Curriculum Vitae Wilfried Cools

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Leuven, September 1st, 2015

August 1974, Belgium

RESEARCH · KU Leuven

Post Doc @ Methodology of Educational Sciences Research Group (MESRG) — 18.05.15 - 27.07.15

Evaluation of bootstrap procedures for Meta-Analysis on Single Case data
Development of User Interface for the analysis of Single Case data

Post Doc @ Centre for Educational Effectiveness and Evaluation (CE&O) — multiple contracts

Statistical analyses of test data on mathematics and languages

13.10.13 - 20.12.13
19.05.14 - 08.06.14
15.12.14 - 31.12.14

Post Doc @ Interactive Technology (ITEC) — multiple contracts

Adaptive Learning Environments for Second Language Learning: Methodology and Statistics — 01.06.10 - 31.10.11
Specific contributions (internal[1] and external[2]) — 01.02.12 - 14.02.12

Consultancy on statistics and methodology [1/2]	Managing exercise sessions in statistics [1]	10.12.12 - 15.03.13
Support in data analyses –and management [1/2]	Leading and assisting workshops [2]	05.06.13 - 04.09.13

Post Doc @ Research Group Quantitative Psychology and Individual Differences (OKP) — 01.11.08 - 31.12.09

Modeling the inter individually different evolution of naturalistically observed emotions: a dynamic systems approach

PhD student @ Methodology of Educational Sciences Research Group (MESRG) — 01.10.04 - 30.09.08

Study of Multilevel Design Efficiency using simulation (*W. Van den Noortgate & P. Onghena*) — *defense* 06/10/08

Research Fellow @ Centre for Sociology of Education — 01.01.00 - 31.08.01

Survey research on the perceived effectiveness of high-school mergers by the teaching staff.

CONSULTING in Methodology and Statistics

Development of an automatic scoring tool — 05.12
Development of procedures for representing and statistically analyzing data — 06.12
Data Analyses for scale development and IRT item calibration — 02.12

STUDY · KU Leuven

Phd. in **Methodology of Educational Research**		04-08
Master in **Statistics**	Social & Behavioral Statistics	** 01-03
Master in **Artificial Intelligence**	Cognitive Sciences	98-99
Licentiate in **Psychology**	Theoretical Psychology	93-98
with **Teacher Training**		

SKILLS

Statistical Software : R / SAS, with additional experience in Statistica & MLwiN
Data Management: R, with first experience in SQL
Programming : R, with first experience in Java, Python & a general theoretical background
Languages : Dutch, English (expert), French (intermediate), Spanish & German (basic)

** 1 year program of Statistics spread over two years, combined with traveling.
Note: gaps are due to traveling / unemployment

OUTPUT

Articles:

Cools, W., Van den Noortgate, W., & Onghena, P. (2009). Design efficiency for imbalanced multilevel data. *Behavior Research Methods, 41*, pp. 192-203.   DOI: 10.3758/BRM.41.1.192

Cools, W., De Fraine, B., Van den Noortgate, W., & Onghena, P. (2009). Multilevel design efficiency in educational effectiveness research. *School effectiveness and school improvement, 3*, 357-373. DOI: 10.1080/09243450902850176

Cools, W., Van den Noortgate, W., & Onghena, P. (2008). ML-DEs: Multilevel design efficiency using simulation. *Behavior Research Methods, 40*, pp. 236-249. DOI: 10.3758/BRM.40.1.236

Kadengye, D.T., Cools, W., Ceulemans, E., & Van den Noortgate, W. (2011). Simple Imputation Methods versus Direct Likelihood Analysis for Missing Item Scores in Multilevel Educational Data. *Behavior Research Methods, 44*, pp. 516-531, DOI: 10.3758/s13428-011-0157-x.

Tool:

Cools, W., Van den Noortgate, W., & Onghena, P. (2006). *ML-DEs: MultiLevel Design Efficiency using simulation*. [http://ppw.kuleuven.be/cmes/ML-DEs.html] (scripts and manual).

Presentations:

Cools, W., Tuerlinckx, F., Kuppens, P. (2009, July). *Modeling the individual specific oscillatory evolution of emotion in continuous time*. Paper presented at the 9th International Meeting of the Psychometric Society, Cambridge, United Kingdom.

Cools, W., Van den Noortgate, W., & Onghena, P. (2007, August). *Power and Accuracy in Multilevel Designs: An Application to Educational Research.* Paper presented at the 56th meeting of the International Statistical Institute, Lisbon, Portugal.

Cools, W., Van den Noortgate, W., & Onghena, P. (2007, October). *Design efficiency in estimation and statistical testing of multilevel variance parameters: A simulation study.* Paper presented at the 15th meeting of the Belgian Statistical Society, Antwerp, Belgium.

Cools, W., & Van den Noortgate, W. (2008, July). *Multilevel Design Efficiency using Simulation: Two Exemplary Studies.* Paper presented at the 3rd European Congress of Methodology, Oviedo, Spain.

Van den Noortgate, W., & Cools, W. (2008, July). *Sample-size requirements for a three-level meta-analysis.* Paper presented at the 3th European Congress of Methodology, Oviedo, Spain.

Van den Noortgate, W., & Cools, W. (2009, May). *Three level meta-analyses*. Paper presented at The Campbell Collaboration Colloquium, Oslo, Norway.

Poster:

Cools, W., Desmet, P., & Van den Noortgate, W. (2012, June). *Learning to Conjugate Verbs in a Second Language, how to analyze it*. Poster presented at the Leuven Statistics Day, Leuven, Belgium.

External Workshops:

Cools, W. & Van den Noortgate W. (2012, May) *Statistics for testing*. A four day workshop on a wide variety of methodological and statistical issues related to the testing of ability.

Van den Noortgate W. & Cools, W. (2011, June) *The use of R for doing meta analyses*. Campbell workshop in KU Leuven.