

MARTIN G. SCHWICHOW

schwichow@scientific-reasoning.com

EDUCATION

Nov. 2015	PhD in physics education at the Christian-Albrecht's university, Kiel, Germany
Jan. 2012-Nov.2015	PhD Student at the Leibniz-Institute for Science and Mathematics Education (IPN-Kiel) University of Kiel; Kiel, Germany
Oct. 2011	First state examination with the degree of a teacher for German secondary schools. Subjects: Physics and Geography
Extracurricular courses	Economics, Psychology, Politics, Turkish
Oct. 2006-Oct. 2011	Studies of Physics, Geography and Educational Science at the Philipps-University Marburg, Germany
2005	Final secondary school examinations,

PROFESSIONAL HISTORY

Since Jan. 2012	Scientific assistant in the department for physics education at the Leibniz-Institute for Science and Mathematics Education (IPN-Kiel) University of Kiel; Kiel, Germany
Sep. 2013-Dec. 2013	Visiting scholar at the Psychology Department of the Illinois State University in Normal, IL. Working with: Corinne Zimmerman & Steve Croker
Oct. 2009-Oct. 2011	Teaching assistant at the physics faculty, supervising physical training courses for none physic majors
Mar. 2010	Internship in the office of a Hessian state parliamentarian
2005-2006	Social service at an kindergarten

AWARDS & GRANTS

Oct. 2015	International young scholar award for participating at the 2015 CDS conference in Columbus, OH, USA. Funding agency: Jacobs Foundation Amount: 1000\$
Aug. 2014	Travel grand for participating at the ESERA conference in Helsinki, Finland. Funding agency: German Academic Exchange Service Amount: 760€
Feb. 2014	Travel grand for participating at the NARST annual international conference in Pittsburgh, PA, USA. Funding agency: German Academic Exchange Service Amount: 1,072€
Jan. 2012	Thesis award of the Marburger Geographical Society
Jun. 2005	One year free membership for excellent physic students in the German Physical Society

MANUSCRIPTS AND PUBLICATION

Schwichow, M., Croker, S., Zimmerman, C., Höffler, T. N., & Härtig, H. (revision). Teaching the Control-of-Variables Strategy: A Meta-Analysis.

Schwichow, M., Christoph, S., Boone, W. & Härtig, H (minor revision). The Impact of Sub-Skills and Item Content on Students' Skills with regard to the Control-of-Variables-Strategy (CVS)

Schwichow, M., Zimmerman, C., Croker, S., & Härtig, H. (submitted). What Students Learn from Hands-on Activities.

Schwichow, M., Christoph, S., & Härtig, H. (2015). Förderung der Variablen-Kontroll-Strategie im Physikunterricht. [Teaching the Control-of-Variables-Strategy in Physic Classes] *Der mathematisch naturwissenschaftliche Unterricht (MNU)*. 68.(06).

Schwichow, M., & Kohnen, N. (2015). Das Waldschattenspiel. Nutzung eines kooperativen Brettspiels im Anfangsunterricht zur Optik. [The Forest Shadow Game. Utilizing a cooperative board game in optics introduction courses] *Unterricht Physik*. 149. P. 6.

Schwichow, M (2012). Welche Bedeutung hat das Vorkommen oder Fehlen von Endemiten auf flachen tropischen Inseln für die Klimaforschung und Biogeographie. [The impact of the appearance or absent of endemics on small flat tropical islands to climate science and biogeography] *Jahrbuch der Marburger Geographischen Gesellschaft 2011*. Marburger Geographische Gesellschaft. Marburg.

PRESENTATIONS & INVITED TALKS

- Schwichow, M., & Christoph, S. (2015). The development of different facets of the control-of-variables strategy. Poster presented at the CDS International Conference, Columbus, OH.
- Schwichow, M., & Härtig, H. (2015). What students learn from hands-on experimental tasks. Paper presented at the ESERA International Conference, Helsinki, Finland.
- Schwichow, M., & Härtig, H. (2015). Was lernen Schüler beim Experimentieren?. [What do students learn from hands-on experimental tasks]. Frühjahrstagung der Deutschen Physikalischen Gesellschaft Fachverband Didaktik der Physik. Wuppertal, Germany.
- Schwichow, M., & Härtig, H. (2014). Teaching the control of variables strategy: A research-synthesis. Paper presented at the NARST Annual International Conference, Pittsburgh, PA.
- Schwichow, M., & Härtig, H. (2014). Einfluss der Lerngelegenheit auf den Erwerb experimenteller Kompetenz [The impact of the learning environment on students' experimental skills]. Paper presented at the GDCP Annual Conference, Bremen, Germany.
- Schwichow, M. (Nov. 2013). How should we teach inquiry skills in science? Results of a meta-analysis of intervention studies on the control-of-variables strategy. Presented at the Brown Bag Speaker Series of the psychological department at Illinois State University, Normal, IL.

PUBLISHED INTERVIEWS

- Hartlieb, J. (2014). Das forschende Klassenzimmer [The inquiry classroom]. Helmholtz Perspektiven.http://www.helmholtz.de/fileadmin/user_upload/04_mediathek/perspektiven/mai_jun_14/page27.html#/26

PROFESSIONAL AFFILIATIONS

- National Association of Research in Science Teaching
Cognitive Development Society
Gesellschaft für die Didaktik der Chemie und Physik (GDCP)