

Curriculum Vitae – Marloes H. Maathuis

Contact information

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Research interests

Non/semi-parametric estimation, survival analysis, censored data, competing risks, causal inference, statistical computing, applications to HIV/AIDS.

Education

- 2006 Ph.D., Statistics, University of Washington (UW).
 Thesis: “Nonparametric estimation for current status data with competing risks”.
 Advisors: Prof. P. Groeneboom and Prof. J.A. Wellner.
- 2003 M.S., Applied Mathematics, Delft University of Technology, The Netherlands.
 Thesis: “Nonparametric maximum likelihood estimation for bivariate censored data”.
 Advisors: Prof. P. Groeneboom and Prof. J.A. Wellner.
- 2001 B.S., Applied Mathematics, Delft University of Technology, The Netherlands.

Professional experience

- Sep 2007- Assistant Professor in Applied Mathematics, ETH Zurich, Switzerland.
- 2006-2007 Acting Assistant Professor, UW Department of Statistics.
- 2002-2006 Research Assistant, UW Department of Statistics.
 Topic: Nonparametric estimation with censored data and competing risks.
 Supervisor: Prof. J.A. Wellner.
- 2001-2002 Teaching Assistant, UW Department of Statistics.
- 2000 Intern, Ethiopian Netherlands AIDS Research Project, Addis Ababa, Ethiopia.
 Topic: Estimating the lifetime risk of dying from AIDS (2 months).
- 1998 Research Assistant, Delft University of Technology, The Netherlands.
 Topic: Developing a new freshman level course on real analysis and linear algebra.
 Supervisor: Prof. J.M. Aarts.

Honors

- 2006 Nominated by the UW Department of Statistics for the biannual Distinguished Dissertation Award of the Council of Graduate Schools / University Microfilms International.
- 2004 Z.W. Birnbaum Award of the UW Department of Statistics for outstanding performance in the general exam.
- 2004 Thesis Award of the Dutch Society for Statistics and Operations Research for the best Master's thesis in statistics and operations research in the Netherlands.
- 2004 Winner of the student paper competition of the ASA Statistical Computing and Graphics sections, for the paper "Reduction algorithm for the NPMLE for the distribution function of bivariate interval censored data".
- 2003 University Fund Delft Award for the best Master's student in Applied Mathematics at the Delft University of Technology, the Netherlands.

Travel awards

- 2006 NSF Junior Oberwolfach Fellowship for travel to a workshop on Qualitative Assumptions and Regularization in High-Dimensional Statistics, Oberwolfach, Germany.
- 2006 Graduate Student Travel Award from the UW Graduate School Fund for Excellence and Innovation for travel to the 2006 ENAR spring meeting, Tampa.
- 2005 IMS Laha Travel Award for travel to the Joint Statistical Meetings 2005, Minneapolis.
- 2004 NSF VIGRE travel grant for travel to the Dutch Statistical Day, The Netherlands.
- 2000 University Fund Delft grant for travel to internship in Ethiopia.

Refereed articles

1. P. GROENEBOOM, M.H. MAATHUIS AND J.A. WELLNER (2007). Current status data with competing risks: limiting distribution of the MLE. *Annals of Statistics*, *accepted*.
2. P. GROENEBOOM, M.H. MAATHUIS AND J.A. WELLNER (2007). Current status data with competing risks: consistency and rates of convergence of the MLE. *Annals of Statistics*, *accepted*.
3. M.H. MAATHUIS AND J.A. WELLNER (2007). Inconsistency of the MLE for the joint distribution of interval censored survival times and continuous marks. *Scandinavian Journal of Statistics*, *accepted*.
4. M.G. HUDGENS, M.H. MAATHUIS AND P.B. GILBERT (2007). Nonparametric estimation of the joint distribution of a survival time subject to interval censoring and a continuous mark variable. *Biometrics* **63** 372–380.
5. M.H. MAATHUIS (2005). Reduction algorithm for the NPMLE for the distribution function of bivariate interval censored data. *Journal of Computational and Graphical Statistics* **14** 252–262.

Theses

1. M.H. MAATHUIS (2006). *Nonparametric Estimation for Current Status Data with Competing Risks*. Ph.D. thesis, Department of Statistics, University of Washington.
2. M.H. MAATHUIS (2003). *Nonparametric Maximum Likelihood Estimation for Bivariate Censored Data*. Master's Thesis, Delft University of Technology, The Netherlands.

R-packages available from the Comprehensive R Archive Network (CRAN)

1. MLEcens: Computation of the MLE for bivariate (interval) censored data.
2. bicreduc: Reduction algorithm for the computation of the MLE for bivariate interval censored data. (This package is longer maintained since it is now part of the package MLEcens.)

Presentations and meetings

1. Swiss Statistics Seminar, Luzern, November 2007 (invited talk).
2. Workshop on Reassessing the Paradigms of Statistical Model Building, Oberwolfach, Germany, October 2007 (invited participant).
3. Conference on Algorithms in Complex System at EURANDOM, The Netherlands, September 2007 (invited talk).
4. WNAR, University of California Irvine, June 2007 (invited talk).
5. Undergraduate Mathematical Sciences Seminar, University of Washington, April 2007.
6. Seminar, Penn State University, February 2007.
7. Seminar, Rutgers University, February 2007.
8. Seminar, Free University of Amsterdam, The Netherlands, February 2007.
9. Seminar, ETH Zürich, Switzerland, January 2007.
10. Seminar, University of California Berkeley, January 2007.
11. Seminar, Iowa State University, January 2007.
12. Workshop on Qualitative Assumptions and Regularization in High-Dimensional Statistics, Mathematisches Forschungsinstitut Oberwolfach, Germany, November 2006 (invited talk).
13. Seminar, Rijksuniversiteit Groningen, The Netherlands, September 2006.
14. Joint Statistical Meetings, Seattle, August 2006 (topic contributed talk).
15. Workshop on Asymptotic, Particles, Processes and Inverse Problems, Leiden, The Netherlands, July 2006 (invited talk).
16. ENAR spring meeting, Tampa, March 2006 (invited talk).
17. Three-week Research in Pairs Program on Shape Constrained Estimation, Testing and Related Inverse Problems, Mathematisches Forschungsinstitut Oberwolfach, Germany, March 2005 (invited participant).
18. Joint Statistical Meetings, Minneapolis, August 2005 (contributed talk).

19. Joint Statistical Meetings, Toronto, August 2004 (talk in session for student paper award winners).
20. Dutch Statistical Day, Amsterdam, The Netherlands, April 2004 (invited talk).

Teaching experience

Teaching at ETH Zurich

- 2007 Survival Analysis for Interval Censored Data (401-4635-57L).
Special topics course.

Teaching at the University of Washington

- 2007 Nonparametric Estimation for Censored Data (stat593a).
Special topics course.
- 2006,2007 Basic Statistics (stat220, 180 students, 2 times).
Textbook: Freedman, Pisani and Purves (2007). *Statistics*. Norton, New York.
- 2006,2007 Applied Regression and ANOVA (stat423, 30 students, 2 times).
Textbook: Fox (1997). *Applied Regression Analysis, Linear Models, and Related Methods*. Sage Publications, Thousand Oaks.

Professional service

General

Referee for: Biometrical Journal, Biometrika, Computational Statistics and Data Analysis, Journal of Computational and Graphical Statistics, Journal of Nonparametric Statistics, Journal of the Royal Statistical Society Series B.

Judge for the 2007 WNAR student paper competition.

To the Department of Statistics, University of Washington

- 2007 Master's applied exam committee (with Peter Hoff and Sibel Sirakaya).
- 2006-2007 Co-organizer of the department seminar series (with Tilmann Gneiting).
- 2006-2007 Undergraduate curriculum committee (with Galen Shorack).
- 2004-2005 Webmaster.
- 2002-2003 Lead teaching assistant.

To the Delft University of Technology

- 1998-1999 Full-time position on the board of the study society for Applied Mathematics and Computer Science.
- 1998-1999 Chair of the organization of a three-week Study Visit from the Netherlands to the USA and Canada on Applied Mathematics and Computer Science (34 participants).
- 1997-1999 Member of the curriculum committee for Applied Mathematics.