

Gerda CLAESKENS

Address OR & Business Statistics
 Leuven Statistics Research Center
 K.U. Leuven
 Naamsestraat 69
 3000 Leuven, Belgium

Phone +32(0)16/32.6993
Fax +32(0)16/32.6732
E-mail gerda.claeskens@econ.kuleuven.be

Academic appointments

- 2008 –: **Associate Professor** (hoogleraar), OR and Business Statistics, K.U. Leuven, Belgium.
- 2004 – 2008 : **Associate Professor** (hoofddocent), OR and Business Statistics, K.U. Leuven, Belgium.
- 2003 – 2004: **Visiting Professor**, Institute of Statistics, Université catholique de Louvain, Louvain-la-Neuve, Belgium.
- 2000 – 2004: **Assistant Professor**, Department of Statistics, Texas A&M University, College Station, TX, USA.
- 1999 – 2000 : **Assistant Professor**, Statistics, Department of Mathematics and Computing Science, Eindhoven University of Technology, Eindhoven, The Netherlands.
- 2000 (March– August): **Research Associate**, Centre for Mathematics and its Applications, Australian National University, Canberra, Australia.
- 1996 – 1999: **Research Assistant** of the Fund for Scientific Research Flanders - Belgium (FWO), at Center for Statistics, Limburgs Universitair Centrum, Diepenbeek, Belgium.
- 1995 – 1996: **Teaching Assistant**, Center for Statistics, Limburgs Universitair Centrum, Diepenbeek, Belgium.

Visiting Position

- 2002: May – August. Visiting Professor, Center for Statistics, Limburgs Universitair Centrum, Diepenbeek, Belgium.

University Education

- **Ph.D.**, Science – Mathematics, “Smoothing Techniques and Bootstrap Methods for Multiparameter Likelihood models” (286 pages), May 28, 1999 at Limburgs Universitair Centrum, Diepenbeek, Belgium. Advisor: Prof. Dr. M. Aerts.
- **M.S., Biostatistics**, Limburgs Universitair Centrum, Belgium, 1999.
- **Doctoral Program**, K.U. Leuven, Belgium, June 1998.
- **Academic Teacher Training**, Mathematics, University of Antwerp, Belgium, 1995.
- **Licentiate**, Mathematics, University of Antwerp, Belgium, July 1995, Summa Cum Laude.

PhD students

1. Johan Van Kerckhoven. Graduated on 17.01.2008. Faculty of Business and Economics. Predictive modelling: variable selection and classification efficiencies.
2. Fabrizio Consentino. Graduated on 27.04.2009. Faculty of Business and Economics. Model selection with incomplete data.
3. Co-advisor of: Ilaria Prosdoci. Graduated on 23.11.2010. Faculty of Sciences. Smooth and robust estimation of mean and dispersion functions in regression models.
4. Leen Slaets. Graduated on 26.05.2011. Faculty of Business and Economics. Analyzing phase and amplitude variation of functional data.
5. Kukatharmini Tharmaratnam. Graduated on 04.07.2011. Faculty of Business and Economics. Robust estimation and model selection in semiparametric regression models.
6. Co-advisor of: Dominik Sznajder. Graduated on 28.10.2011. Faculty of Sciences. Copula-based testing for dependence structures.
7. Eugen Pircalebelu. Research ongoing. Model selection for high-dimensional data.
8. Lore Dirick. Research ongoing. Survival analysis for credit risk modeling.

Postdoctoral students

- Tatyana Krivobokova (1/4/2007–30/6/2008).
- Jean-Marc Freyermuth (started on 7/11/2011).

Teaching experience

- 2009 –. Probability Theory and Descriptive Statistics (in Dutch), bachelor students, Faculty of Business and Economics, K.U.Leuven.
- 2009 –. Statistical Modelling, master/doctoral level students, K.U.Leuven.
- September 2011. Short course on model selection, Università Milano-Bicocca, Italy.
- March 2011. Short course on model selection at the workshop: All models are wrong. . . , University of Groningen - the Netherlands.
- November 2010, February 2012. Short course on Model selection, LStat, K.U.Leuven.
- September 2010, Short course on Model selection, Ecole d'été Ovronnaz - Switzerland.
- September 2009, Short course on Model selection and model averaging. University of Bochum, Germany.
- 2005–2008. Advanced business statistics. master level course, Faculty of Business and Economics, Katholieke Universiteit Leuven.
- 2004–2005. Lecture series on Statistical Model Selection, University of Göttingen, Germany, 14–24 March, 2005.
- 2004–2005. The general linear model and experimental design. Katholieke Universiteit Leuven.
- 2003–2004. Advanced model selection and model averaging. Université catholique de Louvain.
- 2003–2004. Statistics 3210: Resampling methods with applications. Université catholique de Louvain.
- 2002–2003. Statistics 627: Nonparametric function estimation. Texas A&M University.
- 2000–2002. Statistics 211: Principles of Statistics I. Texas A&M University.
- 2002–2003. Statistics 212: Principles of Statistics II. Texas A&M University.
- 1999–2000. Introductory courses in Statistics for students in engineering: chemistry, building and architecture, management, machine construction, at Eindhoven University of Technology.

- 1997–1999. Course on “Computer intensive methods in Statistics” for students of Master in computer science technology at Limburgs Universitair Centrum, Diepenbeek (teaching assistant).
- 1995–1999. Teaching Assistant for some introductory courses in Probability and Statistics to students in Biology, Chemistry, Medicine, Applied Economics and Management Engineering, at Limburgs Universitair Centrum, Diepenbeek.

Erasmus coordinator for statistics (2006–2010)

Research

(a) Awards

- Noether Young Scholar Award 2004. “For outstanding achievements and contributions in nonparametric statistics.”

(b) Service to the profession

- *Guest editor* for a special issue about model selection of *Computational Statistics and Data Analysis*.
- *Associate editor* of the Journal of the American Statistical Association, 2005–2011.
- *Associate editor* of Biometrika, 2008–present.
- *Associate editor* of Journal of Nonparametric Statistics, 2008–present. *Associate editor* of Journal of Statistical Planning and Inference, 2012–present.
- Elected member of the European Regional Committee (ERC) of the “Bernoulli Society”, 2008–2012.

(c) Funding

- GOA project (copromotor) Research Fund of the K.U.Leuven, “Flexible statistical modeling and robust analysis of advanced data structures”. Period 01.10.2011 – 30.09.2016.
- F+ fellowship (11/011), Research Fund of the K.U.Leuven, “Model selection for tree-structured estimation schemes”, Postdoctoral researcher: Jean-Marc Freyermuth.
- FWO project G0595.08. MADS: Multiscale, adaptive data smoothing. 01.10.2010 – 31.12.2011.

- (Past) GOA project (copromotor) Research Fund of the K.U.Leuven, Nonparametric and semiparametric techniques and robust methods in statistical analyses. 01.10.2006 – 30.09.2011
- (Past) FWO project (G.0542.06, promotor). MIST: Models for incomplete data: selection and testing. 01.01.2006 – 31.12.2009
- (Past) National Science Foundation Award for the research project entitled: “Some problems related to model selection”, DMS-0203884, principal investigator.

(d) Book

Claeskens, G. and Hjort, N.L. (2008), *Model Selection and Model Averaging*, Cambridge University Press, Cambridge.

(e) Publications in refereed journals

1. Claeskens, G. (2011). “Focused estimation and model averaging with penalization methods, an overview”. *Statistical Neerlandica*. To appear.
2. Claeskens, G., Ding, H. & Jansen, M. (2011). “Lack-of-fit tests in linear mixed models with application to wavelet tests”. *Journal of Nonparametric Statistics*, to appear.
3. Tharmaratnam, K. & Claeskens, G. (2011). “A comparison of robust versions of the AIC based on M, S and MM estimators”. *Statistics: A Journal of Theoretical and Applied Statistics*, to appear.
4. Slaets, L., Claeskens, G. & Hubert, M. (2012). “Phase and amplitude-based clustering for functional data”. *Computational Statistics and Data Analysis*, **56**, 2360–2374.
5. Vansteelandt, S., Bekaert, M. & Claeskens, G. (2012). “On model selection and model misspecification in causal inference”. *Statistical Methods in Medical Research*, **21**(1), 7-30.
6. Consentino, F. & Claeskens, G. (2011). “Missing covariates in logistic regression, estimation and distribution selection”. *Statistical Modelling*, **11**, 69–93.
7. Ding, H., Claeskens G., Ding, H. & Jansen, M. (2011). “Variable selection in partially linear wavelet models”, *Statistical Modelling*, **11**(5), 409-427.
8. Claeskens, G., Silverman, B. & Slaets, L (2010). “Time warping achieved by a Bayesian prior-posterior transfer fitting strategy”. *Journal of the Royal Statistical Society – Series B*, **72**(5), 673-694.

9. Consentino, F & Claeskens, G. (2010). “Order selection tests with multiply-imputed data”, *Computational Statistics and Data Analysis*, **54**, 2284–2295.
10. Krivobokova, T., Kneib, T. & Claeskens, G. (2010). “Simultaneous confidence bands for penalized spline estimators”, *Journal of the American Statistical Association*, **105**, 852–863.
11. Gijbels, I., Prosdocimi, I. & Claeskens, G. (2010). “Nonparametric estimation of mean and dispersion functions in extended generalized linear models”, *Test*, **19**, 580-608.
12. Tharmaratnam, K., Claeskens, G., Croux, C, & Salibian-Barrera, M. (2010). “S-Estimation for penalized regression splines”. *Journal of Computational and Graphical Statistics*, **19**(3), 609–625..
13. Claeskens, G., & Hart, J.D. (2009). “Rejoinder on: Goodness-of-fit tests in mixed models”, *Test*, **18**, 265-270.
14. Claeskens, G., & Hart, J.D. (2009). “Goodness-of-fit tests in mixed models”, *Test*, **18**, 213-239, with discussion.
15. Claeskens, G., Krivobokova, T. & Opsomer, J.D. (2009). “Asymptotic properties of penalized spline estimators”, *Biometrika*, **96**(3), 529-544.
16. Kauermann, G., Claeskens, G. & Opsomer, J.D. (2009). “Bootstrapping for Penalized Spline Regression”, *Journal of Computational and Graphical Statistics*, **18**(1), 126-146.
17. Bissantz, N., Claeskens, G., Holzmann, H. & Munk, A. (2009). “Testing for lack of fit in inverse regression – with applications to biophotonic imaging”, *Journal of the Royal Statistical Society, Series B*, **71**(1), 25–48.
18. Claeskens, G., Consentino, F. (2008). “Variable selection with incomplete covariate data”, *Biometrics*, **64**, 1062–1069.
19. Claeskens, G., Croux, C., and Van Kerckhoven, J. (2008). “An information criterion for variable selection in Support Vector Machines”, *Journal of Machine Learning Research*, **9**, 541–558.
20. Opsomer, J.D., Claeskens, G., Ranalli, M.G., Kauermann, G. & Breidt, F.J. (2008). “Nonparametric small area estimation using penalized spline regression”, *Journal of the Royal Statistical Society, Series B*, **70**, 265–286.
21. Claeskens, G. & Hjort, N.L. (2008). “Minimising average risk in regression models”, *Econometric Theory*, **24**, 493–527.

22. Claeskens, G., Nguti, R. & Janssen, P. (2008). “One-sided tests in shared frailty models”, *Test*, **17**, 69–82.
23. Claeskens, G., Croux, C. & Van Kerckhoven, J. (2007). “Prediction focussed model selection for autoregressive models”, *The Australian and New Zealand Journal of Statistics*, **49**, 359–379.
24. Claeskens, G. & Carroll, R.J. (2007). “An asymptotic theory for model selection inference in general semiparametric problems”, *Biometrika*, **94**, 249–265.
25. Claeskens, G., Croux, C. & Van Kerckhoven, J. (2006). “Variable selection for logistic regression using a prediction focussed information criterion”, *Biometrics*, **62**, 972–979.
26. Hjort, N.L. & Claeskens, G. (2006). “Focussed information criteria and model averaging for Cox’s hazard regression model”, *Journal of the American Statistical Association*, **101**, 1449–1464.
27. Breidt, J., Claeskens, G. & Opsomer, J. (2005). “Model-Assisted Estimation for Complex Surveys Using Penalized Splines”, *Biometrika*, **92**, 831–846.
28. Crainiceanu, C., Ruppert, D., Claeskens, G. & Wand, M.P. (2005). “Exact likelihood ratio tests for penalised splines”, *Biometrika*, **92**, 91–103.
29. Claeskens, G. (2004). “Restricted likelihood ratio lack of fit tests using mixed spline models”, *Journal of the Royal Statistical Society, Series B*, **68**, 909–926.
30. Aerts, M., Claeskens, G. and Hart, J.D. (2004). “Bayesian-motivated tests of function fit and their asymptotic frequentist properties”, *The Annals of Statistics*, **32**, 2580–2615.
31. Claeskens, G. & Hjort, N.L. (2004). “Goodness of fit via nonparametric likelihood ratios”, *Scandinavian Journal of Statistics*, **31**, 487–513.
32. Hjort, N.L. and Claeskens, G. (2003). Rejoinder to “The focussed information criterion” and “Frequentist model averaging”, *Journal of the American Statistical Association*, 2003, **98**, 938–945. (Discussion: pp. 917–938)
33. Claeskens, G. & Hjort, N.L (2003). “The Focussed Information Criterion”, *Journal of the American Statistical Association*, **98**, 900–916, with discussion.
34. Hjort, N.L. & Claeskens, G. (2003). “Frequentist model average estimators”, *Journal of the American Statistical Association*, **98**, 879–899 with discussion.

35. Claeskens, G., Jing, B.-Y., Peng, L. & Zhou, W. (2003). “Empirical likelihood confidence regions for comparison distributions and ROC curves”, *The Canadian Journal of Statistics*, **31**, 173–190.
36. Claeskens, G. & Van Keilegom, I. (2003). “Bootstrap confidence bands for regression curves and their derivatives”, *The Annals of Statistics*, **31**, 1852–1884.
37. Claeskens, G., Aerts, M. & Molenberghs, G. (2003). “A quadratic bootstrap method and improved estimation in logistic regression”, *Statistics and Probability Letters*, **61**, 383–394.
38. Claeskens, G., Aerts, M., Molenberghs, G. & Ryan, L. (2002). “Robust benchmark dose determination based on profile score methods”, *Environmental and Ecological Statistics*, **9**, 357–377.
39. Claeskens, G. & Hall, P. (2002). “Data sharpening for hazard rate estimation”, *Australian and New Zealand Journal of Statistics*, **44**, 277–283.
40. Claeskens, G. & Hall, P. (2002). “Effect of dependence on stochastic measures of accuracy of density estimators”, *The Annals of Statistics*, **30**, 431–454.
41. Aerts, M., Claeskens, G., Hens, N. & Molenberghs, G. (2002). “Local multiple imputation”, *Biometrika*, **89**, 375–388.
42. Aerts, M., Claeskens, G. & Wand, M. (2002). “Some theory for penalized spline additive models”, *Journal of Statistical Planning and Inference*, **103**, 455–470.
43. Aerts, M. & Claeskens, G. (2001). “Bootstrap tests for misspecified models, with application to clustered binary data”, *Journal of Computational Statistics and Data Analysis*, **36**, 383–401.
44. Claeskens, G. & Aerts, M. (2000). “On local estimating equations in additive multiparameter models”, *Statistics and Probability Letters*, **49**, 139–148.
45. Aerts, M., Claeskens, G. & Hart, J.D. (2000). “Testing lack of fit in multiple regression”, *Biometrika*, **87**, 405–424,
46. Claeskens, G. & Aerts, M. (2000). “Bootstrapping local polynomial estimators in likelihood-based models”, *Journal of Statistical Planning and Inference*, **86**, 63–80.
47. Aerts, M., Claeskens, G. & Hart, J.D. (1999). “Testing the fit of a parametric function”, *Journal of the American Statistical Association*, **94**, 869–879.
48. Aerts, M. & Claeskens, G. (1999). “Bootstrapping pseudolikelihood models for clustered binary data”, *Annals of the Institute of Statistical Mathematics*, **51**, 515–530.

49. Aerts, M. & Claeskens, G. (1997). “Local polynomial estimation in multiparameter likelihood models”, *Journal of the American Statistical Association*, **92**, 1536–1545.

(f) Book Chapters

1. “Flexible modelling of functional data using continuous wavelet dictionaries”, L. Slaets, G. Claeskens & M. Jansen, 2011, in Recent advances in functional data analysis and related topics, 297–300, Editor: F. Ferraty (Springer-Verlag, Berlin, Heidelberg).
2. “Model Selection”, W. Zucchini, G. Claeskens & G. Nguefack-Tsague, in: “*International Encyclopedia of Statistical Sciences*”, 2010, Editor: M. Lovric, Springer.
3. “Nonparametric Estimation”, G. Claeskens & M. Jansen, in” “*International Encyclopedia of Statistical Sciences*”, 2010, Editor: M. Lovric, Springer.
4. “The Cramér-Rao Inequality”, M. Jansen & G. Claeskens, in: “*International Encyclopedia of Statistical Sciences*”, 2010, Editor: M. Lovric, Springer.
5. “Information Criteria”, G. Claeskens, in “*Encyclopedia of Actuarial Sciences*”, 2003, Editors: J. Teugels & B. Sundt, Wiley.
6. Chapter: “Model Misspecification”, G. Claeskens, M. Aerts & L. Declerck, in: “*Topics in Modelling of Clustered Data*”, 2002. Editors: Aerts, M., Geys, H., Molenberghs, G. & Ryan, L., Chapman & Hall/CRC (pp. 173–194).
7. Chapter: “Assessing the Fit of a Model”, G. Claeskens & M. Aerts, in: “*Topics in Modelling of Clustered Data*”, 2002. Editors: Aerts, M., Geys, H., Molenberghs, G. & Ryan, L., Chapman & Hall/CRC (pp. 139–156).
8. Chapter: “Flexible Polynomial Models”, M. Aerts, C. Faes, & G. Claeskens, in: “*Topics in Modelling of Clustered Data*”, 2002. Editors: Aerts, M., Geys, H., Molenberghs, G. & Ryan, L., Chapman & Hall/CRC (pp. 127–138).

(g) Proceedings

1. “Clustering Functional Data via Multivariate Functional Halfspace Depth”, Slaets, L. & Claeskens, G. (2011). JSM Proceedings.
2. “Flexible modelling of functional data using continuous wavelet dictionaries”, Slaets, L., Claeskens, G. & Jansen, M. (2011). Proceedings of the 26th International Workshop on Statistical Modelling, p. 561–564.

3. “Functional clustering based on multiresolution warping”, Slaets, L, and Claeskens, G. (2010). Proceedings of the 23rd International Workshop on Statistical Modelling (Ed. A. Bowman), p. 501–504.
4. “Some recent advances in model selection”, Claeskens, G. (2007). Proceedings of the 56th Session of the ISI, Lisboa (Portugal).
5. “Model selection with missing covariates under ignorable missingness”, Consentino, F. & Claeskens, G. (2007). Proceedings of the 22nd International Workshop on Statistical Modelling (Ed. J. del Castillo, A. Espinal & P. Puig), p. 185–190.
6. “On focussed and less focussed model selection”, Claeskens, G. (2006), Proceedings of the 21th International Workshop on Statistical Modelling. Galway (Ireland), p.3–13.
7. “Nonparametric small area estimation using penalized spline regression”, Opsomer, J.D., Breidt, F.J., Claeskens, G., Kauermann, G. and Ranalli, G. (2004). Proceedings of the Survey Research Methods Section, American Statistical Association, VA.
8. “Frequentist model averaging and model selection”, (2003). Proceedings of the 17th International Workshop on Statistical Modelling (Ed. G. Verbeke, G. Molenberghs, M. Aerts & S. Fieuws), 85–89, Claeskens, G. and Hjort, N.L.
9. “Two lack of fit tests for multiple logistic regression”, (2003). Proceedings of the 17th International Workshop on Statistical Modelling (Ed. G. Verbeke, G. Molenberghs, M. Aerts & S. Fieuws), 15–19, Aerts, M., Claeskens, G., Hart, J., Moons, E. & Wets, G.
10. “Multiple nonparametric bootstrap imputation”, Proceedings of the 16th International Workshop on Statistical Modelling (Ed. Klein, B. and Korsholm, L.), 2001, 219–226. Hens, N., Aerts, M., Claeskens, G. & Molenberghs, G.
11. “Bootstrapping multiparameter models, with applications to clustered binary data”, Proceeding of the 15th International Workshop on Statistical Modelling (Ed. V. Nunez-Anton & E. Ferreira), 2000, 125–130. Aerts, M., Claeskens, G. & Molenberghs, G.
12. “Some results on penalized spline estimation in generalized additive and semiparametric models”, Proceedings of the 52nd Session of the International Statistical Institute, Helsinki, 1999, 207–208, Contributed paper, Claeskens, G., Aerts, M. & Wand, M.P.
13. “Analysis of clustered multivariate data from developmental toxicity studies”, *Proceedings of the 13th Symposium on Computational Statistics*, R. Payne & P. Green

(eds), 1998, Bristol, Keynote paper, 3–14, Molenberghs, G., Geys, H., Declerck, L., Claeskens, G. & Aerts, M.

(h) Other publications

1. Claeskens, G., Van Kerckhoven, J. (2007). Modelselectie met een doel voor ogen: specifieke vragen vereisen specifieke antwoorden; *Business Inzicht*, **25**, 1,4.
2. Van Kerckhoven, J., Claeskens, G., Croux, C. (2007). Variable selection: the focussed paradigm; *Medium Econometrische Toepassingen* **15**, issue 2, 17-21.

Organisation of conferences/workshops

1. ‘11th European Young Statisticians Meeting’, member of the international organizing committee, Marly-le-Roy, France, 1999.
2. Second Leuven Statistical Day: Semi- and nonparametric statistical analysis and smoothing techniques’. K.U.Leuven, 25 mei 2007.
3. ‘International Workshop on Flexible modelling: smoothing and robustness’, K.U.Leuven, 12-14 November 2008.
4. ‘17th Annual Meeting of the Belgian Statistical Society’, Lommel (Belgium), 14-16 October 2009. Chairperson of the Scientific Committee, member of the local organizing committee.
5. ‘28th European Meeting of Statisticians’, Piraeus, Greece, August 2010. Member of the Scientific Committee.
6. ‘18th Annual Meeting of the Belgian Statistical Society’, Spa (Belgium), 13-15 October 2010. Member of the Scientific committee.
7. ‘19th Annual Meeting of the Belgian Statistical Society’, Hasselt (Belgium), 12-14 October 2011. Member of the Scientific committee.

Other research activities

- Member of the research committee of the Leuven Statistics Research Center, 2006–2010.
- Responsible for a seminar series in statistics (joint with the statisticians from the dept. of mathematics).

Memberships

The Belgian Statistical Society,
the American Statistical Society,
the Institute of Mathematical Statistics,
the International Statistical Institute (Elected member),
Bernoulli Society.

Elected member of the board of the Belgian Statistical Society, 2010-2012.

Referee tasks for:

Acta Biotheoretica, Annals of the Institute of Statistical Mathematics, Bernoulli, Biometrics, Biometrika, Communications in Statistics: Theory and Methods, Computational Statistics and Data Analysis, Data Mining and Knowledge Discovery, Econometric Theory, Electronic Journal of Statistics, IEEE Signal Processing Letters, International Journal of Statistical Modelling, International Statistical Review, Journal of Agricultural, Biological and Environmental Statistics, Journal of Business and Economic Statistics, Journal of Computational and Applied Mathematics, Journal of Computational and Graphical Statistics, Journal of Econometrics, Journal of Future Markets, Journal of Machine Learning, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Journal of Statistical Planning and Inference, Journal of the American Statistical Association, Journal of the Royal Statistical Society, Series A, Series B, Quantitative Finance, Scandinavian Journal of Statistics, Statistics in Medicine, Statistical Methods, Statistical Modelling, Statistica Sinica, Statistical Papers, Statistics and Probability Letters, Test, The American Statistician, The Annals of Applied Statistics, The Annals of Statistics, The Australian and New Zealand Journal of Statistics, The Canadian Journal of Statistics.

Science Foundations: National Science Foundation of the U.S., Swiss National Science Foundation, Le Fonds de la Recherche Scientifique (Belgium), National Science Foundation of Hong-Kong.

Book publishers: Springer-Verlag, ASA-SIAM, Cambridge University Press.

Abstracts of presentations at workshops/conferences (no proceedings)

- Claeskens, G. (2011). Clustering and variable selection for functional data. Joint Statistical Meetings 2011 (Miami, U.S.)
- Focused model selection using penalization methods. Graybill 2011 conference (Colorado State University, U.S.)

- Claeskens, G. (2010). Model selection with a focus for high-dimensional data. Nordic conference on mathematical statistics (Voss, Norway), 14–17 June 2010.
- Claeskens, G. (2010). Time warping via a Bayesian multiresolution approach. 9th German Open Conference on Probability and Statistics (Leipzig), March 2–5, 2010.
- Claeskens, G. (2009). Model selection and model testing (Keynote lectures in two parts). IAP-Workshop 2009: Modeling Association and Dependence in Complex Data, Leuven, November 19-20, 2009.
- Claeskens, G. (2009). Goodness-of-fit testing for small area estimation models. 3rd International Conference on Computational and Financial Econometrics (Cyprus)
- Claeskens, G. (2009). Goodness-of-fit tests for the distribution of random effects in a mixed model. 27th European Meeting of Statisticians, Toulouse, July 20–24, 2009.
- Claeskens, G. (2008). Goodness-of-fit tests in mixed models. International seminar on nonparametric inference 2008. Vigo (Spain), 5–7 Nov 2008.
- Claeskens, G. (2007). Order selection in inverse regression models. Oberwolfach workshop on "Reassessing the Paradigms of Statistical Model Building" (Oberwolfach, Germany).
- Claeskens, G. (2007). Selecting models using incomplete data. Joint Statistical Meetings 2007 (Salt Lake City, U.S.).
- Claeskens, G. (2007). Some recent advances in model selection. 56th Session of the International Statistical Institute (Lisboa, Portugal).
- Claeskens, G. (2006). Information criteria for model selection: from fully focussed to blind; 26th European Meeting of Statisticians (Torun, Poland).
- Claeskens, G. (2006). Penalized splines as mixed models for survey estimation; First Leuven Statistical Day.
- Claeskens, G. (2005). Focussed model selection for Cox's hazard regression model; Swiss Statistics Seminar (Bern, Switzerland).
- Claeskens, G. (2005). Penalized spline estimation for surveys; 25th European Meeting of Statisticians (EMS 2005), (Oslo, Norway).
- Claeskens, G. (2005). Model selection in semiparametric models; Noether invited talk, Joint Statistical Meetings 2005 (Minneapolis, U.S.).

- Claeskens, G. (2005). Discussion of the paper by M. Denker 'Almost sure weak convergence'; Francqui Foundation Workshop.
- Claeskens, G. (2005). Model selection and beyond; 13th Annual Meeting of Belgian Statistical Society (BSS 2005).
- Claeskens, G. (2004). Tests of function fit motivated via Bayesian methods and their frequentist properties. 6th Bernoulli world congress (Barcelona, Spain).
- Claeskens, G. (2003). Smoothing based lack of fit tests; Joint Statistical Meetings 2003 (San Francisco, U.S.)
- Claeskens, G. (2003). Frequentist model averaging and the use of the bootstrap, Oberwolfach workshop on: Resampling methods for checking models and statistical hypothesis (Oberwolfach, Germany).
- Claeskens, G. (2002). Confidence bands for regression curves and their derivatives, International workshop on Statistical modeling and inference for complex data structures, UCL, Louvain-la-Neuve.
- Claeskens, G. (2002). Testing lack of fit via likelihood ratios. International conference on current advances and trends in nonparametric statistics (Crete, Greece).
- Claeskens, G. (2002). Likelihood ratio-type lack of fit tests in random regression spline models, *Frontiers of Statistical Research: A celebration of the 40th anniversary of the Department of Statistics at TAMU* (College Station, U.S.)
- Claeskens, G. (2001). Non- and Semiparametric multiple imputation; Conference of Texas Statisticians (San Antonio, U.S.)
- Claeskens, G. (2001). Nonparametric goodness of fit tests: data-driven and easy to use, also in the multidimensional case; 23rd European Meeting of Statisticians (Madeira, Portugal).
- Claeskens, G. (2000). Lack of fit tests in penalized spline additive models; 15th Australian Statistical Conference (Adelaide, Australia).
- Claeskens, G. (1999). Local polynomial estimation in additive multiparameter models; Workshop on Recent Advances in Nonparametric Statistics (Lausanne, Switzerland).
- Claeskens, G. (1998). Tests of model fit based on data-driven model dimension. 22nd European Meeting of Statisticians and 7th Vilnius conference on probability theory and mathematical statistics (Vilnius, Lithuania).

- Claeskens, G. (1997). Local polynomial estimation in multiparameter likelihood models; International Statistical Institute, Satellite meeting (Rostock, Germany).
- Claeskens, G. (1997). Parametric bootstrap for pseudolikelihood models; 10th European Young Statisticians Meeting (Warsaw, Poland)

Seminars and invited presentations at universities

- Claeskens, G. (2012). Goodness-of-fit tests for the frailty distribution in proportional hazards models with shared frailty, Seminar, University of Göttingen, Germany, January 11, 2011.
- Claeskens, G. (2011). Model selection for different purposes, Seminar, Bocconi University Milan, May 23, 2011.
- Claeskens, G. (2010). Functional data: multiresolution warping and clustering, Seminar, Tilburg University, October 27, 2010.
- Claeskens, G. (2010). Multiresolution warping of functional data, Seminar, Université libre de Bruxelles, September 24, 2010.
- Claeskens, G. (2008). REML tests in linear mixed models with application to a wavelet lack-of-fit test, Seminar, University of Hamburg, 8 februari 2008.
- Claeskens, G. (2007). Lack-of-fit tests and order selection in inverse regression models, Seminar, Université de Neuchtel, 27 november 2007.
- Claeskens, G. (2007). Prediction focused model selection for autoregressive models, Seminar, Université catholique de Louvain, 28 september 2007.
- Claeskens, G. (2007). Lack-of-fit tests in semiparametric mixed models, Joint Seminar by the universities of Bochum and Dortmund, 29 mei 2007.
- Claeskens, G. (2007). Model selection by minimizing averaging risk, Seminar, Dep. Psychology, Katholieke Universiteit Leuven, 17 april 2007.
- Claeskens, G. (2005). Focussed model selection for Cox's hazard regression model, Seminar, University of Bern, 20 mei 2005.
- Claeskens, G. (2004). Focussed model selection for the Cox regression model, Seminar, Université Libre de Bruxelles, 10 december 2004.
- Claeskens, G. (2004). Bayesian-motivated tests of function fit and their asymptotic frequentist properties, Seminar, Universiteit Göttingen, 4 februari 2004.

- Claeskens, G. (2004). Bayesian-motivated tests of function fit and their asymptotic frequentist properties, Seminar, Université catholique de Louvain, 30 januari 2004.
- Claeskens, G. (2004). Frequentist model averaging and focussed model selection, Seminar, Universiteit Freiburg, 12 januari 2004.
- Claeskens, G. (2003). Averaging estimators across models and focussed model selection, Seminar, DTEW, Katholieke Universiteit Leuven, 27 november 2003.
- Claeskens, G. (2003). Averaging estimators across models and focussed model selection, Seminar, Department of Economics, University Bielefeld, 17 november 2003.
- Claeskens, G. (2003). Boundary problems in hypothesis testing, an overview of current research, Seminar, University of Oslo, 7 november 2003.
- Claeskens, G. (2003). Model averaging, post-model selection inference and the focussed information criterion, Seminar, Katholieke Universiteit Leuven, 2 juli 2003.
- Claeskens, G. (2003). Model averaging, post-model selection inference and the focussed information criterion, Seminar, Universiteit Gent, 27 mei 2003.
- Claeskens, G. (2002). Frequentist Model Average estimators and the Focussed Information Criterion, Seminar, Stern School of Business, New York University, 14 februari 2003.
- Claeskens, G. (2002). Frequentist Model Average estimators and the Focussed Information Criterion, Seminar, Cornell University, Ithaca, 22 oktober 2002.
- Claeskens, G. (2002). Model averaging and a new model selection criterion: the FIC, Seminar, Limburgs Universitair Centrum, 19 juni 2002.
- Claeskens, G. (2001). Confidence bands for regression curves and their derivatives, Seminar, Iowa State University, Ames, 15 april 2002.
- Claeskens, G. (2001). Strategies for omnibus goodness of fit tests, Seminar, Limburgs Universitair Centrum, 27 juni 2001.
- Claeskens, G. (2001). Local multiple imputation, Seminar, University of Oslo, 28 mei 2001.
- Claeskens, G. (2000). A profile score approach for benchmark dose determination, Seminar, University of New South Wales, Sydney, 2 augustus 2000.
- Claeskens, G. (2000). Omnibus tests via orthogonal series expansions, Seminar, University of Western Australia, Perth, 1 augustus 2000.

- Claeskens, G. (2000). Goodness of fit tests via nonparametric likelihood ratios, Seminar, Murdoch University, Perth, 31 juli 2000.
- Claeskens, G. (2000). A profile score approach for benchmark dose determination, Seminar, La Trobe University, Melbourne, 28 juli 2000.
- Claeskens, G. (2000). Goodness of fit tests via nonparametric likelihood ratios, Seminar, University of Queensland, Brisbane, 24 juli 2000.
- Claeskens, G. (2000). Goodness of fit tests via nonparametric likelihood ratios, Seminar, Australian National University, Canberra, 13 juli 2000.
- Claeskens, G. (2000). A penalized regression spline approach to test the fit of a parametric function, Seminar, Limburgs Universitair Centrum, 16 februari 2000.
- Claeskens, G. (2000). Benchmark dose determination: a profile score approach, Seminar, Texas A&M University, College Station, 10 februari 2000.
- Claeskens, G. (1999). Robust benchmark dose determination based on profile score methods, Seminar, Université catholique de Louvain, Louvain-la-Neuve, 10 december 1999.
- Claeskens, G. (1999). Estimation and testing with penalized regression splines, some results, Joint TUE-Eurandom statistics seminar, Eindhoven, 27 oktober 1999.
- Claeskens, G. (1999). Local polynomial estimation and lack of fit tests for multiparameter models, Seminar, Rice University, Houston, Texas, 1 februari 1999.
- Claeskens, G. (1999). Smoothing techniques and bootstrap methods for multiparameter likelihood models, Seminar, University of Texas at El Paso, El Paso, 27 januari 1999.
- Claeskens, G. (1999). Smoothing techniques for multiparameter additive models, Seminar, Texas A&M University, College Station, 18 januari 1999.
- Claeskens, G. (1998). Local polynomial estimators in likelihood models, Seminar, Limburgs Universitair Centrum, 27 oktober 1998.
- Claeskens, G. (1998). Bootstrapping local polynomial estimators in likelihood models, Seminar, K.U.Leuven, 19 februari 1998.
- Claeskens, G. (1998). Local polynomial estimation in likelihood models, Seminar, K.U.Leuven, 11 februari 1998.