

# CV

**Name:** Sara Taskinen

**Year of birth:** 1976

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**Education:**

- **Ph.D.** in statistics. University of Jyväskylä, 31.12.2003. The doctoral thesis: “On nonparametric tests of independence and robust canonical correlation analysis”.
- **M.Sc.** in mathematics. University of Jyväskylä, 29.9.1999. The master’s thesis: “The role of acute and chronic stress in asthma attacks in children”.

**Professional career<sup>1</sup>:**

- **Docent** in statistics, 19.10.2011-, University of Jyväskylä.
- **Academy research fellow**, 1.9.2011-31.8.2016, University of Jyväskylä.
- **Postdoctoral researcher**, 1.8.2010-31.8.2011, University of Jyväskylä.
- **Senior Assistant**, 1.8.2005-31.7.2010 (on leave 1.8.2005-30.6.2009), University of Jyväskylä.
- **Postdoctoral researcher**, 1.8.2004-30.6.2009, University of Jyväskylä and University of New South Wales.
- **Post-graduate student**, 1.1.2000-31.12.2003, University of Jyväskylä.
- **Research assistant**, 1.9.-31.12.1999, Faculty of Medicine, University of Helsinki.
- **Research assistant**, 1.1.-31.8.1999, Department of Psychology, University of Jyväskylä.

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<sup>1</sup>On maternity leave: 9.6.2003-30.4.2004, 21.1.-31.12.2007 and 5.11.2009-19.9.2010.

**Research funding:**

- **Academy of Finland:** Academy research fellow, 1.9.2011-31.8.2016.
- **Academy of Finland:** Postdoctoral research abroad, 1.1.-30.6.2009.
- **University of Jyväskylä:** post-graduate studies, 1.1.-31.12.2000.

**Pedagogical activities:**

- Supervisor (with Dr. Klaus Nordhausen) in Jari Miettinen's doctoral thesis: "On statistical properties of blind source separation methods based on joint diagonalization" that was finished 17.9.2014 (with honors).
- Co-supervisor (with Prof. Hannu Oja) in Seija Sirkiä's doctoral thesis: "Spatial sign and rank based scatter matrices with applications" that was finished 17.11.2007 (with honors).
- Lectured following intermediate or advanced level courses at the University of Jyväskylä:
  - Survival analysis 2004 and 2009,
  - Nonparametric and robust methods in 2006 and 2012,
  - Introduction to independent component analysis in 2010,
  - Mixture models in 2011,
  - Time series analysis in 2012 and 2014.
- Supervised master's students of statistics as well as students of applied fields, e.g gerontology, psychology, information technology and social studies.
- Completed basic studies in pedagogics during 1998. Will complete University pedagogical studies in 2014.

**Referee work for:**

- Journal of Nonparametric Statistics
- Statistics and Probability Letters
- Computational Statistics and Data Analysis
- Journal of Statistical Planning and Inference
- Communications in Statistics
- Journal of Multivariate Analysis

- British Journal of Mathematical and Statistical Psychology
- Journal of Multivariate Analysis
- IMS Lecture Notes - Monograph Series
- Scandinavian Journal of Statistics
- Statistical methods and Applications

**Visits:**

- Universities of Brussels and Leuven during November 2001.
- University of Florida during January 2003.
- University of New South Wales, Sydney, 2008–2009, June 2012 and 2013.

**Presentations in statistical meetings:**

- Annual Meeting of the Finnish Statistical Society, May 2001, Vaasa, Finland: On robust canonical analysis.
- Workshop on Nonparametrics, July 2001, Bern, Switzerland: Robust canonical correlation analysis.
- International Conference on Robust Statistics, July 2001, Vorau, Austria: Robust canonical correlation analysis.
- International Conference on Robust Statistics, May 2002, Vancouver, Canada: Sign test of independence between two random vectors.
- Fourth International Conference on Statistical Data Analysis based on the L1-norm and related methods, August 2002, Neuchâtel, Switzerland: Sign test of independence between two random vectors.
- Nonparametric Statistics Research Conference, January 2003, Tallahassee, Florida: Multivariate nonparametric tests of independence (poster presentation).
- International Conference on Robust Statistics, July 2004, Beijing, China: Rank scores tests of multivariate independence.
- 3rd world conference on Computational Statistics & Data Analysis, October 2005, Limassol, Cyprus: Symmetrised M-estimators of scatter and Independent Component Analysis

- International Conference on Robust Statistics, July 2006, Lisbon, Portugal: Invariant multivariate tests of independence based on marginal ranks (poster presentation).
- UNSW statistics seminar series, April 2008, Sydney, Australia: Robust multivariate methods based on spatial sign and rank vectors.
- International Conference on Robust Statistics, June 2011, Valladolid, Spain: Influence functions and efficiencies of  $k$ -step Hettmansperger-Randles estimators for multivariate location and regression (invited speaker).
- 4th International Conference on Computing and Statistics, December 2011, London, UK: Hettmansperger-Randles estimators for multivariate regression (invited speaker).
- Eco-Stats meeting, June 2012, Sydney, Australia: Robust multivariate methods with applications to Blind Source Separation.
- International Conference on Robust Statistics, August 2012, Burlington, US: Principal component analysis based on spatial sign vectors.
- UNSW Statistics Seminars Series, May 2013, Sydney, Australia: Robust multivariate methods with an application to allometry.
- Statistics seminar at UOW, June 2013, Wollongong, Australia, Robust multivariate methods with an application to allometry.

**Other:**

- Co-organizer of the conference “International Conference on Robust Statistics 2005” that was held in Jyväskylä in June 12-17, 2005.