

Curriculum Vitae

Mag.^a Dr.ⁱⁿ Gertraud Malsiner-Walli M.Stat.

Personal Data

Born: August 1, 1965 in Bozen (Italy)
Nationality: Italian
Personal status: Married to Johannes Walli, three children (born in 1993, 1994, 1996)
Affiliation: Institute for Statistics and Economics,
WU Vienna University of Business and Economics,
Welthandelsplatz 1, 1020 Vienna, Austria
Contact: gmalsine@wu.ac.at

Education

06/2014: Dr. rer. soc. oec (corresponding to Ph.D., *with distinction*)
2011-2014: Ph.D. studies in Social and Economic Sciences, Johannes Kepler University of Linz
12/2010: Master in Statistics (M.Stat., *with distinction*)
2005-2010: University studies in Statistics, Johannes Kepler University of Linz
07/1991: Teaching degree for secondary schools
1989-1991: University studies in Philosophy, Psychology and Pedagogy (on teaching profession), University of Salzburg (teaching degree for secondary schools)
07/1989: Mag. rer. nat. (corresponding to M.Sc.)
1984-1989: University studies in Mathematics, University of Innsbruck
1979-1984: High School, Realgymnasium "Raimund von Klebelsberg" in Bozen (Italy)

Career History and Work Experience

- Since 11/2016: Research Assistant in the FWF project "Shrinking and Regularizing Finite Mixture Models" (project leader: Sylvia Frühwirth-Schnatter), Institute of Statistics and Mathematics, WU Vienna University of Economics and Business.
- 2014-2016: Research Assistant in the FWF project "Sparse Bayesian Modelling for Categorical Predictors" (project leader: Helga Wagner) and in the ÖNB project "Advanced methods for Macro-Economic Indicators as Explanatory Variables" (project leader: Bettina Grün), Johannes Kepler University of Linz.
- 2011-2016: Research Assistant and Teaching Assistant at the Department of Applied Statistics, Johannes Kepler University of Linz.
- 2009-2011: Research Assistant at the Department of Applied Statistics, Johannes Kepler University of Linz.
- 2000-2005: Accountant at a medical office.
- 1991-1993: Teacher for Mathematics and Philosophy at the high school "Realgymnasium Hamerlingstraße", Linz.

Main areas of research

- Finite mixture model methodology
- Bayesian model choice and variable selection
- MCMC methods

Academic prizes/Scientific Community Services

(a) Academic prizes/awards received:

- Best poster award at the MBC2 Workshop on Model-Based Clustering and Classification 2014, Catania, Italia.

(b) Peer review activities:

- Computational Statistics and Data Analysis, Statistical Papers, Statistics and Computing, PLOS One, Austrian Journal of Statistics, Advances in Data Analysis and Classification (ADAC), Annals of Applied Statistics, Digital Signal Processing.

(c) Memberhips in scientific organisations:

- Member of the International Society for Bayesian Analysis, Österreichische Statistische Gesellschaft, Statistical Modelling Society.

(d) Community activities:

- Organization of the Research Seminar, Institut of Applied Statistics, Johannes Kepler University Linz, 2012-2016.
- Member of the local organizer team, 30th Workshop on Statistical Modelling, 07.-10.07.2015 Linz.

(e) Media activities:

- Talk: "Wie funktioniert eigentlich eine Wählerstromanalyse?" (22.04.2016), Lange Nacht der Forschung, Johannes Kepler University Linz.
- Talk: "Statistik studieren - Daten analysieren" (23.09.2016), Studien Info Messe SIM 2016, Johannes Kepler University Linz.

Publications

- Frühwirth-Schnatter S., Malsiner-Walli G. From here to infinity - Sparse finite versus Dirichlet process mixtures in model-based clustering. Submitted.
- Malsiner-Walli G., Grün B., Hofmarcher P. Bayesian variable selection in semi-parametric growth regression. Submitted.
- Malsiner-Walli G., Pauger D., Wagner H. Effect fusion using model-based clustering. Statistical Modelling, accepted.
- Rittmannsberger H., Rosenleitner J., Malsiner-Walli G., Werl R., Rittmannsberger B., Yazdi K. Treatment duration with long-acting injectable antipsychotics after in-hospital initiation. Journal of Clinical Psychopharmacology, 37(2), 250–254, 2017.
- Malsiner-Walli G., Frühwirth-Schnatter S., Grün B. Identifying mixtures of mixtures using Bayesian estimation. Journal of Computational and Graphical Statistics, 26(2), 285–295, 2017.

- Pauger D., Malsiner-Walli G., Wagner H. Bayesian effect fusion for categorical predictors with sparse finite mixture prior. *Proceedings of the 31st International Workshop on Statistical Modelling*, 1, 247–252, 2015.
- Malsiner-Walli G., Frühwirth-Schnatter S., Grün B. Model-based clustering based on sparse finite Gaussian mixtures. *Statistics and Computing*, 26(1), 303–324, 2016.
- Grün B., Malsiner-Walli G. Discussion of “How to Find an Appropriate Clustering for Mixed-Type Variables with Application to Socio-Economic Stratification” by Hennig and Liao. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*, 62(3), 350–351, 2013.
- Rittmannsberger H., Malsiner-Walli G. Mood-dependent changes of serum lithium concentration in a rapid cycling patient maintained on stable doses of lithium carbonate. *Bipolar Disorders*, 15(3), 333–337, 2013.
- Rittmannsberger H., Fellingner J., Foff C., Malsiner-Walli G., Zaunmüller T. Deterioration of metabolic parameters during short-term psychiatric inpatient treatment: A prospective naturalistic study. *International Journal of Psychiatry in Clinical Practice*, 16(1), 8–17, 2012.
- Malsiner-Walli G., Wagner H. Comparing Spike and Slab Priors for Bayesian Variable Selection. *Austrian Journal of Statistics*, 40(4), 241–264, 2011.

Theses

- Malsiner-Walli G. Parsimonious Finite Mixture Models, PhD Thesis at the Department of Applied Statistics, Johannes Kepler University Linz, 2014. Advisors: Sylvia Frühwirth-Schnatter and Bettina Grün.
- Malsiner-Walli G. Bayesian Variable Selection in Normal Regression Models, Diplomarbeit at the Department of Applied Statistics, Johannes Kepler University Linz, 2010.
- Malsiner G. Intervallzensierte Daten in der Lebensdaueranalyse, Diplomarbeit at the Institut für Mathematik, Universität Innsbruck, 1989.

Presentations

- Interferring components and clusters in Bayesian finite mixture models (16.12.2017), CM Statistics 2017, Senate House, University of London.
- Interferring components and clusters in Bayesian finite mixture models (18.07.2017, poster presentation), Working Group on Model-Based Clustering, University of Perugia.
- Interferring components and clusters in Bayesian finite mixture models (05.07.2017), Statistics4@Florence, University of Florence.
- Sparse Bayesian Finite Mixtures (18.01.2017), Brown Bag Seminar, Institute of Statistics and Mathematics, WU Vienna University of Economics and Business.
- Effect fusion using sparse finite mixtures (10.12.2016), 10th International Conference on Computational and Financial Econometrics (CFE 2016), Sevilla.
- Sparse Bayesian Finite Mixtures (03.11.2016), Research Seminar of the Department of Statistics, Faculty of Economics and Statistics, Universität Innsbruck.
- Effect fusion using sparse finite mixtures (19.07.2016), Summer Session of the Working Group on Model-Based Clustering, Université Paris Descartes.
- Effect fusion using sparse finite mixtures (15.06.2016, poster presentation), International Society for Bayesian Analysis (ISBA) World Meeting, Forte Village Resort Convention Center Sardinia.
- Bayesian variable selection in semi-parameteric growth regression (30.10.2015, poster presentation), European Seminar on Bayesian Econometrics (ESOB), Study Center Gerzensee.
- Bayesian variable selection in semi-parameteric growth regression (07.07.2015, poster presentation), International Workshop on Statistical Modeling (IWSM), Johannes Kepler Universität Linz.
- Sparse Bayesian modelling for categorical predictors (26.06.2015), 3rd Meeting in Statistics, University of Athens.
- Bayesian variable selection in semi-parametric growth regression (28.05.2015), 3rd WU - Workshop in Applied Econometrics (WUWAETRIX3), WU Vienna University of Economics and Business.

- Identifying mixtures of mixtures using Bayesian estimation (16.07.2014, poster presentation), International Society for Bayesian Analysis (ISBA) World Meeting, Conference Center Cancun.
- Investigating the influence of different prior choices for mixtures of Gaussian mixtures (03.09.2014, poster presentation), Workshop on Model-Based Clustering and Classification, Università di Catania.
- Investigating the influence of different prior choices for mixtures of Gaussian mixtures (19.09.2014, poster presentation), Second Bayesian Young Statisticians Meeting (BAYSM), WU Vienna University of Economics and Business.
- On Prior Choice in Model-Based Clustering (26.07.2013), Summer Session of the Working Group on Model-Based Clustering, University of Bologna.
- Identifying mixtures of mixtures using Bayesian estimation (23.07.2017, poster presentation), Summer Session of the Working Group on Model-Based Clustering, University of Bologna.
- Identifying mixtures of mixtures using Bayesian estimation (17.07.2013), Conference of the International Federation of Classification societies (IFCS) Tilburg University, Tilburg (NL).
- Identifying mixtures of mixtures using Bayesian estimation (06.06.2013), BAYS-Meeting Istituto di Matematica Applicata e Tecnologie Informatiche (IMATI), Milan (I).
- Model-based clustering based on sparse finite Gaussian mixtures (02.12.2012), CSDA International Conference on Computational and Financial Econometrics (CFE 2012), Conference Centre, Oviedo, Spain.
- Model-based clustering based on sparse finite Gaussian mixtures (06.09.2012), Workshop Model Based Clustering and Classification, Dipartimento di Economia e Impresa, Università di Catania, Italy.
- Bayesian Selection in Normal Regression Models (04.02.2011, poster presentation), Workshop on Bayesian Inference for Latent Gaussian Models with Applications, University of Zürich.

- Bayesian Selection in Normal Regression Models (30.10.2010), 15th Young Statisticians Meeting, Vorau, Austria.
- Bayesian Variable Selection in Normal Regression Models (21.10.2010), Österreichische Statistiktage 2010. Statistik Austria, Wien.
- Bayesian Variable Selection in Normal Regression Models (05.06.2010, poster presentation), Ninth Valencia International Meeting on Bayesian Statistics 2010, Benidorm Alicante.