

ACADEMIC BIBLIOGRAPHY

(E) = Editorial; (SI) = Special Issue; (PhD) = 1st author is/was my PhD/Master student

JOURNAL ARTICLES, PEER-REVIEWED (SUBMITTED)

- Bichler, S., Stadler, M., Bühner, M., **Greiff, S.**, & Fischer, F. (submitted). Worked examples and problem solving. The self-explanation mechanism and the influence of cognitive aptitudes. A replication.
- Bobrowicz, K., Gracia, P., & **Greiff, S.** (submitted). Early childhood policies support individual achievement but threaten social cohesion.
- Burgoynes, A., Krieger, F., **Greiff, S.**, & Engle, R. (submitted). The essential role of attention control for complex problem solving. Unraveling the nomological net.
- Eichmann, B., Hahnel, C., **Greiff, S.**, & Goldhammer, F. (submitted). The role of repeating goal-directed behaviour in complex problem solving.
- Han, A., Krieger, F., Kim, S., Dowell, N., & **Greiff, S.** (submitted). Revisiting the relationship between team members' personality and their team's performance: A meta-analysis. (PhD)
- Krieger, F., Gottschling, J., Sonnleitner, P., Cardoso-Leite, P., Bobrowicz, K., Feraco, T., He, Q., Vainikainen, M. P., & **Greiff, S.** (submitted). Proficiency classes in complex problem solving and their implications for interventions. A latent class approach.
- Münscher, J. C., **Greiff, S.**, Sander, N., Bliem, W., & Herzberg, P. Y. (submitted). A European perspective on apprenticeship occupations and their psychological demands.
- Naumann, J., Brandhuber, L., Goldhammer, F., Eichmann, B., & **Greiff, S.** (submitted). For skilled comprehenders digital reading is a task, for unskilled comprehenders it is a problem. Interactive effects of problem solving and comprehension skills on digital reading navigation and performance.
- Nicolay, B., Krieger, F., & **Greiff, S.** (submitted). From the control of variables strategy to success? A systematic review of complex problem solving strategies. (PhD)
- Rost, D., **Greiff, S.**, Ladkani, S., & Stadler, M. (submitted). Sticking with it. The dimensionality and domain-specificity of grit
- Weber, A., Barkela, V., Han, A., Mühling, A., **Greiff, S.**, & Leuchter, M. (submitted). Mitigating the implications of a stereotype threat when introducing computational thinking into primary school teacher education.

JOURNAL ARTICLES, PEER-REVIEWED (UNDER REVISION)

- Costa, D. R., Andersson, B., He, Q., Scherer, R., & **Greiff, S.** (under revision). A look at students' performance and gender differences in solving mathematics digital tasks. Insights from process data of PISA 2012. *Large-Scale Assessment in Education*.
- Franzen, P., Arens, K., Niepel, C., Keller, U., Fischbach, A., & **Greiff, S.** (under revision). Improving prediction through machine learning. The relation between conscientiousness and academic achievement. *European Journal of Psychological Assessment*.
- Han, A., Krieger, F., Kim, S., Dowell, N., & **Greiff, S.** (under revision). Revisiting the relationship between team members' personality and their team's performance: A meta-analysis. *Journal of Research in Personality*. (PhD)
- Weber, A., Bobrowicz, K., Leuchter, M. & **Greiff, S.** (under revision). Mental rotation skills and their relationships with block play, gender, and fluid intelligence in young children. *Journal of Applied Developmental Psychology*.

JOURNAL ARTICLES, PEER-REVIEWED (PUBLISHED & SPECIAL ISSUES) & EDITORIALS

In press

- (258) Borgonovi, F., Han, S. W., & **Greiff, S.** (in press). Gender differences in collaborative problem solving skills and preferences. *Journal of Educational Psychology*.
- (257) Börte, K., Lillejord, S., Chan, J., Wasson, B., & **Greiff, S.** (in press). Prerequisites for teachers' technology use in formative assessment practices. A systematic review. *Educational Research Review*.
- (256) Botes, E., Azari, M. & **Greiff, S.** (in press). New wine in new bottles: L2 Grit in comparison to domain-general grit. Conscientiousness, and cognitive ability as a predictor of language learning. *Journal of Multilingual and Multicultural Development*
- (255) Botes, E., Dewaele, J. M., **Greiff, S.**, & Götz, T. (in press). Can personality predict foreign language classroom emotions? The devil's in the detail. *Studies in Second Language Acquisition*. <https://doi.org/10.1017/S0272263123000153> (PhD)
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- (253) Han, A., Krieger, F., Borgonovi, F., & **Greiff, S.** (in press). Behavioral patterns in collaborative problem solving. A latent profile analysis based on response times and actions in PISA 2015. *Large-Scale Assessments in Education*.
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- (251) Kessler, F., Proske, A., Urbas, L., Goldwater, M., Krieger, F., **Greiff, S.**, & Narciss, S. (in press). Promoting complex problem solving by introducing schema-governed categories of key causal models. *Behavioral Sciences*.
- (250) Sparfeldt, J., Spörer, N., **Greiff, S.**, & Schneider, R. (in press). Ein Plädoyer für valide(re) Bewertungen der wissenschaftlichen Leistungen in Berufungsverfahren. [A plea for (more) valid assessments of scientific performance in appointment procedures]. *Psychologische Rundschau*. <https://doi.org/10.1026/0033-3042/a000640>
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BOOKS

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KEYNOTES, SYMPOSIA, SCIENTIFIC PRESENTATIONS & INVITED TALKS

In total, >220 peer-reviewed talks and posters, >160 invited talks & panel discussions, >20 symposia, & >20 keynotes on various topics at national and international scientific conferences, to policy makers and education stakeholders, and to the broad public.

Selected keynotes:

Greiff, S. (2023, December). *Creativity and AI. Complementing or contradicting each other in 21st century education?* Keynote at the Future of Education & Creative Work Conference in Bergen, Norway, 03.12.2023.

Greiff, S. (2023, August). *International large-scale assessments and education in the 21st century*. Keynote at the European Conference of Educational Research in Glasgow, Scotland, 22.08.-25.08.2023.

Greiff, S. (2023, March). *Artificial intelligence and learning analytics in educational research. An interdisciplinary challenge*. Keynote at the Symposium of Interdisciplinary at University of Poitiers in Poitiers, France, 30.03.2023.

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Greiff, S. (2022, April). *How to enhance testing and learning. Technology-based assessment in the 21st century*. Keynote at the 18th Conference on Educational Assessment in Szeged, Hungary, 21.04.-23.04.2022.

Greiff, S. & Bobrowicz, K. (2022, April). *Large-scale assessments. PISA, PIAAC, and their potential for data science*. Keynote at the lecture series of the Joint Research Data Center at the Central University of Finance and Economics & University of Electronic Science and Technology of China in Beijing, China, 29.04.2022.

Greiff, S. (2021, April). *Combining perspectives. A view at learning analytics from the outside*. Keynote at the 11th International Learning and Knowledge (LAK) Conference. Conference held online, 12.04.-16.04.2021.

Greiff, S. (2020, September). *(Meta-)Evaluation in secondary and tertiary education*. Keynote at the Meeting of the Network Quality Audit. Meeting held online, 24.09.-25.09.2020.

Greiff, S. (2020, September). *Technology-based assessment in 21st century education*. Keynote at the 15th European Conference on Technology-Enhanced Learning and the 18th Annual Conference of GI Educational Technologies Special Interest Group (DELF1). Conferences held online, 15.09.-17.09.2020.

Greiff, S. & Nicolay, B. (2020, June). *The benefits of process data analysis for a better understanding of complex psychological constructs*. Keynote at the Workshop Beyond Results: Paving the Way for the Use of Process Data at the Leibniz Institute for Research and Information Education, Frankfurt, Germany, 17.06.-18.06.2020.

Greiff, S. (2018, August). *International large-scale studies in the spotlight. Process data, learning analytics, and beyond*. Keynote at the 9th Conference of the EARLI SIG 1 Assessment in Helsinki, Finland, 29.08.-31.08.2018.

Greiff, S. (2018, November). *Educational assessment and its prospects in the 21st century*. Keynote at the 19th Annual Meeting of the Association for Educational Assessment in Europe in Arnhem, The Netherlands, 08.11.-10.11.2018.

Greiff, S. & Johnson, A. (2017, December). *Computer-based assessments in PISA. Challenges and potentials for research and policy*. Keynote at the Educational Policy Conference in Chisinau, Moldova, 06.12.2018.

Greiff, S. (2016, October). *The use of process data to advance our understanding of technology-enhanced assessment*. Keynote at the 2016 International Technology Enhanced Assessment Conference in Tallinn, Estonia, 05.10.-06.10.2016.

Greiff, S. (2015, May). *Computer-generated log files and their potential for educational large-scale assessments. The example of PISA 2012 problem solving data*. Keynote at the National Authority for Measurement and Evaluation in Education in Tel Aviv, Israel, 05.05.2015