

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.
- Eichmann, B., Hahnel, C., **Greiff, S.**, & Goldhammer, F. (submitted). The role of repeating goal-directed behaviour in complex problem solving.
- 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.
- 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)
- 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)

- Bauer, E., Sailer, M., Niklas, F., **Greiff, S.**, Sarbu-Rothsching, S., Zottmann, J. M., Kiesewetter, J., Stadler, M., Fischer, M. R., Seidel, T., Urhahne, D., & Fischer, F. (under revision). Adaptive feedback from artificial intelligence in teacher education. An experimental replication in the field. *Journal of Computer-Assisted Learning*.
- Burgoyne, A., Krieger, F., **Greiff, S.**, & Engle, R. (under revision). The essential role of attention control for complex problem solving. Unraveling the nomological net. *Journal of Experimental Psychology: Learning, Memory, & Cognition*.
- 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*.

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

In press

- (276) 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*. <https://doi.org/10.1080/01434632.2023.2294120> (PhD)
- (275) Chernikova, O., Franzen, P., Arens, K., Niepel, C., Stadler, M., Keller, U., Fischbach, A., & **Greiff, S.** (in press). Improving prediction through machine learning. The relation between conscientiousness and academic achievement. *European Journal of Psychological Assessment*.

- (274) Guo, J., Ma, Li, T., Moetel, M., Liao, K., & Greiff, S. (in press). Harnessing artificial intelligence in generative content for enhancing motivation in learning. *Learning and Individual Differences*. <https://doi.org/10.1016/j.lindif.2024.102547> (E)
- (273) Rost, D., **Greiff, S.**, Ladkani, S., & Stadler, M. (in press). Sticking with it. The dimensionality and domain-specificity of grit. *European Journal of Psychological Assessment*. <https://doi.org/10.1027/1015-5759/a000837>
- (272) Teuber, Z., Datu, J. A. D., Botes, E., Dicke, T., Jordan, G., Lan, X., Iliescu, D., Guo, J., & **Greiff, S.** (in press). Gritty parenting. The development and validation of the parental grit scale. *Assessment*. <https://doi.org/10.31234/osf.io/gnyex>

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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.
- 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 (DELFI). 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