

# Sonja D. Winter

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## CONTACT

### INFORMATION

University of California, Merced  
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Website: —

## EDUCATION

### UNIVERSITY OF CALIFORNIA, MERCED

Doctoral (Ph.D.) Student, Psychological Sciences, 2016-present

- Advisor: Assistant Professor Sarah Depaoli
- Area of Study: Quantitative Psychology

### UTRECHT UNIVERSITY, THE NETHERLANDS

M.Sc. (Cum Laude), Psychology, 2013

- Thesis Topic: *What matters? The role of cognitive competence and affective beliefs in educational achievement during adolescence.*
- Advisor: Professor Jan Boom
- Area of Study: Developmental Psychology

B.Sc. (with honours), Psychology, 2011

- Thesis Topic: *Differential susceptibility? Interaction of the DRD4-7R polymorphism and parenting practices on aggressive and prosocial behaviour.*
- Advisor: Professor Geertjan Overbeek
- Area of Study: Developmental Psychology

## AWARDS

### Journals:

- Article of the Year Award from the Communication Methods and Measures Journal, 2015
  - Title of article: *Possible solution to publication bias through bayesian statistics, including proper null hypothesis testing.*

### University of California, Merced:

- Psychology Graduate Group Recruitment Fellowship, 2016

- PUBLICATIONS van de Schoot, R., Sijbrandij, M., Depaoli, S., **Winter, S. D.**, & van Loey, N. (under review). Detecting overlooked posttraumatic stress trajectories by integrating background knowledge into Bayesian Latent Growth Mixture Models.
- van de Schoot, R., **Winter, S. D.**, Ryan, O., Zondervan-Zwijnenburg, M. & Depaoli, S. (in press). A systematic review of Bayesian papers in psychology: The last 25 years. *Psychological Methods*.
- van de Schoot, R., Sijbrandij, M., **Winter, S. D.**, Depaoli, S., & Vermunt, J. K. (2016). The GRoLTS-Checklist: Guidelines for reporting on latent trajectory studies. *Structural Equation Modeling: A Multidisciplinary Journal*, 1-17. [online first]
- Konijn, E. A., van der Schoot, R., **Winter, S. D.**, & Ferguson, C. J. (2015). Possible solution to publication bias through Bayesian statistics, including proper null hypothesis testing. *Communication Methods and Measures*, 9(4), 280-302.

- REVIEW EXPERIENCE JOURNAL REVIEWS (Ad hoc or under Advisor supervision), 2016-present
- Psychological Methods
  - The European Journal of Psychotraumatology (special issue on Bayesian Statistics).

- PRESENTATION OF RESEARCH \* denotes presenter
1. Depaoli, S.\*, and **Winter, S. D.\*** (2016, November). *A Systematic Review of Bayesian Papers in Psychology: The Last 25 Years*. Talk presented at The University of California, Merced Quantitative Psychology Colloquium, Merced, CA.

- TEACHING EXPERIENCE UNIVERSITY OF CALIFORNIA, MERCED
- Graduate Teaching Assistant, various courses* Fall 2016-present
- Graduate Teaching Assistant for PSY 015: Research Methods in Psychology, lower-division undergraduate Psychology course
    - Terms: *Fall 2016*
    - Held office hours and graded assignments
    - This course provided a general introduction to research methodology in psychology

STATISTICAL  
PROGRAMS

The various programs I am skilled with are:

- Editing/Professional Writing
  - Microsoft Word
  - L<sup>A</sup>T<sub>E</sub>X
  - Markdown
  - HTML, css, PHP
  - knitr (R package)
- Statistical Modeling
  - *Mplus*
  - HLM
  - Numerous R packages
- Statistical: General Purpose
  - R/RStudio for website and package development,
- Statistical: Bayesian Methods
  - database management, data manipulation, etc.
  - SPSS
  - Python
  - SAS (ltd. knowledge)
  - Matlab (ltd. knowledge)
  - *Mplus*
  - OpenBUGS
  - WinBUGS
  - JAGS
  - Stan
  - Base R
  - Numerous R packages

PREVIOUS  
POSITIONS HELD  
(PRIOR TO START  
PH.D. STUDIES)

## WINTER STATISTICS

*Founder*

Jan 2014-June 2016

- Statistical consultancy and support with executing research and analyses
  - *Duties:* Collaborated with researchers and companies to answer their research questions with the data available; Gave introduction to Statistics workshops at conferences or within companies; Clients included: Free University Amsterdam, Elastic (USA), Lund University (Sweden), Rutgers Foundation.

## UTRECHT UNIVERSITY

*Researcher*

Jan 2014-June 2016

- Department of Methodology and Statistics for the Behavioral and Social Sciences
  - *Lab Coordinator:* Rens van de Schoot, Ph.D.
  - *Duties:* Gave support at each step of the research cycle (literature review, data collection and management, analysis, writing final article or report); Organized meetings, events, and conferences. Communicated with guests and speakers; Put forth new ideas for future research.

*Research Assistant*

Dec 2012-Jul 2013

- Department of Pedagogics
- *Lab Coordinator:* Paul Leleman, Ph.D.
- *Duties:* Assisted team with data management and preliminary analysis of the data of longitudinal PRE-COOL study.

REFERENCES

SARAH DEPAOLI, Ph.D. *academic advisor*  
Assistant Professor, Quantitative Psychology  
School of Social Sciences, Humanities and Arts  
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