

## **CURRICULUM VITAE**

### **DR. SEBASTIAAN DE KLERK**

#### **PERSONAL DETAILS**

Sebastiaan de Klerk

Born on July 17<sup>th</sup> 1986, Haarlem, The Netherlands; Male, Dutch nationality

PhD in Educational Measurement, January 2016, University of Twente, The Netherlands

M.Sc. (Res) in Psychology, December 2010, University of Amsterdam, The Netherlands

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#### **SUMMARY**

Sebastiaan de Klerk was born on July 17, 1986 in Haarlem, the Netherlands. He completed his high school (VWO) at College Hageveld in Heemstede, the Netherlands. After finishing his VWO, he studied psychology at the University of Amsterdam. During his bachelor he started to focus on work and organizational psychology, which he continued doing in the research master. He completed his research master in December 2010. Besides majoring in work and organizational psychology, he also minored in social psychology. His internship in the research master was concerned with scientific research on the influence of high-power group collaboration on group members' individual negotiation style and individual factors.

In December 2011, he started with a four year PhD project at eX:plain and the Research Center for Examinations and Certification (a collaboration between the University of Twente and the National Institute for Test Development (Cito)), under supervision of prof. dr. ir. Theo J.H.M. Eggen and prof. dr. ir. Bernard P. Veldkamp. The PhD project focused on the efficiency and effectiveness of the use of multimedia-based performance assessment as a new way of performance assessment in Dutch vocational education and training. Currently, Sebastiaan works as a scientific advisor and assessment

expert at eX:plain, a foundation concerned with improving assessment practice in Dutch vocational and adult education.

## EDUCATION

- 2011 – 2016** *PhD in Educational Measurement*
- 2008 - 2010** *Master of Science by Research in Psychology*
- 2005 - 2008** *Bachelor of Science in Psychology*
- 1998 - 2004** *High school (Preparatory University Education (VWO))*

## PUBLICATIONS

- De Klerk, S. (2016). *Multimedia-based performance assessment in Dutch vocational education* (Doctoral dissertation). Enschede: Ipskamp Drukkers.
- De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (2016). A methodology for applying students' interactive task performance scores from a multimedia-based performance assessment in a Bayesian network. *Computers in Human Behavior*, 60, 264-279.
- De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (2015). Psychometric analysis of the performance data of simulation-based assessment: A systematic review and a Bayesian network example. *Computers & Education*, 85, 23-34.
- De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (2015). The psychometric evaluation of a summative multimedia-based performance assessment. In E. Ras and D. Joosten-Ten Brinke (Eds.). *Computer Assisted Assessment. Research into E-Assessment* (pp. 1-11). Dordrecht: Springer International Publishing.
- De Klerk, S., van Dijk, P., & van den Berg, L. (2015). Voordelen en uitdagingen voor toetsing in computersimulaties (*Advantages and challenges for assessment in computer-based simulations*). *Examens*, 11(2), 11-17.
- De Klerk, S., Eggen, T.J.H.M., & Veldkamp, B.P. (2014). A blending of computer-based assessment and performance-based assessment: Multimedia-based Performance Assessment (MBPA). The introduction of a new method of assessment in Dutch Vocational Education and Training (VET). *CADMO*, 22(1), 39-56.
- De Klerk, S. (2012). An overview of innovative computer-based testing. in T.J.H.M. Eggen and B.P. Veldkamp (Eds.). *Psychometrics in Practice at RCEC*, Enschede: RCEC, pp. 137-150.

De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (in press). A framework for designing and developing multimedia-based performance assessment in vocational education. *Educational Technology, Research and Development*.

De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (submitted). The design, development, and evaluation of a summative multimedia-based performance assessment for credentialing confined space guards. Manuscript submitted for publication.

## CAREER

**2016 - now** Scientific advisor at eX:plain

**2011 – 2016** PhD Student at eX:plain and the Research Center for Examinations and Certification (a collaboration between the University of Twente and the National Institute for Test Development (Cito))

## CONFERENCE CONTRIBUTIONS, PRESENTATIONS, AND LECTURES

De Klerk, S. (2012, March). *The introduction of multimedia-based performance assessment in Dutch vocational education*. Presentation at the Foundation Cooperation for Safety quality assurance committee, Breda, the Netherlands.

De Klerk, S. (2012, July). *The introduction of multimedia-based performance assessment in Dutch vocational education*. Presentation at eX:plain working visit at Employment Technologies Corporation, Winter Park, FL.

De Klerk, S., Boonman, K., & Wagemakers, W. (2012, October). *The Foundation Cooperation for Safety opts for computer-based assessment*. Interview given for VCA Actueel, Breda, the Netherlands.

De Klerk, S., & Boonman, K. (2012, October). *Innovative test items in computer-based testing*. Presentation at conference of the Safety, Health and Environment Checklist Contractors, Rotterdam, the Netherlands.

De Klerk, S., & Van den Berg, L. (2013, April). *The future of performance-based assessment*. Presentation at the eX:plain performance-based assessment rater's day, Amersfoort, the Netherlands.

De Klerk, S., & Kloppenburg, M. (2013, May). *Two day introductory course on assessment and psychometrics*. Course given at eX:plain, Amersfoort, the Netherlands.

- De Klerk, S. (2013, May). *The use of multimedia in assessment*. Presentation at the Dutch council for trainers and educators, Utrecht, the Netherlands.
- De Klerk, S., Veldkamp, B.P., & Van Dijk, P. (2013, May and June). *Qualitative assessment during work placement: Pitfalls and opportunities*. Presentation at the conference of the Dutch Vocational Education Service Institution, Utrecht, the Netherlands.
- De Klerk, S. Veldkamp, B.P., & Eggen, T.J.H.M. (2013, June). *A framework for designing and developing multimedia-based performance assessment*. Poster presented at the conference of the Dutch Interuniversity Graduate School of Psychometrics and Sociometrics, Groningen, the Netherlands.
- De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (2013, October). *A framework for designing and developing multimedia-based performance assessment*. Paper presented at the conference of the International Association for Educational Assessment, Tel Aviv, Israel.
- De Klerk, S. (2013, November). *Multimedia-based performance assessment*. Experimental workshop given at the conference of the Dutch Association for Assessment, Nunspeet, the Netherlands.
- De Klerk, S., & Van Dijk, P. (2014, June). *Challenges and solutions for performance-based assessment: The use of a multimedia-based performance assessment for credentialing confined space guards*. Presentation at the conference of OnTrac, Ede, the Netherlands.
- De Klerk, S., & Veldkamp, B.P. (2014, October). *Assessment: Cycle of testing and innovations in testing* (Lecture, Educational assessment, Pre-master Educational Science and Technology), University of Twente, Enschede, the Netherlands.
- De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (2014, November). *Psychometric analysis of the performance data of simulation-based assessment: A systematic review and a Bayesian network example*. Paper presented at the conference of the European Association for Educational Assessment, Tallinn, Estonia.
- De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (2014, November). *Psychometric analysis of the performance data of simulation-based assessment: A systematic review and a Bayesian network example*. Paper presented at the conference of the Research Center for Examinations and Certification, Enschede, the Netherlands.
- De Klerk, S. (2014, November). *A summative multimedia-based performance assessment for credentialing confined space guards*. Presentation at a working visit of the Dutch Association for Assessment, Rotterdam, the Netherlands.

De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (2015, June). *The psychometric evaluation of a summative multimedia-based performance assessment for credentialing confined space guards*. Paper presented at the Computer Assisted Assessment conference. Zeist, the Netherlands.

De Klerk, S., Veldkamp, B.P., & Eggen, T.J.H.M. (2015, November). *The design, development, and validation of a multimedia-based performance assessment for credentialing confined space guards*. Paper presented at the conference of the European Association for Educational Assessment, Glasgow, Scotland.

De Klerk, S. (2016, March). *Educational assessment: multimedia-based performance assessment in vocational education* (Lecture, Educational assessment, Master Educational Science and Technology), University of Twente, Enschede, the Netherlands.