease history: a model combining relative survival and frailty. *Statistica Neerlandica*, 58 (1) 21-34.
1. J.J.Goeman, S.A.van de Geer, F.de Kort and J.C.van Houwelingen. 2004. A global test for groups of genes: testing association with a clinical outcome. *Bioinformatics*, 20 (1) 93-99.

## Publications, book chapters

3. A.Solari, J.J.Goeman, 2020. 'Exploratory inference: localizing relevant effects with confidence' in: X.Cui, T.Dickhaus, Y.Ding, J.C.Hsu (ed.) *Handbook of Multiple Comparisons* (in press).
2. J.J.Goeman. 2016. Randomness and the games of science. in: N.P. Landsman and E. van Wolde (ed.) *The Challenge of Chance*. Springer, 91-109.
1. R.J.Meijer, J.J.Goeman. 2013. Model selection for high-dimensional models. in: H.C. van Houwelingen, J.Ibrahim, J.Klein, T.Scheike (ed.). *Handbook of Statistics-Survival Analysis*. Chapman & Hall, 301-320 .

### Publications, national

3. J.J.Goeman, 2017. De zoekende onderzoeker. Inaugural lecture. Leiden University
2. J.J.Goeman, 2014. Toevalstreffers. Inaugural lecture. Radboud University.
1. J.J.Goeman, 2002. Overleving met meerdere tumoren. *STATOR* 3 (4) 28-29.

### Citations

(counts of papers with stated number citations; first or last author papers only; from Scholar)

>= 1000	4
500-999	0
200-499	7
100-199	4
50-99	9
20-49	11
10-19	10

### Software Packages (first author)

globaltest	Open source R package for testing association of genetic pathways with a patient-level response. Peer reviewed. <a href="http://www.bioconductor.org">www.bioconductor.org</a>
penalized	Open source R package for L1 and L2 penalized regression in generalized linear models and in the Cox model. <a href="http://cran.r-project.org">cran.r-project.org</a> .
cherry	Open source R package for multiple testing for exploratory research based on closed testing. <a href="http://cran.r-project.org">cran.r-project.org</a> .
hommel	Open source R package for closed testing with Simes local tests. <a href="http://cran.r-project.org">cran.r-project.org</a> .

### Theses

2006	<i>Statistical Methods for Microarray Data: pathway analysis, prediction methods and visualization tools</i> . PhD thesis. Leiden University.
2001	<i>Using Survival to Predict Survival</i> . Master's thesis in Mathematics. Leiden University. Winner of the thesis award of the Netherlands Society for Statistics and Operations Research (VVS-OR).
2001	<i>Grondslagen van de Vergelijkende Methode</i> . Master's thesis in History. Leiden University.

### Invited International Visits and Invited Seminars (international)

2022	University of Oxford. Big Data Institute, Neuroimaging group.
2022	University of Cambridge. Statistical Laboratory.
2021	University of Padua. Faculty of Statistics.
2021	University of Padua. Faculty of Psychology.
2021	DKFZ Heidelberg. Biostatistics.
2021	International Seminar on Selective Inference. Online.
2020	Florida State University. Dept. of Statistics.
2020	University of Oxford. Neuroimaging Statistics Oxford.

2019	University of Trondheim. Department of Mathematical Sciences.
2018	University of Padua. Faculty of Statistics
2016	University of Bremen. Dept. of Mathematics.
2015	University of Uppsala. Dept. of Statistics.
2015	Tel Aviv University. Dept. of Statistics and Operations Research.
2015	DKFZ Heidelberg. Department of Biostatistics.
2014	Cambridge University. Statistical Laboratory.
2014	University of Liege. GIGA.
2014	University of Essex. Department of Mathematics.
2011	University of Padua. Faculty of Statistics.
2011	University "La Sapienza" Rome. Department of Statistical Science.
2010	University of Copenhagen. Department of Biostatistics.
2009	ETH Zürich. Department of Statistics.
2009	Prince Felipe Research Center, Valencia. Department of Bioinformatics and Genomics.
2008	TU Dortmund. Department of Statistics.
2008	Iowa State University. Department of Statistics.
2008	University of Münster. Department of Medical Statistics.
2006	University of Gent. Center of Statistics.
2006	University of Lancaster. Department of Statistics.
2006	Catholic University of Louvain-la-Neuve. Department of Political and Social Sciences.
2006	University of Munich. Institute of Medical Informatics Biometrics and Epidemiology.
2006	University of Hasselt. Censtat.
2005	ETH Zürich. Department of Statistics.
2004	German Cancer Research Center, Heidelberg. Department of Biostatistics.

#### **Invited Seminars (national, excluding local)**

2022	BMS/ANed seminar
2020	Erasmus MC Epidemiology, Rotterdam
2018	Donders Institute, Nijmegen
2016	RIVM Bilthoven.
2015	University Medical Center Maastricht, Methodology and Statistics.
2010	Delft University of Technology. Stochastics Colloquium.
2009	Free University, Amsterdam. Statistics for Life Sciences.
2009	Erasmus Medical Center, Rotterdam. Department of Biostatistics.
2007	Erasmus Medical Center, Rotterdam. Dept. of Pathology.
2005	EURANDOM, Eindhoven.
2004	Netherlands Cancer Institute. Amsterdam. Department of Pathology.

#### **Invited Presentations at International Conferences and Workshops.**

61. Conditional Versus Unconditional Approaches to Selective Inference. Bernoulli-IMS Conference, Bochum, Germany. August 2024.
60. Cluster Extent Inference revisited. Neuroimaging Statistics 2023. Montreal, Canada. August 2023.
59. All-Resolutions Inference: adaptively choosing the scale of your analysis. Journées de la Statistique. Brussels. July 2023.
58. Science as a two-player game played solitaire. SAVI workshop. Eindhoven. June 2022.
57. All-Resolutions Inference. Belgian Statistical Society Meeting. Liege, Belgium. October 2021.
56. Comparing three groups. IBS Italian region conference. Online. September 2021.
55. Closed Testing for Selective Inference. Multiple Comparisons Conference. Online. August 2021.
54. Only Closed Testing Procedures are Admissible for Controlling False Discovery Proportions. Joint Statistical Meetings. Online. August 2021.
53. Only Closed Testing Procedures are Admissible for Controlling False Discovery Proportions. ICSA International Conference. Hangzhou, China. 20 December 2019.

52. Only Closed Testing Procedures are Admissible for Controlling False Discovery Proportions. Multiple Comparisons Conference. Taipei. 15 December 2019.
51. Closed testing and admissibility of procedures controlling false discovery proportions. Joint Statistical Meetings. Denver, U.S.A. 30 July 2019.
50. Only Closed Testing Procedures are Admissible for Controlling False Discovery Proportions. IBS Eastern Mediterranean. Jerusalem. 19-12-2018.
49. Simultaneous Control of All False Discovery Proportions in Large-Scale Multiple Hypothesis Testing. Workshop Uncertainty Quantification in Complex, Nonparametric Statistical Models. Leiden. 18 April 2018.
48. All-Resolutions Inference: Consistent confidence bounds for the false discovery proportion in high-dimensional data. Workshop Post-Selection Inference and Multiple Testing. Toulouse, France. 2 February 2018.
47. All-Resolutions Inference: Consistent confidence bounds for the false discovery proportion in high-dimensional data. CMStatistics. London. 16 December 2017.
46. New directions in multiple testing of biomarkers: flexible approaches with rigorous control. Statistical Methods in Biopharmacy. Paris. 15 September 2017.
45. What (not) to expect when classifying rare events. CEN-ISBS conference. Vienna. 31 August 2017.
44. Minimal Adequate Models: Assessing Uncertainty in Variable Selection. International Workshop on Statistical Modelling. Groningen. 5 July 2017.
43. Multiple testing for non-exchangeable hypotheses. COSTNET conference. Ribno, Slovenia. 22 September 2016.
42. Variable selection uncertainty in regression models. GDR Statistique en Santé. Lyon, France. 27 June 2016.
41. Multiple testing in gene set analysis: possibilities and pitfalls. BioSB Conference. Lunteren. 20 April 2016.
40. Multiple testing in gene set analysis: possibilities and pitfalls. Symposium 80 years of Bonferroni. Padua, Italy. 20 October 2015.
39. Efficient approximate  $k$ -fold and leave-one-out cross-validation for ridge regression. European Meeting of Statisticians. Amsterdam. 6 July 2015.
38. Discussion of John Storey's talk. Dutch Chemometrics Masterclass (invited discussant). Rotterdam. 19 March 2015.
37. Two folklores: ridge regression versus the lasso. 25 year jubilee meeting of the Dutch/Flemish Classification Society. Kerkrade. 6 November 2014.
36. Flexible Multiple Testing. Nonclinical statistics. Brugge, Belgium. 10 October 2014.
35. A global x global test for association between two high-dimensional data sets. Abel symposium. Kabelvåg, Norway. 7 May 2014.
34. Flexible multiple testing. Netherlands Bioinformatics Conference. Lunteren. 9 April 2014.
33. The Magician's apprentice. Seminar "The Joy of Data Analysis" in honor of Paul Eilers. Rotterdam. 24 January 2014.
32. Variable selection with confidence. International Conference on Simultaneous Inference. Hannover, Germany. 24 September 2013.
31. Two folklores: ridge regression versus the lasso. International Society for Clinical Biostatistics. Munich. 27 August 2013.
30. Post hoc inference using false discovery proportions. GDR Statistique et Santé. Paris. 24 June 2013.
29. False discovery proportions of gene lists prioritized by the user. Dagstuhl Seminar on Computational Methods Aiding Early-Stage Drug Design. Dagstuhl, Germany. 24 May 2013.
28. Cherry-picking: multiple testing for exploratory research. IMS world conference. Istanbul, 12 July 2012.
27. Cherry-picking: multiple testing for exploratory research. Journées de Statistique. Brussels. 24 May 2012.
26. The pursuit of knowledge in the presence of uncertainty. Euvirna workshop. Noordwijk. 4 April 2012.
25. Relaxing the null hypotheses of global tests. Biometrisches Kolloquium. Berlin. 14 March 2012.
24. Variable selection with confidence. Spring Symposium in Biostatistics. Rotterdam. 9 March 2012.
23. Global tests, local tests and multiple testing. Workshop Statistical and Dynamical Models in Biology and Medicine. Göttingen, Germany. 27 October 2011.

22. Cherry-picking: multiple testing for exploratory research. Multiple Comparisons Conference. Washington. 17 August 2011.
21. Cherry-picking: multiple testing for exploratory research. Workshop statistics for post-genomic data. Paris. 27 January 2011.
20. Fast approximate leave-one-out cross-validation. Workshop Validation in Statistics and Machine Learning. Berlin. 6 October 2010.
19. Three-sided testing: simultaneous testing of superiority, equivalence and inferiority. Applied Statistics. Ribno, Slovenia. 21 September 2010.
18. Sequential Testing of logically related hypotheses. European Meeting of Statisticians. Piraeus, Greece. 18 August 2010.
17. The sequential rejection principle of familwise error control. muTOSS workshop. Berlin. 16 February 2010.
16. Motivating ridge regression. Workshop Statistical Issues in Prediction. Oberwolfach, Germany. 26 January 2010.
15. Multiple testing on the graph of gene ontology. Workshop Critical Assessment of Microarray Data Analysis (CAMDA). Vienna. 6 December 2008.
14. Testing against a High Dimensional Alternative. Royal Statistical Society Conference. Nottingham, U. K. 4 September 2008.
13. Testing Gene Sets in Gene Expression Studies. International Society for Clinical Biostatistics. Copenhagen. 19 August 2008.
12. Multiple Testing on the graph of Gene Ontology. Joint Statistical Meetings. Denver, U.S.A. 4 August 2008.
11. An efficient algorithm for L1 penalized estimation. Statistical Computing Workshop. Reisensburg, Germany. 1 June 2008.
10. Sparse Regression Models in high-dimensional Data. Statistical Methods in Bioinformatics Annual Workshop. Munich, Germany. 23 November 2007.
9. Multiple testing on the graph of Gene Ontology. Workshop Statistics for Biomolecular Data. Ascona, Switzerland. 15 June 2007.
8. Using Gene Ontology to Analyze Microarray Data. Drug Information Association Euromeeting. Vienna. 28 March 2007.
7. Autoregressive Logistic Ridge Regression for Classification. Proteomics Classification Competition. Leiden. 1 March 2007.
6. Multiple testing on the graph of Gene Ontology. Workshop statistical methods for post-genomic data. Paris. 16 January 2007.
5. Gene set enrichment methods: methodological issues. Industry Workshop. European Bioinformatics Institute, Cambridge. 26 September 2006.
4. Finding pathways associated with a phenotype using gene expression data. CMSB Symposium on Alzheimer's Disease. Oegstgeest. 20 April 2006.
3. Testing association of gene sets with a response and other advanced BioConductor methods. Workshop Transcriptomics and Proteomics in Zebrafish. Leiden. 21 March 2006.
2. Causal or Casual? A Statistician's View of QCA. Qualitative Comparative Analysis Course. Kaunas, Lithuania. 16 October 2003.
1. A global test for differential expression of groups of genes. Workshop Statistical Aspects of Microarray Data. Aarhus, Denmark. 21 February 2003.

### **Contributed Oral Presentations at International Conferences**

28. Conditional versus unconditional approaches to selective inference. Multiple Comparisons Conference. Bremen. August 2022.
27. Comparing three groups. IBC. Riga. July 2022.
27. Cluster extent inference revisited: Quantification and localization of brain activity. IBS Channel network. Online. April 2021.
26. All-Resolutions Inference: interactive inference for neuroimaging. IBS Channel Network. Rothamsted, U.K. 12 July 2019.
25. Non-consonant rejections in Hommel's procedure. Multiple Comparisons Conference. Riverside, U.S.A. June 2017.
24. Multiple testing in gene set analysis: possibilities and pitfalls. BioSB conference. Lunteren. April 2016.

23. Extending Hommel's procedure. Multiple Comparisons Conference. Hyderabad. 4 September 2015.
22. Borrowed strength: the moderated t-test and its moderated p-values. Multiple Comparisons Conference. Southampton. 10 July 2013.
21. Borrowed strength: the moderated t-test and its moderated p-values. IBS Channel Network Meeting. St Andrews. 3 July 2013.
20. Cherry-picking: multiple testing for exploratory research. IBS Channel network meeting. Bordeaux. 11 April 2011.
19. Multiple testing of graph-structured hypotheses. International Symposium on Networks in Bioinformatics. Amsterdam. 22 April 2010.
18. Sequential testing of structured null hypotheses. Workshop Statistics for Biomolecular Data. Ascona. 4 May 2009.
17. The sequential rejection principle of familywise error control. Channel Network Meeting. Gent. 8 April 2009.
16. Multiple testing on the graph of Gene Ontology. Multiple Comparisons Conference. Vienna. 9 July 2007.
15. LASSO estimation in high dimensional Generalized Linear Models. Channel Network Conference of the IBS. Kerkrade. 9 May 2007.
14. Sampling genes or sampling patients? Two approaches for finding significant gene sets International Biometric Conference. Montreal. 20 July 2006.
13. Family wise error on the directed acyclic graph of Gene Ontology. Statistical Computing Workshop. Reisensburg. 26 June 2006.
12. Sampling genes or sampling patients? Two approaches for finding significant gene sets. Symposium Statistical Methods for Microarray Data. Leiden. 7 March 2006.
11. Model-based dimension reduction in high-dimensional regression. Computational Statistics & Data Analysis. Limassol. 30 October 2005.
10. The Global Test for Groups of Genes. Testing association of a pathway with survival using a single test. Centre for Biostatistics, Utrecht, 18 May 2005.
9. A goodness-of-fit test for multinomial logistic regression. BMS Multi-Region Conference. Leicester. 7 April 2005. Runner-up for best young researcher's oral presentation.
8. Global testing as an alternative to single gene testing in genomic microarray data, with some open multiple testing problems. CIRM Seminar. Luminy. 2 November 2004.
7. Using factor analysis for prediction in high dimensional data. ISCB. Leiden. 16 August 2004.
6. A global test for groups of genes: testing association of a pathway with survival using a single test. Genomic Data Conference. Harvard Medical School, Boston. 11 May 2004.
5. The Global Test: Testing association of a pathway with a clinical outcome using a single test. International Conference on Applied Genomics. Amsterdam. 4 October 2003.
4. Dimension reduction for microarray data using latent variables. Workshop on Statistical Analysis of Gene Expression Data. Wye. 12 July 2003.
3. A global test for association of groups of genes with a clinical outcome. Dutch Biometric Conference. Kerkrade. 13 May 2003.
2. A global test for classification using high-dimensional microarray data. Workshop on High Dimensional Data. Leiden. 11 September 2002.
1. Predicting survival using disease history. International Biometric Conference. Freiburg. 22 July 2002.

### Organization of Workshops and Symposia

- |            |   |
|------------|---|
| 2022-pres. | International Seminar on Selective Inference. Co-organizer.                                   |
| 2022       | IBC Riga. Scientific Program Committee.   |
| 2018-pres. | IBS Channel network Conference. Scientific Program Committee.                                 |
| 2015       | Biometric Society Channel Network Meeting. Nijmegen. Local Organizing Committee               |
| 2015       | International Society for Clinical Biostatistics. Utrecht. Scientific Programme Committee.    |
| 2013       | BMS-ANed Spring meeting. Leiden. Organizer.   |
| 2010       | International Society for Clinical Biostatistics. Copenhagen. Scientific Programme Committee. |
| 2007-2012  | Critical Assessment of Microarray Data (CAMDA). Program Committee.                            |

- 2006-2014 Workshops Statistical Methods for Post-Genomic Data. Scientific Programme Committee.
- 2006 Symposium Statistical Methods for Microarray Data. Leiden. 8 March 2006. Organizer.
- 2002 Workshop On High-Dimensional Data, Leiden. 9-20 September 2002. Co-organizer.

### PhD opposition committees

#### *External (international in bold)*

- 2022** Jinzhou Li (ETH Zurich, Switzerland)
- 2022** Phillip Mogensen (University of Copenhagen)
- 2021** Samuel Davenport (University of Oxford, UK)
- 2019 Thea Bjørnland (university of Trondheim, Norway)
- 2019 Ewald van Dyk (TU Delft)
- 2016 Jakub Pecanka (Vrije Universiteit Amsterdam)
- 2015 Putri Novianti (Utrecht University)
- 2015 Mathijs Sanders (Erasmus University Rotterdam)
- 2014 Harm-Jan Westra (University of Groningen)
- 2014 Erdogan Taskesen (Erasmus University Rotterdam)
- 2010** Hege Bøvelstad (University of Oslo)
- 2010 Geert Geeven (Vrije Universiteit Amsterdam)
- 2010 Martin van Vliet (Delft University of Technology)
- 2008 Kyung In Kim (Eindhoven University of Technology)
- 2008** Suzy van Zanden (University of Hasselt, Belgium)

#### *Local*

(stopped listing this after 2019)

- 2019 René Luijk (Leiden University)
- 2018 Wouter den Hollander (Leiden University)
- 2018 Alexia Kakorou (Leiden University)
- 2018 Jesse Krijthe (Leiden University)
- 2017 Nannan He (Leiden University)
- 2017 Matthias Roost (Leiden University)
- 2017 Else Eising (Leiden University)
- 2016 Roderick Slieker (Leiden University)
- 2014 Alina Nicolaie (Leiden University)
- 2013 Maarten van Iterson (Leiden University)
- 2012 Ralph Rippe (Leiden University)
- 2012 Chris Lauber (Leiden University)

### Other committees

- 2021-pres. Steering Committee of the master's program Statistics and Data Science
- 2016-pres. Jury of Van Zwet award of the Dutch Statistical Society for best PhD thesis. From 2017 chair.
- 2016-2021 Program Committee of the master's programme Statistical Science, chair.
- 2006-2008 Project assistant to the Foresight Committee (Verkenningcommissie) for Biomathematics of the Royal Netherlands Academy of Arts and Sciences (KNAW)
- 2003-2005 Secretary of the Leiden PhD Candidates Association LEO

### Editorial and refereeing activities

#### *Associate Editor*

- 2022-pres. Journal of the Royal Statistical Society, Series B
- 2019-2025 The Annals of Statistics
- 2018-2020 Biometrics
- 2015-pres. Statistica Neerlandica

2012-2018 Statistics in Medicine  
2012-2013 STAT  
2011-2014 Statistical Modelling

*Committee (Funding agencies)*

2018 ZonMw Off Road  
2016 ZonMw Doelmatigheid  
2015 ZonMw Toepassen van Innovaties binnen Meer Kennis met Minder Dieren

*Referee (Journals, in bold if frequent)*

Aging cell, Annals of Applied Statistics, Annals of Statistics, Applied Statistics, **Bioinformatics**, **Biometrical Journal**, **Biometrics**, Biometrika, **Biostatistics**, **BMC Bioinformatics**, BMC Genomics, Clinical Oncology, Communications in Statistics–Theory and Methods, Computational Statistics, **Computational Statistics & Data Analysis**, Computers & Industrial Engineering, Entropy, European Journal of Human Genetics, Electronic Journal of Statistics, Genetic Epidemiology, INFORMS Journal on Computing, International Journal of Biostatistics, Journal of Multivariate Analysis, **Journal of the Royal Statistical Society, Series B**, Molecular Oncology, Nature, Nucleic Acids Research, PeerJ, PLoS Genetics, **Statistical Applications in Genetics and Molecular Biology**, Statistical Modelling, Statistics and Probability Letters, **Statistics in Medicine**, Transactions on Computational Biology and Bioinformatics

*Referee (Funding agencies)*

Research Foundation Flanders (FWO)  
Israel Science Foundation  
Netherlands Organisation for Scientific Research (NWO)  
Research Grants Council of Hong Kong

## Teaching

(more important or intensive teaching activities are marked in bold)

Basic Teaching Qualification (BKO) attained in 2013 at Leiden University Medical Center

- 2020-pres.** Statistics and Probability course in the Statistics and Data Science Master's program. I teach 1/3 of a 9 EC course.
- 2016-pres.** Introductory statistics lectures and tutorials for the course "Academische en Wetenschappelijke Vorming 1", for first year medicine students (bachelor). Since 2023 joint coordinator.
- 2015** Lectures in the course "Labvaardigheden" for first year biomedical sciences students.
- 2014-2015 Lecture on multiple testing in Biometrics course for PhD students.
- 2013** Introductory statistics lectures and tutorials for the course "Wetenschappelijke vorming", for first year medicine students (bachelor)
- 2011-2020 Yearly lecture in NBIC RNAseq data analysis course.
- 2010-2012 Lecture and practical in PhD course "Systems Biology: statistical analysis of ~omics data" at Wageningen University. Taught once per two years.
- 2010-2013** Semester-long course "High-dimensional data analysis" for master's students in Statistical Science. Designed and taught together with Mark van de Wiel and Wessel van Wieringen.
- 2010-2020** Three (later four) day course "Using R for data analysis" for PhD students, designed and taught together with Renée de Menezes, Szymon Kielbasa, Ramin Monajemi. Taught twice per year at LUMC (sometimes at VUMC and Radboudumc).
- 2009-2011 Yearly lecture in course "Depressie: erfelijk?" for master's students of medicine.
- 2009 Lecture in CMSB PhD course on Microarray Data analysis.
- 2008 Several lectures in three week course block "Methoden en technieken van wetenschappelijk onderzoek" for bachelor students Biomedical Science.
- 2007-2018 Yearly lecture and practical in MGC course "Microarray data analysis"
- 2006-2008** Yearly semester-long course "Statistical methods for classification and prognosis" for the Leiden/Delft master track Bioinformatics. Taught together with Hans van Houwelingen in 2006.

- 2006-2013 Yearly lecture on philosophy of science in course "Wetenschappelijke vorming" for second year medicine students (bachelor).
- 2005-2013 Yearly lecture in "Frontiers of science: bioinformatics" course for master students in Biomedical Science.
- 2005-2006 Incidental tutorials of probability and statistics for medicine and biomedical science students.
- 2001-2005 Various weekly semester-long tutorials (taught as a PhD student): probability and statistics for mathematics and astronomy students; mathematics for life science and technology students; incidental tutorials of probability and statistics for medicine and biomedical science students.
- 1995-1998 Various weekly semester-long tutorials (taught as a teaching assistant): algebra and linear algebra for mathematics students; mathematics for chemistry students.

### PhD Theses (promotor)

- 2022 Anna Vesely (University of Padua)
- 2018 Jesse Hemerik (Leiden University)
- 2016 Joanna in't Hout (Radboud University)
- 2015 Rosa Meijer (Leiden University)
- 2015 Esther Oomen-de Hoop (Radboud University)

### Master Theses (primary supervisor)

- 2023 Thomas Devilee (University of Leiden, Statistics and Data Science)
- 2023 Songqiao Han (University of Leiden, Statistics and Data Science)
- 2022 Jakob Walter (University of Leiden, Statistics and Data Science)
- 2022 Levi Winkelman (University of Leiden, Statistics and Data Science)
- 2021 Jeremy Dai (University of Leiden, Statistics and Data Science)
- 2020 George Li (University of Leiden, Statistical Science)
- 2019 Martha van Kempen (University of Leiden, Statistical Science)
- 2018 Yuping Liu (University of Leiden, Statistical Science)
- 2017 Wouter van Loon (University of Leiden, Statistical Science)
- 2013 Jesse Hemerik (University of Leiden, Mathematics)
- 2013 Nynke Krol (University of Leiden, Statistical Science)
- 2012 Branko Misovic (VU Amsterdam, Bioinformatics)
- 2012 Marius Gheorghe (University of Leiden, Computer Science)
- 2012 René Luijk (University of Leiden, Statistical Science)
- 2011 David Vossen (VU Amsterdam, Bioinformatics)
- 2010 Rosa Meijer (Delft University of Technology, Bioinformatics)
- 2009 Mathijs Sanders (Delft University of Technology, Bioinformatics)

### Management training

- 2014-2015 Radboud Hypatia track (15 full days in total. Subjects: leadership, vision, finance, HR, personal effectiveness, inspiration, influence, entrepreneurship)

### In the media

- 2023 Geciteerd in de Volkskrant over survival-analyse: <https://www.volkskrant.nl/nieuws-achtergrond/psychiatrisch-patienten-in-nederland-niet-systematisch-verwaarloosd-tijdens-wo-ii-stelt-niod-de-studie-krijgt-meteen-kritiek~b1350455/?referrer=https%3A%2F%2Fwww.google.com%2F>
- 2023 Geciteerd in NRC Handelsblad over observationeel versus gerandomiseerd onderzoek: <https://www.nrc.nl/nieuws/2023/11/02/in-kortrijk-werkt-hydroxychloroquine-wel-tegen-doodgaan-aan-corona-a4179367>

- 2020 Geciteerd op voorpagina NRC handelsblad over vals positieven in COVID-tests:  
<https://www.nrc.nl/nieuws/2020/09/10/geen-corona-toch-in-quarantaine-a4011600>
- 2016 Geciteerd in "Wij van de kauwgom adviseren: kauwgom" in NRC Handelsblad, 8-3-2016, p. 13.
- 2015 Portret "Waarom onderzoek niet altijd betrouwbaar is" in Radbode
- 2014 Interview with De Kennis van Nu (Radio 5)  
[https://www.ntr.nl/De-Kennis-van-Nu-Radio/139/detail/De-Kennis-van-Nu-/RBX\\_NTR\\_1235716](https://www.ntr.nl/De-Kennis-van-Nu-Radio/139/detail/De-Kennis-van-Nu-/RBX_NTR_1235716)
- 2013 Interview "Medische Statistiek volop in beweging" in *CBS Magazine* 01/2013, p.41-47.  
<http://download.cbs.nl/pdf/2013-01-lente-relatiemagazine-pub.pdf>
- 2009 Interview "Een medisch vraagstuk met een wiskundige omweg". *Wiskunde in Perspectief*.