

Sonja D. Winter

CONTACT

INFORMATION

University of California, Merced
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EDUCATION

UNIVERSITY OF CALIFORNIA, MERCED

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

- Advisor: Associate 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:

- Psychological Sciences Graduate Group Recruitment Fellowship, 2016
- Psychological Sciences Summer Support Fellowship, 2017

- PUBLICATIONS Hoorn, J. F., & **Winter, S. D.** (in press). Here comes the bad news: Doctor robot taking over. *International Journal of Social Robotics*.
- van de Schoot, R., Sijbrandij, M., Depaoli, S., **Winter, S. D.**, & van Loey, N. (in press). Detecting overlooked posttraumatic stress trajectories by integrating background knowledge into Bayesian Latent Growth Mixture Models. *Multivariate Behavioral Research*.
- van de Schoot, R., Sijbrandij, M., **Winter, S. D.**, Depaoli, S., & Vermunt, J. K. (2017). The GRoLTS-Checklist: Guidelines for reporting on latent trajectory studies. *Structural Equation Modeling: A Multidisciplinary Journal*, *24*(3), 451-467.
- van de Schoot, R., **Winter, S. D.**, Ryan, O., Zondervan-Zwijnenburg, M. & Depaoli, S. (2017). A systematic review of Bayesian papers in psychology: The last 25 years. *Psychological Methods*, *22*(2), 217-239.
- 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. **Winter, S. D.*** (2017, April). *Bayesian Approximate Measurement Invariance for Second-Order Latent Growth Models*. Talk presented at The University of California, Merced as Invited Department Talk, Merced, CA.
2. **Winter, S. D.*** and Depaoli S. (2017, March). *Bayesian Approximate Measurement Invariance As A Viable Alternative to Frequentist Methods*. Poster presented at The University of California, Merced Psychology Symposium, Merced, CA.
3. 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 010: Statistics in Psychology, lower-division undergraduate Psychology course
 - Terms: *Fall 2017*
 - Taught two lab sections, held office hours, created lab assessments, graded assignments
 - This course provided a general introduction to basic descriptive and inferential statistics in the psychological sciences
- Graduate Teaching Assistant for PSY 105: Advanced Research Methods in Psychology, upper-division undergraduate Psychology course
 - Terms: *Spring 2017*
 - Held office hours and created grading rubrics and graded assignments
 - This course provided an advanced overview of methodological approaches in psychological research
- 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
 - \LaTeX
 - 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
 - *Mplus*
 - OpenBUGS
 - WinBUGS
 - JAGS
 - Stan
 - Base R
 - Numerous R packages
- database management, data manipulation, etc.
 - SPSS
 - Python
 - SAS (ltd. knowledge)
 - Matlab (ltd. knowledge)

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-July 2013

- Department of Pedagogics
 - *Lab Coordinator:* Paul Leseman, 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*
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