

November, 2009

**Curriculum Vitae  
Sara Anna van de Geer**

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## **1 Personal information**

Born on May 7 1958 in Leiden, The Netherlands.

Married, 1 child.

## **2 Education**

- 1982: Master in Mathematics at the University of Leiden.

- 1987: Ph.D. at the University of Leiden. Supervisors: Prof. R.D. Gill and Prof. W.R. van Zwet.

### **Knowledge of languages**

Dutch, English, French, German.

## **3 Professional experience**

September 2005-: Full Professor at the ETH Zürich.

March 1999-September 2005: Full Professor at the University of Leiden.

August 1997-March 1999: Associate Professor at Université Paul Sabatier, Toulouse.

August 1990-August 1997: Assistant Professor at the University of Leiden.

August 1989-August 1990: Assistant Professor at the University of Utrecht.

July 1988- August 1989: Scientific Researcher at the Centre for Mathematics and Computer Science, Amsterdam.

September 1987-July 1988: Assistant Professor at the University of Bristol.

September 1983-September 1987: Scientific Researcher at the Centre for Mathematics and Computer Science, Amsterdam.

May 1982-September 1983: Scientific Researcher at the University of Tilburg.

## 4 Committees

- Member of various Search Committees ( $> 3$  per year)
- Member of the Research Council of the Swiss National Science Foundation (SNF), Division II (2007- ...)
- Member of the SNF “Fachausschuss Personenförderung” (2007-...)
- Member of the SNF Ambizione Committee (2007- ...)
- Member of the SNF ProDoc Committee (2007-...)
- Chair of the SNF Marie Heim-Vögtlin Committee (2009-...)
- Member of the Scientific Advisory Board, Facultät für Wirtschaftswissenschaften Universität Wien (2007-...)
- Member of the IMS Committee on Nominations for candidates for IMS President-Elect and for Council (2007)
- Member of the IMS Nominations Committee (2001 and 2002)
- Member of the IMS Committee on Fellows (2003 - 2005)
- Panelist National Science Foundation (2003)
- Site Manager of the PASCAL (Pattern Analysis, Statistical Modelling and Computational Learning) Network, till 2006, currently: member.
- Member of the Conseil Scientifique CIRM (2004 - 2008)
- Scientific Advisor EURANDOM (2005)
- 2002-2005: Member of several NWO (Dutch science foundation) grants committees.
- Member of the Taskforce Bio-informatics (2000-2005)
- Member of Center for Medical Systems Biology, Center of Excellence (2000-2005)

## 5 Elected memberships/honors

- Correspondent of the Dutch Royal Academy of Sciences (KNAW)
- Elected Fellow of the Institute of Mathematical Statistics
- Elected member of the International Statistical Institute

- Medallion Lecturer at the Joint Statistical Meetings, San Francisco, August 2003
- International Statistical Institute Award, a token of the ISI's appreciation of service 'above and beyond the call of duty'

## **6 Editorial work**

- Numerous referee reports and book reviews
- Member of the Editorial Board IMS Lecture Notes Series, 2007 - ...
- Editor of Collections Volume (Springer, 2010)
- Associate Editor of The Scandinavian Journal of Statistics, 2010 - ...
- Associate Editor of Bernoulli, 2004 - 2008
- Associate Editor of Statistica Sinica, 2005 - 2008
- One of the two main editors of Bernoulli, 2000 - 2003
- Editor (with J.C. van Houwelingen) of the special issue "High-Dimensional Data", Bernoulli, December 2004.
- Associate Editor of Statistica Neerlandica, 1996 - 2000.
- Associate Editor of the Annals of Statistics, 1997 - 2007 (invited in 2003 to become one of the two main editors)

## 7 Organization of Conferences and workshops

- July 2011: Co-organizer workshop Learning Theory, Foundations of Computational Mathematics (FoCM)
- Co-organizer Oberwolfach Workshop “Sparse recovery problems in high dimensions: statistical inference and learning theory”, Oberwolfach Mathematisches Forschungsinstitut, 2009.
- August 2009: Organizer session “Concentration inequalities”, ISI Durban
- Proposer and Advisor of the Newton Institute program “Statistical Theory and Methods for Complex, High-Dimensional Data” (2008), and co-organizer of the kick-off workshop.
- July 2008: Organizer session “Statistical Learning Theory”, World Congress in Probability and Statistics, Singapore
- Co-organizer Banff workshop “Understanding the new statistics: expanding core statistical theory”, Banff International Research Station, 2008.
- August 2007: Organizer session “Learning from Complex Dependent Structures”, ISI satellite meeting, Porto, Portugal
- Co-Program Chair of the 2006 IMS Annual Meeting, Rio de Janeiro
- August 2006: Organizer session “Empirical Process Applications”, 26<sup>th</sup> European Meeting of Statisticians, Torun, Poland
- Co-organizer PASCAL EURANDOM workshop “Modelling in Classification and Statistical Learning” (2005)
- Member of the IMS/BWS Scientific Program Committee (Barcelona 2004)
- Co-organizer “Statistical Day”, The Netherlands (2004)
- Co-organizer PASCAL EURANDOM workshop “Notions of Complexity” (2004)
- September 2002: Workshop “On High-Dimensional Data”, Lorentz Center, Leiden. Host of Kloosterman Professor D.L. Donoho.
- May 2000: Session “Applications of Empirical Process Theory”, 5<sup>th</sup> World Congress of the Bernoulli Society/IMS Annual Meeting, Guanajuato, Mexico.
- August 1998: Session “Empirical Processes”, 22<sup>nd</sup> European Meeting of Statisticians and 7<sup>th</sup> Vilnius Conference, Vilnius, Lithuania.
- June 1994: Session “M-estimators, maximum likelihood”, 3<sup>rd</sup> World Congress

of the Bernoulli Society and 57<sup>th</sup> Meeting of the Institute of Mathematical Statistics, Chapel Hill, North Carolina.

- Member of the European Regional Committee of the Bernoulli Society, and of the Conference Committee (2004 - 2007)

## 8 Invitations for conferences and workshops

- March 2010: Modern Nonparametric Statistics: Going beyond Asymptotic Minimax, Oberwolfach
- June 2010: Sparse Structures: Statistical Theory and Practice, Bristol
- July 2010: From Probability to Statistics and Back: High-dimensional Models and Processes, Seattle
- August 2010: International Congress of Mathematicians, Hyderabad
- April 3, 2009: Workshop on Sparsity in Machine Learning and Statistics, Cumberland
- November 2009: Workshop on Structure Adaptive Methods, Berlin
- November 2009: Bijeenkomst Stochastici, Lunteren
- January 2008: Opening workshop Newton Program, Cambridge
- March 23, 2008: Workshop on Sparsity in High Dimensional Statistics and Learning Theory, Atlanta
- September 15, 2008: Workshop “Understanding the New Statistics: Expanding Core Statistical Theory” Banff International Research Station
- December 2008: Workshop “Sparsity and Inverse Problems in Statistical Theory and Econometrics” Berlin
- March 2007: “Semiparametric and Nonparametric Methods in Econometrics”, Oberwolfach
- June 2007: 22<sup>nd</sup> IOPS (Interuniversity Graduate School of Psychometrics and Sociometrics) summer conference, Utrecht
- August 2007: IMS Annual Meeting and JSM, Salt Lake City
- August 2007: ISI 2007 satellite meeting on “Probability and Statistics in Science and Technology”, Porto
- May 2006: “Workshop on Frontiers of Statistics”, Princeton, USA
- June 2006: “Probostat 2006”, Smolenice, Bratislava
- July 2006: “Asymptotics, Particles, Processes and Inverse Problems”, Leiden
- August 2006: IMS, Rio de Janeiro

- November 2006: “Qualitative Assumptions and Regularization in High-Dimensional Data”, Oberwolfach.
- March 2005: Helsinki National Visitors Program, Merikrijärvi Research Station
- May 2005: Francqui workshop, Brussels
- July 2005: FoCM Learning Theory Workshop, Santander
- October 2005: “Statistische und Probabilistische Methoden der Modellwahl”, Oberwolfach
- November 2005: “Swiss Statistical Seminar”, Zürich
- April 2004: Dutch/Belgian Mathematical Congress
- May 2004: Journées de Statistique, Montpellier
- September 2004: EMS summer school Laredo
- October 2004: EURANDOM workshop “Notions of Complexity”
- November 2004: “New Inference Concepts for Analysing Complex Data”, Oberwolfach
- January 2003: EURANDOM workshop “Statistical Learning in Classification and Model Selection”, Eindhoven, The Netherlands
- June 2003: Cowles Workshop, Yale
- June 2003: Seventh Purdue Symposium, Purdue
- August 2003: Medallion Lecture, Joint Statistical Meetings, San Francisco
- August 2003: ISI, Berlin.
- September 2003: Workshop on “Regularization in Statistics”, Banff.
- May 2002: Journées de Statistique, Brussels.
- July 2002: Conference on Nonparametric Statistics, Crete.
- July 2001: “Mixtures 2001”, Hamburg.
- December 2001: Rencontres de Statistiques Mathématiques, CIRM, Marseille.
- August 2002: European Meeting of Statisticians, Prague.
- May 2000: 5<sup>th</sup> World Congress of the Bernoulli Society/IMS Annual Meeting, Guanajuato, Mexico.
- August 2000: Garchy meeting on Mathematical Statistics, Garchy, Paris.

- December 2000: Rencontres de Statistiques Mathématiques, CIRM, Marseille.
- August 1999: Summer School on Empirical Processes, Aarhus Denmark.
- October 1999: Workshop on Nonparametric Statistics, München, Germany.
- June 1998: 6<sup>th</sup> Purdue International Symposium on Statistics, Purdue, USA.
- August 1998: 22<sup>nd</sup> European Meeting of Statisticians and 7<sup>th</sup> Vilnius Conference, Vilnius, Lithuania.
- November 1997: XVIIIème Rencontre Franco Belge de Statisticiens, Louvain-la-Neuve, Belgium.
- March 1996: Mathematische Stochastik: Oberwolfach.
- August 1996: High Dimensional Probability: Oberwolfach.
- September 1996: Workshop in Honor of Prof. Hasminskii, Berlin.
- April 1995: Workshop Statistical Inference for Stochastic Processes, Amsterdam.
- May 1995: Journées de Statistique, Jouy-en-Josas.
- October 1995: Empirical Processes: Theory and Applications, Oberwolfach.
- March 1994: Mathematische Stochastik, Oberwolfach.
- June 1994: IMS/Bernoulli, Workshop Developments in Probability Limit Theory and Their Applications in Statistics, Chapel Hill.
- September 1994: Berlin/Paris Seminar, Garchy.
- December 1994: Workshop in Honor of Prof. L. Le Cam, Yale.
- February 1993: Curves, Images, Massive Computation, Oberwolfach.
- December 1993: Workshop Semiparametric Models, Utrecht.
- December 1992: Asymptotische Stochastik, Oberwolfach.
- March 1991: Mathematische Stochastik, Oberwolfach.
- September 1991: 48<sup>th</sup> Session of the International Statistical Institute, Cairo.
- June 1986: Asymptotic Statistics, Kozubnik, Poland.
- October 1985: Young Statisticians Meeting, Varna.

## 9 Invitations of Universities and Institutes

- March 2, 2009:ENS, Paris
- November 2007: Weierstrass Institute, Berlin
- November 2007: University of Geneva
- February 2006: Weierstrass Institute, Berlin
- May 2006: Université Neuchatel
- October 2006: University of Vienna
- May 2005: Université Paris VI et VII
- May 2004: Universität Goettingen
- May 2003: Université Paris VI et VII
- June 2002: Université Paris VI et VII
- November 2002: Université Louvain-la Neuve
- June 2001: University of Lausanne.
- November 2000: Universität Heidelberg.
- December 2000: Université Paul Sabatier, Toulouse.
- October 1999: Universität Heidelberg.
- June 1998-August 1998: Stanford University.
- April 1997: University of Berkeley.
- October 1996: University of Prague.
- November 1996: Universität Heidelberg.
- March 1995: Université de Strasbourg.
- September 1995-October 1995: Université de Toulouse.
- November 1995-January 1996: Universität Heidelberg.
- April 1994: Université de Rennes.
- September 1994-October 1994: Institut National de la Recherche Agronomique,

Jouy-en-Josas.

- October 1994-December 1994: Humboldt Universität and Weierstrass Institute, Berlin.
- November 1994: Polish Academy of Sciences, Wrocław.
- September 1992-October 1992: Universität Heidelberg.
- September 1991-December 1991: Mathematical Sciences Research Institute, Berkeley.
- October 1990: Universität Heidelberg.
- July 1989: Institut National de la Recherche Agronomique, Jouy-en-Josas.
- June 1989: Banach Center, Warsaw.
- July 1986: University of Berkeley.

## 10 Administration

2010-...: Chair of the Seminar for Statistics, ETH Zürich

2006-2009: Vice-chair of the Seminar for Statistics, ETH Zürich

2006- ...: Director of Studies Master in Statistics, ETH Zürich

2001-2005: Member of the Scientific Committee of the Faculty of Mathematics  
and Natural Sciences, Leiden University

2004: Secretary of the “Werkgemeenschap Stochastiek”

1999-2005 : Chair of Probability and Mathematical Statistics, Leiden University

1999-2005: Project leader Prob&Stat Stieltjes Institute.

1993-1996 : computer affairs.

1991-1992, 1999- recruitment students.

1991-1992: financial administration dept. Applied Mathematics.

1992-1995: financial administration dept. Mathematics and Computer Science.

## 11 Grants

- SNF/DFG grant ”Statistical Regularization and Qualitative Constraints”  
(co-applicant) Postdoc + PhD project (2007-2010)
- NWO grant “Learning by empirical  $L_1$  risk minimization, with  $L_1$   
regularization”, Postdoc project (2004)
- EULAR grant “A latent candidate gene model”, Postdoc project (2004)
- NWO grant “Adaptation and classification”, Ph.D. project (2003)

## 12 Teaching

Courses in:

Mathematical Statistics, Applied Statistics, Modeling, Multivariate Analysis, Probability Theory, Regression, Stochastic Processes, Pattern Analysis, Empirical Processes, Integration Theory, General Mathematics, Random numbers and Simulation, Statistics for students Life Science and Technology, Stochastics for Computer Scientists, Probability for students “Living Universe”

Lecture Notes:

- Stochastiek voor Informatici (1992)
- Toegepaste Statistiek (1993)
- Mathematical Statistics (2009)

Supervision of bachelor students and > 35 master students

Member of > 35 (international) Ph.D. committees

Ph.D. Course: Statistics for high-dimensional data. Series of lectures at the FOR 916 meeting, Bern, September 2009 (joint with P. Bühlmann)

Ph.D. Course: M-estimation and complexity regularization. Series of lectures at the “Journées Statistiques du Sud” Toulouse, June 2008

Ph.D. Course: On complex models and weighted empirical processes. Series of lectures at the “Young European Statisticians II” meeting, Eurandom, Eindhoven, October 2008

Ph.D. Course: Empirical process theory and applications in nonparametric statistics, 3eme Cycle Romand, Ovronaz, Switzerland (2007)

Ph.D. Course: Oracle inequalities and regularization (2004: Laredo)

Ph.D. Course: Empirical Processes (2003: Yale)

Ph.D. Course: Nonparametric statistics and regularization (2003: Hilversum)

Ph.D. Course: Applications of Empirical Process Theory (1996: Utrecht, 1998: Stanford).

1994: Courses on Empirical Processes at INRA (Jouy-en-Josas), Humboldt University (Berlin) and Polish Academy of Sciences (Wroclaw).

DEA-courses in Toulouse:

Modèles Linéaires Généralisés (1995),

Processus Empiriques et M-Estimeurs (1997).

## 13 Supervision Ph.D.'s.

- P. Müller (2010-...)
- J. Lederer (2009-...)
- C. Mitchell (2006-2010)
- B. Tarigan (2008)
- J.J. Goeman (2006). Joint project with Prof. J.C. van Houwelingen
- L. Mohammadi (2004)
- J.M. Loubes (2000)
- M. Wegkamp (1996) (Co-Promotor) Winner of Stieltjes Award

## 14 Publications

### Journals

S.A. van de Geer and P. Bühlmann (2009). On the conditions used to prove oracle results for the Lasso. *Electronic Journal of Statistics* (to appear 2009)

C. Mitchell and S. van de Geer (2009). General oracle inequalities for model selection. *Electronic Journal of Statistics* 3, 176–204

L. Meier, S. van de Geer and P. Bühlmann (2009). High-dimensional additive modeling. *The Annals of Statistics* 37, 3779–3821.

Lutz Dümbgen, Sara A. van de Geer, Marc C. Veraar and Jon A. Wellner (2009) Nemirovskis Inequalities Revisited. To appear in: *American Mathematical Monthly*.

K. Lounici, Massimiliano Pontil, A.B. Tsybakov and S.A. van de Geer (2009) Taking advantage of sparsity in multi-task learning COLT 2009.

Nicolas Städler, Peter Bühlmann and Sara van de Geer (2009).  $\ell_1$ -penalization in mixture regression models. Tetatively accepted by Test

S. van de Geer (2008). High-dimensional generalized linear models and the Lasso. *The Annals of Statistics*, 36, 614–645

L. Meier, S. van de Geer and P. Bühlmann (2008). The group Lasso for logistic regression. *JRSS, Series B*, 70, 53–71

B. Tarigan and S. van de Geer (2008). A moment bound for multicategory support vector machines. *Journ. Machine Learning Research* 9, 2171–2185

J.J. Goeman, S.A. van de Geer and J.C. van Houwelingen (2006). Testing against a high-dimensional alternative. *Journ. Americ. Statist. Assoc. B*, 477–493.

B. Tarigan and S.A. van de Geer (2006). Classifiers of support vector machine type, with  $\ell_1$  penalty. *Bernoulli* 12, 1045–1076.

S. van de Geer (2006). Discussion of the paper “Local Rademacher complexities and oracle inequalities in risk minimization”, by V. Koltchinskii, *The Annals of Statistics* 34

S. van de Geer (2006). Discussion of the paper “Regularization in statistics”, by P. Bickel and B. Li, *Test* 15, 311–313.

- A.B. Tsybakov and S.A. van de Geer (2005). Square root penalty: adaptation to the margin in classification and in edge estimation. *The Annals of Statistics* 33, 1203-1224.
- L. Mohammadi and S.A. van de Geer (2005). Asymptotics in empirical risk minimization. *Journal of Machine Learning Research* 6, 2027-2047.
- J. J. Goeman, S. le Cessie, R. J. Baatenburg de Jong en S. A. van de Geer (2004). Predicting survival using disease history: a model combining relative survival and frailty. *Statistica Neerlandica* 58, 21-34.
- J.J. Goeman, S.A. van de Geer, F. de Kort and J.C. van Houwelingen (2004). A global test for association of a group of genes with a clinical outcome. *Bioinformatics* 20, 93-99.
- S.A. van de Geer and J.C. van Houwelingen (2004). High-dimensional data:  $p \gg n$  in mathematical statistics and bio-medical applications. *Bernoulli* 10, 939-942.
- O.B. Linton, J.P. Nielsen and S.A. van de Geer (2003). Estimating multiplicative and additive hazard functions by kernel methods. *The Annals of Statistics* 31, 464-492.
- S. van de Geer (2003). Maximum likelihood for nonparametric mixture models. *Computational Statistics and Data Analysis* 41, 453-464.
- S. van de Geer (2002). Discussion of the paper “Random rates in anisotropic regression”, M. Hoffmann and O. Lepski. *The Annals of Statistics* 30, 325-396.
- S. van de Geer (2002). M-estimation using penalties or sieves. *Journal of Statistical Planning and Inference* 108, 55-69.
- J.-M. Loubes and S. van de Geer (2002). Adaptive estimation in regression, using soft thresholding type penalties. *Statistica Neerlandica* 56, 453-478.
- S. van de Geer (2001). Least squares estimation with complexity penalties. *Mathematical Methods of Statistics* 10, 355-374.
- E. Mammen and S. van de Geer (2001). Discussion of the paper “local extremes, runs, strings and multiresolution”, P.L. Davies and A. Kovac, *The Annals of Statistics* 29, 1-65.
- E. Mammen and S. van de Geer (1997). Locally adaptive regression splines. *The Annals of Statistics* 25, 387-413.
- E. Mammen and S. van de Geer (1997). Penalized quasi-likelihood estimation in partial linear models. *The Annals of Statistics* 25, 1014-1035.
- A. Kapteyn, S. van de Geer, H. van de Stadt and T. Wansbeek (1997). Interdependent Preferences: an econometric analysis. *Journal of Applied Econometrics*

12, 665-685.

S. van de Geer (1996). Rates of convergence for the maximum likelihood estimator in mixture models. *Nonparametric Statistics* 6, 293-310.

S. van de Geer and M. Wegkamp (1996). Consistency for the least squares estimator in non-parametric regression. *The Annals of Statistics* 24, 2513-2523.

S. van de Geer (1995). Exponential inequalities for martingales, with application to maximum likelihood estimation for counting processes. *The Annals of Statistics* 23, 1779-1801.

S. van de Geer (1995). Asymptotic normality in mixture models. *ESAIM, Probability and Statistics* 1, 17-33. (<http://www.emath.fr/ps/>)

S. van de Geer (1995). The method of sieves and minimum contrast estimators. *Mathematical Methods of Statistics* 4, 20-38.

S. van de Geer (1993). Hellinger-consistency of certain nonparametric maximum likelihood estimators. *The Annals of Statistics* 21, 14-44.

A. Marchetti Spaccamela, W.T. Rhee, L. Stougie and S. van de Geer (1992). Probabilistic analysis of the minimum weighted flowtime scheduling problem. *Oper. Res. Lett.* 11, 67-71.

S. van de Geer and L. Stougie (1991). On rates of convergence and asymptotic normality in the multiknapsack problem. *Mathematical Programming* 51, 349-358.

S. van de Geer (1990). Estimating a regression function. *The Annals of Statistics* 18, 907-924.

S. van de Geer (1987). A new approach to least squares estimation, with applications. *Annals of Statistics* 15, 587-602.

K.A. Lawson, R.A. Pedersen, with appendix by S. van de Geer (1987). Cell fate, morphogenetic movement and population kinetics of embryonic endoderm at the time of germ layer formation of the mouse. *Development* 101, 627-652.

P. Haccou, E. Meelis and S. van de Geer (1987). The likelihood ratio test for the change point problem for exponentially distributed random variables. *Stochastic Processes and their Applications* 27, 121-139.

H. van de Stadt, A. Kapteyn and S. van de Geer (1985, 2002). The relativity of utility: evidence from panel data. *Review of Economics and Statistics* 67 (1985). Reprinted in: *Happiness in Economics*, Cheltenham, Edward Elgar (2002).

## Books

E. del Barrio, P. Deheuvels and S.A. van de Geer (2007). *Lectures on Empirical Processes* EMS Series of Lectures in Mathematics, European Mathematical Society Publishing House.

S. van de Geer (2000). *Empirical Processes in M-Estimation*. Cambridge University Press.

S. van de Geer (1988). *Regression Analysis and Empirical Processes*. CWI tract 45, CWI Amsterdam.

### **In Progress (2009):**

S. A. van de Geer and P. Bühlmann: *Statistics for High-Dimensional Data: Methods, Theory and Applications*, Springer (about 300 pages)

S.A. van de Geer: *Application of Empirical Process*, Cambridge University Press (major revision of *Empirical Processes in M-Estimation*) (about 300 pages)

### **Contributions to books**

S. van de Geer (2007). On non-asymptotic bounds for estimation in generalized linear models with highly correlated design. *IMS Lecture Notes, Monograph Series*, Volume 55, 121-134

L. Mohammadi and S. A. van de Geer (2003). On threshold bases classification rules. In: *Mathematical Statistics and Applications, Festschrift for Constance van Eeden* (Eds. M. Moore, S. Freda and C. Léger), IMS, 261-280.

S.A. van de Geer (2003). Adaptive quantile regression. In: *Recent Trends in Nonparametric Statistics* (Eds. M.G. Akritas and D.N. Politis), Elsevier Science, 235-250.

S. van de Geer (2002). On Hoeffding's inequality for dependent random variables. In: *Empirical Process Techniques for Dependent Data*, eds. H. Dehling, T. Mikosch and M. Sørensen, 161–170. Birkhäuser, Boston.

E. Belitser and S. van de Geer (2000). On robust recursive curve estimation. *High Dimensional Probability II*, eds. E. Giné, D.M. Mason, and J.A. Wellner, 391-404, Birkhäuser, Boston.

S. van de Geer (1991). Empirical process theory as a tool to obtain asymptotic results for maximum likelihood estimators. In: *Bulletin of the International Statistical Institute, Proceedings of the 48th Session* Vol. LIV, Book 3, Th. 26/1.

A. Kapteyn, S. van de Geer and H. van de Stadt (1985). The impact of changes in income and family composition on subjective measures of well-being. In: *Horizontal Equity, Uncertainty and Economic Well-Being; Studies in Income and Wealth* 50, 35–69.

## Technical reports

- S. Zhou, S.A. van de Geer and P. Bühlmann (2009). Adaptive Lasso for High Dimensional Regression and Gaussian Graphical Modeling. arXiv:0903.2515
- S.A. van de Geer and V.D. Konakov (2003). Local limit theorems for transition densities of Markov chains converging to diffusions with unbounded drift. Techn. Report 2003-07, University of Leiden.
- L. Mohammadi and S.A. van de Geer (2002). On nonnegative garrote estimator in a linear regression model. Techn. Report MI 2002-12, University of Leiden.
- L. Mohammadi and S. van de Geer (2001). On more or less simple classifiers. Report MI 2001-27, University of Leiden
- S. van de Geer (1995). A maximal inequality for the empirical process. Techn. Report TW 95-05, University of Leiden.
- S. van de Geer (1991). The entropy bound for monotone functions. Techn. Report TW 91-10, University of Leiden.
- S. van de Geer (1988). Asymptotic normality of minimum  $L_1$ -norm estimators in linear regression. Report MS-R8806, CWI Amsterdam.

## Other publications

- S. van de Geer (2008). Report on “Understanding the New Statistics: Expanding Core Statistical Theory” Banff workshop, Banff International Research Station, In: IMS Bulletin, December 2008.
- S. van de Geer (2007). De stemming in Zürich. *Nieuw Archief voor de Wiskunde* 5/8 p. 25
- S. van de Geer (2007). On the limits of learning. *Swiss Statistical Society Bulletin* 56, 11-12
- S. van de Geer, (2007). The deterministic Lasso. JSM proceedings, paper nr. 489.
- S. van de Geer (2006). A bound for the empirical risk minimizer. Oberwolfach reports 49, 2989-2992.
- S. van de Geer (2005). A survey on empirical risk minimization. Oberwolfach reports 47, 2644-2648.
- S. van de Geer (2005) Least squares estimators. In: *Encyclopedia Statistics in The Behavioral Sciences*, Eds. B. Everitt and D. Howell, Wiley
- S. van de Geer (2005). Estimation. In: *Encyclopedia Statistics in The Behavioral Sciences*, Eds. B. Everitt and D. Howell, Wiley

- S. van de Geer (2004) Zeker toeval. *Natuurkundige voordrachten*, 82, 55–62 (publication of De Koninklijke Maatschappij voor de Natuurkunde).
- S. van de Geer (joint with B. Tarigan) (2004). Adaptive support vector machines. Oberwolfach reports 52, 2809-2811
- S. van de Geer (2002). Onzekerheidsprincipes. STAtOR, maart 2002.
- S. van de Geer (2002). Statistiek en genen. STAtOR, juni 2002.
- S. van de Geer (2002). Ondraaglijke lichtheid. STAtOR, oktober 2002.
- S. van de Geer (2001). Ode aan het toeval. STAtOR, december 2001.
- S. van de Geer (2001). Een zeker toeval. *Nieuw Archief voor de Wiskunde*, vijfde serie, deel 2, 114-119.
- A. Kapteyn, H. van de Stadt en S.A. van de Geer (1985). Uitkeringen, armoede en welvaart. Naar een consequente definitie van bestaansonzekerheid. *Economisch Statistische Berichten* 70, 384-389.