



## Sacha Epskamp

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Sex: Male

Nationality: Dutch

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### INTRODUCTION

I am an assistant professor at the University of Amsterdam. My research involves modeling psychological processes as complex dynamical systems. I have developed novel methodologies and implemented them in freely available software packages, now routinely used in psychological research and clinical practice. I also work on open science, reproducibility, psychometrics, and time-series modeling, and teach graduate level courses on advanced statistical methods.

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### WORK EXPERIENCE

- Aug 2016 – present** Assistant professor, University of Amsterdam, Department of Psychological Methods  
– Graduate level teaching (statistics, dynamical systems)
- 2013 – present** Software developer, JASP statistical software  
– Development of an open-source statistical analysis program
- Feb 2015 – May 2015** Statistical consultant, Centre for Open Science  
– Head of a team for re-analysis of replication studies
- Oct 2013 – Aug 2015** Psychometrician and data scientist, Oefenweb.nl  
– Maintenance and development of an adaptive online learning platform for primary school children

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### EDUCATION AND TRAINING

- 2012-2016** PhD Research Methodology and Quantitative Methods Psychology  
University of Amsterdam  
– Dynamical systems, network models, software development, psychometrics
- 2010-2012** MSc Research Methodology and Quantitative Methods Psychology  
University of Amsterdam

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### SKILLS

- Job-related skills** Programming: Proficient in R, LaTeX, and markdown; familiar with C++, C, Python, and SQL  
Statistical methods: network analysis, graph estimation, time-series analysis, mathematical statistics, calculus, linear algebra, computational methods, item response theory, structural equation modeling, multivariate ANOVA, multilevel analysis, Bayesian modeling and inference, optimization stochastic simulations (e.g. metropolis and Gibbs samplers), latent class analysis, generalized linear modeling, generalized latent variable models, hidden Markov / regime switching models, regularization methods, information theory, statistical learning
- Software development** Developed the following statistical analysis and visualization packages in R: qgraph, semPlot, IsingSampler, graphicalVAR, mlVAR, bootnet, elasticlsing, lvnet, IsingFit, statcheck. Developed a GUI for statistical software JASP
- Teaching** R, LaTeX, network analysis, network modeling, advanced statistics, factor analysis, structural equation modeling  
Invited workshops and talks: FAINOR university Brazil, University of Zurich, Ghent University, Utrecht University, Nanyang Technological University, National University of Singapore, University of Edinburgh, University of Cambridge, University of Milano-Bicocca
- Languages** Dutch (fluent), English (fluent), Romanian (beginner)

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### ADDITIONAL INFORMATION

- Publications** 23 published journal articles and book chapters ([sachaepskamp.com/publications](http://sachaepskamp.com/publications))
- Honors and awards** NWO research talent grant, IMPS travel grant, Leamer-Rosenthal Prize for Open Social Science
- Memberships / organizational experience** Founder of Psychological Dynamics, an active discussion group on dynamical systems in psychology  
Co-organizer of Psychoco 2015, an annual conference in psychometrics  
Co-organizer of a bi-annual conference for the graduate school of psychometrics  
Member of the editorial board of the European Journal of Personality