

## Curriculum Vitae **Noventa Stefano**

Current Position Tenured Researcher, University of Tübingen, Methods Center

Principal duties

- Research in Psychometrics, Mathematical Psychology, and Psychophysics
- Data analysis and statistical consulting
- Teaching: Multilevel models, Multivariate statistics, Item response Theory, Knowledge space theory, Psychometrics, Mathematical Psychology, R programming

**PI** DFG funded grant "On a generalization of the local independence assumption in item response theory"  
Period: 06.2021-06.2024

### Postdoc Experiences

**Dates** 15.12.2016 – 15.10.2019

Institution University of Tübingen, Methods Center

Principal duties

- Theoretical and computational investigation in the fields of latent variable models, Item response theory, Knowledge space theory, structural equation models,
- Data analysis
- Teaching: Multilevel models, Multivariate statistics, Item response Theory, Knowledge space theory

**Dates** 01.09.2012 – 31.08.2016

Institution University of Verona, Assessment Center

Principal duties

- Application of mixed effects models to Education, Marketing, and Entrepreneurship
- Development of algorithms for the software STAGE of the University of Verona
- Data analysis and collaboration to scientific and non-scientific projects of the Center

**Dates** 01.05.2011 – 30.04.2012

Institution University of Padova, Department of General Psychology

Principal duties

- Applications of the methods of Statistical Physics to Mathematical Psychology and Psychometrics
- Data analysis in Social sciences and Marketing and Development of the R package rAverage.
- Teaching assistant for the course "Methods of Multivariate Analysis"

**Other work experiences** Employed work: development of web-based software for datawarehousing, Csio Srl, Padova, 12.2006 – 03.2007  
Part-time work with data entry and secretary tasks, Servizi Contabili Sas, Padova, 09.1999 – 07.2002

### Academic Education

**Dates** 01.01.2008 – 01.01.2011

Qualification awarded **Ph.D. in Cognitive Sciences**

Institution University of Padova, Department of Social and Developmental Psychology

Supervisors Prof. Giulio Vidotto, Department of General Psychology, University of Padova  
Prof. Roberto Dell'Acqua, Department of Social and Developmental Psychology, University of Padova

Topic of the Thesis Mathematical Psychology, Psychophysics

Title of the Thesis A variational approach to Perception and Psychophysics

Thesis defense 28.03.11

Principal duties

- Applications of the methods of Variational Calculus to Psychophysics and Mathematical Psychology
- Data analysis in Social sciences and Marketing and Development of the R package rAverage.
- Teaching assistant for the course "Methods of Multivariate Analysis"
- International Visiting Graduate Student at the University of Toronto, Institute of Biomaterials and Biomedical Engineering. Supervisor: Norwich, Kenneth H. (7 months)

**Dates** 01.09.1999 – 23.03.2006

Qualification awarded **M. Sc. in Physics**

Institution University of Padova, Department of Physics

Topic of the Thesis Statistical Mechanics – Biophysics

Score and Thesis defense 110/110, 23/03/06

### Personal skills

Technical Skills OS: DOS, Win 95-98, NT/2000/XP, 7, 8, 10, Ubuntu; Languages and Software: Office Automation, R, MATLAB, LaTeX, C, C++, VB, SQL, HTML, E-Prime, SPSS, PSPP, PHP

Mother tongue Italian

Other languages **Reading skills**

English C1

German B2

**Writing skills**

C1

B2

**Verbal skills**

C1

B2

## List of selected Publications

- Vicovaro, M., Noventa, S., Ghiani, A., Mena, F., Battaglini, L. (2021). Evidence of weight-based representations of gravitational motion. *Journal of Experimental Psychology Human Perception & Performance*. DOI: 10.1037/xhp0000956
- Noventa, S., Heller, J., Stefanutti, L. (2021). Some considerations on the factorization of state probabilities in knowledge structures. *Journal of Mathematical Psychology*, 102, DOI: 10.1016/j.jmp.2021.102542
- Heck\*, D.W., Noventa\*, S. (2020). Representing Probabilistic Models of Knowledge Space Theory by Multinomial Processing Tree Models. *Journal of Mathematical Psychology*, 96. DOI: 10.1016/j.jmp.2020.102329. \*shared co-first authorship
- Bottesi, G., Noventa, S., Freeston, M., Ghisi, M. (2019). Seeking certainty about Intolerance of Uncertainty: addressing old and new issues through the Intolerance of Uncertainty Scale-Revised. *Plos One*.
- Vicovaro, M., Noventa, S., & Battaglini, L. (2019). Intuitive physics of gravitational motion as shown by perceptual judgment and prediction-motion tasks. *Acta Psychologica*, 194, 51-62.
- Noventa, S., Spoto, A., Heller, J., Kelava, A. (2018). On a generalization of local independence in item response theory based on knowledge space theory. *Psychometrika*. DOI: 10.1007/s11336-018-9645-6
- Battaglini, L., Noventa, S., Casco, L. (2017). Anodal and cathodal electrical stimulation over V5 improves motion perception by signal enhancement and noise reduction. *Brain Stimulation*, 10(4), 773-779.
- Scalco, A., Noventa, S., Sartori, R., Ceschi, A. (2017). Predicting organic food consumption: A meta-analytic structural equation model based on the theory of planned behavior. *Appetite*, 112(1), 235-248.
- Gronchi G, Raglianti M, Noventa S, Lazzeri A and Guazzini A (2016). Modeling the overalternating bias with an asymmetric entropy measure. *Frontiers in Psychology*. 7:1027. doi:10.3389/fpsyg.2016.01027
- Ardolino, P., Noventa, S.\*, Formicuzzi, M., Cubico, S., Favretto, G. (2016) Multiple integrated exams: an observational study of different academic curricula based on a Business Administration assessment. *Higher Education*, 71(1), 59-79. DOI 10.1007/s10734-015-9888-4 \* corresponding author
- Noventa, S., Anselmi, P., Tagliabue, M., Vidotto, G. (2014). Functional measurement in consumer evaluation of market products. *Psicológica*, 35, 527-541.
- Noventa, S., Stefanutti, L., Vidotto, G. (2014). An analysis of item response Theory and Rasch models based on the most probable distribution method. *Psychometrika*, 79(3), 377-402.
- Noventa, S., Stefanutti, L., Vidotto, G. (2014). A derivation of the Polytomous Rasch model based on the most probable distribution method. *The Spanish Journal of Psychology*, 17, e84, 1-8.
- Noventa, S., Vidotto, G. (2012). A variational approach to behavioral and neuroelectrical laws. *Biological Cybernetics*, 106(6-7), 339-358.