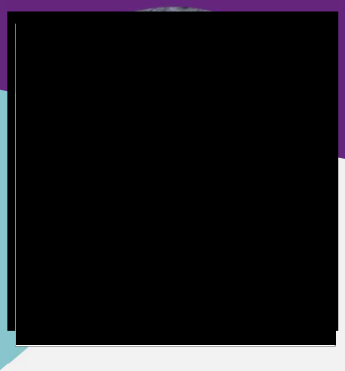
Angela Verschoor



Contact
[redacted]

[redacted]

Date of birth
[redacted]

Nationality
[redacted]

Tax code
[redacted]

Language skills
Dutch – native
English – excellent
German – excellent
Italian – moderate

Awards and Accreditations
Fellow of the AEA – Europe

Lifetime Contribution Award of the e-Assessment Association

Memberships
EARLI
NCME
IACAT

Doorwerth, 19 Sept. 2024

[redacted]

PROFESSIONAL SUMMARY

Experience with several research topics in psychometrics and artificial intelligence. Specialization Automated Test Assembly methods, Computerized Adaptive Testing and Genetic Algorithms. One of the few persons in the field able not only to perform research, but also to develop software to implement the resulting models.
Present research topics comprise automated test assembly, calibration design, computerized adaptive testing, multistage testing, online calibration and automated scoring of constructed response items.

EDUCATION

2000 - 2007
Ph.D. Behavioural Sciences at Twente University, Enschede, Netherlands
1980 - 1987
M.Sc. Applied Mathematics at Twente University, Enschede, Netherlands

WORK EXPERIENCE: SELECTED CONSULTANCY PROJECTS

2017 – present
CBR, Netherlands: Key psychometric consultant responsible for automated test assembly for the nationwide Theory Test (part of the exams for driving licenses), including software development

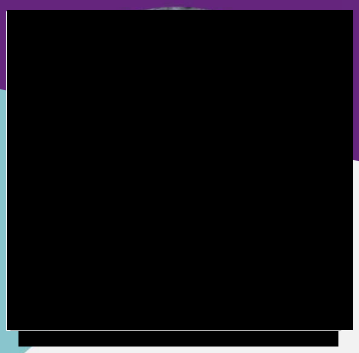
2014 – present
NIS, Kazachstan: Key psychometric consultant for automated test assembly for the nationwide admission tests for secondary education

2017 – 2024
INVALSI, Italy: Key psychometric consultant responsible for automated test assembly for National Assessment in Grades 8, 10 and 13

2016 – 2020
Welsh Government: Psychometric consultant responsible for the CAT algorithm for National Assessment in Grades 2 to 9, its software development and implementation; member of the expert advisory group

2013 – 2021
IBE, Switzerland: Key psychometric consultant responsible for development and implementation of adaptive testing algorithms for National Assessment; quality assurance of a battery of formative assessments

2011 – 2014
JAMB, Nigeria: Key psychometric consultant responsible for automated test assembly for nationwide University entrance examinations



SELECTED PUBLICATIONS

Helbling, L., Berger, S. & Verschoor, A. (2021), Flexibility at the price of volatility: Concurrent calibration in multistage tests in practice using a 2PL model, *Frontiers in Education,* doi: 10.3389/feduc.2021.679864.

Roelofs, E., Emons, W. & Verschoor, A. (2021), Exploring task features that predict psychometric quality of test items: the case for the Dutch driving theory exam. *International Journal of Testing, 21,* 80-104, doi: 10.1080/15305058.2021.1916506.

Berger, S., Verschoor, A., Eggen, T. & Moser, U., (2019). Development and validation of a vertical scale for formative assessment in mathematics, *Frontiers in Education,* doi:10.3389/feduc.2019.00103.

Verschoor, A., Berger, S., Moser, U. & Kleintjes, F. (2019), On-the-fly calibration in computerized adaptive testing, in: B. Veldkamp & C. Sluijter (Eds), *Theoretical and Practical Advances in Computer-based Educational Measurement* (pp. 307-323). Cham: Springer Nature, doi:10.1007/978-3-030-18480-3_16.

Veldkamp, B. & Verschoor, A. (2019), Robust computerized adaptive testing, in: B. Veldkamp & C. Sluijter (Eds), *Theoretical and Practical Advances in Computer-based Educational Measurement* (pp. 291-305). Cham: Springer Nature, doi:10.1007/978-3-030-18480-3_15.

Berger, S., Verschoor, A., Eggen, T. & Moser, U., (2019). Efficiency of Targeted Multistage Calibration Designs under Practical Constraints: A Simulation Study. *Journal of Educational Measurement, 56* 121-146, doi:10.1111/jedm.12203.

Verschoor, A. & Eggen, T. (2014). Optimizing the test assembly and routing for multistage testing, in: D. Yan, A. von Davier and C. Lewis (Eds), *Computerized Multistage Testing, Theory and Practice*. (pp.135-150), Boca Raton: Chapman and Hall.

Verschoor, A. & Straetmans, G. (2010). MATHCAT: A flexible testing system in Mathematics education for adults, in: W. Van der Linden and C. Glas (Eds), *Elements of Adaptive Testing* (pp.137-149). New York: Springer Verlag.

Veldkamp, B., Verschoor, A., & Eggen, T. (2010). A multiple objective test assembly approach for exposure control problems in Computerized Adaptive Testing. *Psicologica, 31*, 335-355.

Finkelman, M., Wonsuk, K., Roussos, L. & Verschoor, A. (2010). A Binary Programming Approach to Automated Test Assembly for Cognitive Diagnosis Models. *Applied Psychological Measurement, 34*, 310-326.

Eggen, T. & Verschoor, A. (2006) Optimal testing with easy or difficult items in computerized adaptive testing, *Applied Psychological Measurement, 30,* 379-393.