Scientific Talks
Aron Fink

2023

Fink, A., Gombert, S., & Frey, A. (2023, September). *Automatisierte Inhaltsanalyse von Essays mittels Transformern* [Automated analysis of essay content using transformer models]. Paper presented at the 16th meeting of the Methods and Evaluation Division of the DGPs, Constannce, Germany.

Fink, A., Gombert, S., & Frey, A. (2023, September). *Using natural language processing to automate the assessment of student essay content*. Paper presented at the Frontier Research in Educational Measurement - FREMO 2023, Oslo, Norway.

Frey, A., Fink, A., König, C., & Liu, T. (2023, September). *Metaanalyse zu den Effekten des computerisierten adaptiven Testens auf Motivation und Emotion* [Presentation]. Paper presented at the 16th meeting of the Methods and Evaluation Division of the DGPs, Constannce, Germany

König, C., Fink, A., & Frey, A. (2023, September). *Der Einfluss hoch-adaptiven Testens auf den Ländervergleich bei PISA* [The impact of highly adaptive testing on country comparison in PISA.]. Paper presented at the 16th meeting of the Methods and Evaluation Division of the DGPs, Constannce, Germany

Menzel, L., Gombert, S., Weidlich, J., Fink, A., Frey, A., & Drachsler, H. (2023, September). *Why you should give your students automatic process feedback on their collaboration: evidence from a randomized experiment*. 18th European Conference on Technology Enhanced Learning (ECTEL), Aveiro, Portugal.

Frey, A., Koenig, C., & Fink, A. (2023, July). *A highly adaptive testing design for PISA*. Paper presented at the 10th European Congress of Methodology (EAM), Ghent, Belgium.

Schenk, C., Frey, A., Fink, A., & Weiß, L. (2023, April). *Digitales Prüfen mit psychometrisch fundierten E-Klausuren* [Digital testing with psychometrically based e-exams]. Paper presented at the University:Future Festival, Online.

Fink, A. (2023, März). *Der Einsatz von Natural Language Processing zur automatisierten Kodierung von Essays in digital gestützter Hochschullehre* [The use of natural language processing for automated essay coding in digitally supported higher education]. Paper presented at the Colloquium Educational Research Methods, Hirschegg, Austria.

2022

Fink, A., Frey, A., Liu, T., & Gombert, S. (2022, September*). Nutzung von Natural Language Processing zur automatisierten Kodierung von Essays in digital gestützten Großveranstaltungen an Hochschulen* [Using natural language processing for automated coding of essays in digitally-supported large-scale university lectures]. Paper presented at the 52nd Conference of the German Psychological Society (DGPs) Hildesheim, Germany.

Fink, A., & Klein, K. (2022, September). *Investigation of the Psychometric Quality of the German Adaptive Language Test Goethe-Test PRO*. Paper presented at the 8th Conference of the International Association for Computerized Adaptive Testing (IACAT) Frankfurt, Germany.

Fink, A., Spoden, C., Frey, A., & Naumann, P. (2022, September). *Kriteriumsorientiertes adaptives Testen mit der KAT-HS-App* [Criterion-referenced adaptive testing using the KAT-HS-App]. Software demonstration at the 52nd Conference of the German Psychological Society (DGPs) Hildesheim, Germany.

Frey, A., König, C., & Fink, A. (2022, September). *Highly Adaptive Testing Design for PISA*. Paper presented at the 8th Conference of the International Association for Computerized Adaptive Testing (IACAT) Frankfurt, Germany.

Frey, A., König, C., & Fink, A. (2022, September). *Hoch-adaptives Testen bei PISA* [Highly adaptive testing in PISA]. Paper presented at the 52nd Conference of the German Psychological Society (DGPs) Hildesheim, Germany.

Spoden, C., Fink, A., & Frey, A. (2022, September). *Evaluating Criterion-Referenced Adaptive University E-Exams.* Paper presented at the 52nd Conference of the German Psychological Society (DGPs) Hildesheim, Germany.

Fink, A. (2022, April). *Effekte von automatisiertem Feedback auf das emotionale Erleben digital gestützter Großveranstaltungen an Hochschulen* [Effects of automated feedback on the achievement emotions during digitally supported lectures in higher education]. Paper presented at the Colloquium Educational Research Methods, Hirschegg, Austria.

Fink, A., Frey, A., & König, C. (2022, April). *Dealing with item calibration error in computerized adaptive testing.* Paper presented at the Annual Meeting of the National Council on Measurement in Education (NCME), San Diego, USA.

Frey, A., König, C, & Fink, A. (2022, April). *Optimierung von Adaptivität und Transparenz des PISA-Assessment-Designs* [Presentation]. Paper presented at the Colloquium Educational Research Methods, Hirschegg, Austria.

2021

Frey, A., König, C., & Fink, A. (2021, Dezember). *Understanding the full potential of CAT for PISA.* PISA Research, Development and Innovation (RDI) Programme: Project on multi-stage adaptive testing. Virtual country/economy workshop, OECD, Online.

Fink, A., Frey, A., & König, C. (2021, September). *Berücksichtigung der Messfehler in den Itemparametern beim computerisierten adaptiven Testen* [Consideration of measurement error in item parameters during computerized adaptive testing]. Paper presented at the at the 15th Conference of the Subdivision "Methods and Evaluation" of the German Psychological Society (DGPs) Mannheim, Germany.

Fink, A., & Frey, A. (2021, June). *Increasing test efficiency of the teacher knowledge survey module of TALIS 2024 through multidimensional adaptive testing.* Paper presented at the 6th International NEPS Conference, Bamberg, Germany.

Tempel, B. Naumann, P., Fink, A., Overbeck, A., Muster, S., Guenther, J., Frey, A., Otto, S., & Schaal, S. (2021, September). *Entwicklung eines quasilängsschnittlichen Outcomeindikatorentests zur BNE-Entwicklung in der Schule* [Präsentation]. Tagung der Fachsektion Didaktik der Biologie (FDdB). Online.

2020

Fink, A. (2020, March). *Berücksichtigung der Unsicherheit in Itemparameterschätzungen beim computerisierten adaptiven Testen* [Consideration of the uncertainty in item parameter estimates in computerized adaptive testing]. Vortrag auf dem Kolloquium Methoden der empirischen Bildungsforschung, Hirschegg, Österreich.

Frey, A. & Fink, A. (2020, March). *Kontinuierliche Kalibrierung mit Berücksichtigung von Itempositionseffekten bei internationalen Large-Scale-Assessments* [Continuous calibration taking item position effects into account in large-scale assessments]. Vortrag auf dem Kolloquium Methoden der empirischen Bildungsforschung, Hirschegg, Austria.

2019

Frey, A., Fink, A., & Spoden, C. (2019, September). *Berücksichtigung von Itempositionseffekten beim computerisierten adaptiven Testen mit der kontinuierlichen Kalibrierungsstrategie*

[Consideration of Item Position Effects in Computerized Adaptive Testing with the Continuous Calibration Strategy]. Paper presented at the 14th Conference of the Subdivision "Methods and Evaluation" of the German Psychological Society (DGPs), Kiel, Germany.

Fink, A., Spoden, C, Born, S., & Frey, A. (2019, August). *Testing an explanatory model for the intention to use e-exams by the university teaching staff*. Paper presented at the 18th Conference of the European Association for Research on Learning and Instruction, Aachen, Germany.

Frey, A., Fink, A., & Spoden, C. (2019, June). *Consideration of Item Position Effects in CAT with the Continuous Calibration Strategy*. Paper presented at the International Association for Computerized Adaptive Testing (IACAT). Minneapolis, USA.

Fink, A., Frey, A., Born, S., & Spoden, C. (2019, March). *Auswirkungen einer computerisierten teiladaptiven Klausur auf das emotionale Erleben von Klausuren seitens Studierender* [Effects of a computerized semi-adaptive exam on students' emotional experience of exams]. Paper presented at the colloquium Methods of Empirical Educational Research, Hirschegg, Austria.

Esmaeili Bijarsari, S., Frey, A., Spoden, C., Born, S., & Fink, A. (2019, February). *Akzeptanz kriteriumsorientierter computerisierter adaptiver Hochschulklausuren seitens Studierender* [Acceptance of criterion-referenced computerized adaptive university exams by students]. Paper presented at the 7th Conference of the Society for Empirical Educational Research (GEBF), Cologne, Germany.

Fink, A*.,* Spoden, C., Born, S., & Frey, A. (2019, February). *Einflussfaktoren auf die Intention zur Nutzung (adaptiver) E-Klausuren seitens Hochschullehrender* [Factors influencing university lecturers' intention on the usage of (adaptive) e-exam]. Paper presented at the 7th Conference of the Society of Empirical Educational Research (GEBF), Cologne, Germany.

Frey, A., Fink, A., Born, S., & Spoden, C. (2019, February). *Nutzung computerisierten adaptiven Testens bei wiederkehrenden Erhebungen mit kleinen Stichproben* [Use of computerized adaptive testing for repeated small sample surveys]. Paper presented at the 7th Conference of the Society for Empirical Educational Research (GEBF), Cologne, Germany.

2018

Born, S., Frey, A., Fink, A., & Spoden, C. (2018, September). *Kriteriumsorientierte adaptive Hochschulklausuren: Auswirkung der Auswahl der Linkitems auf die Parameterschätzung* [Criterion-referenced adaptive university exams: Consequences of the selection of the link items onto the parameter estimation]. Paper presented at the 51th Congress of the German Psychological Society (DGPs), Frankfurt, Germany.

Fink, A., Born, S., Frey, A., & Spoden, C. (2018a, September). *Hinderungsgründe der Implementation computerisierter adaptiver Hochschulklausuren* [Impediments of the implementation of computerized adaptive university exams]. Poster at the 51th Congress of the German Psychological Society (DGPS), Frankfurt, Germany.

Fink, A., Born, S., Frey, A., & Spoden, C. (2018b, September). *Criterion-referenced adaptive University exams: Effects of different linking designs on parameter estimates*. Paper presented at the 1st Frontiers in Educational Measurement Conference (FREMO), Oslo, Norway.

Frey, A., Fink, A., Born, S., & Spoden, C. (2018, September). *Continuous item calibration in computerized adaptive testing*. Paper presented at the 1st Frontiers in Educational Measurement Conference (FREMO), Oslo, Norway.

Köhler, H., Born, S., Fink, A., Frey, A., & Spoden, C. (2018, September). *Kriteriumsorientiertes adaptives Testen in der Hochschule – Ergebnisse der ersten Kalibrierungsphase* [Criterion-referenced adaptive testing in university – Results of the first phase of calibration]. Poster at the 51th Congress of the German Psychological Society (DGPs), Frankfurt, Germany.

Köhler, H., Frey, A., Born, S., Fink, A., Spoden, C., & Bauer, J. (2018, July). *Calibration of a criterion-referenced computerized adaptive test in higher education*. Paper presented at the 8th European Congress of Methodology (EAM), Jena, Germany.

Born, S., Frey, A., Spoden, C., Fink, A., Köhler, H., & Kühne, I. M. (2018, March). *Kriteriumsorientiertes adaptives Testen in der Hochschullehre (KAT-HS)* [Criterion-referenced adaptive testing in higher education]. Poster at the Conference "Digitalisierung als Herausforderung für die Hochschuldidaktik", Mainz, Germany.

Fink, A., Born, S., Frey, A., & Spoden, C. (2018, March). *A continuous calibration method for computerized adaptive university exams*. Paper presented at the Colloquium "Educational research methods", Hirschegg, Austria.

Spoden, C., Born, S., Fink, A., & Frey, A. (2018, March). *Adaptive Hochschulklausuren am Beispiel einer Klausur zu „Forschungsmethoden der Erziehungswissenschaft"* [Adaptive written University exams exemplified with an exam on "Research Methods in Education"]. Paper presented at the 26th Congress of the German Educational Research Association (DGfE), Essen, Germany.

2017

Spoden, C., Fink, A., Born, S., & Frey, A. (2017, November). *A new method for continuous updating of difficulty estimates in small sample CAT item pool calibration*. Paper presented at the GESIS symposium "Advances in Scale Development in the Social Sciences: Issues of Comparability", Mannheim, Germany.

Born, S., Frey, A., Spoden, C., & Fink, A. (2017, September). *Kriteriumsorientierte adaptive Hochschulklausuren: Auswirkung verschiedener Kalibrierungsdesigns auf die Personenparameterschätzung* [Criterion-referenced adaptive written university exams in higher education: Effects of calibration design on person parameter estimates]. Paper presented at the 13th Conference of the Subdivision "Methods and Evaluation" of the German Psychological Society (DGPs), Tübingen, Germany.

Fink, A., Born, S., Frey, A., & Spoden, C. (2017, September). *Kriteriumsorientierte adaptive Klausuren an Hochschulen* [Criterion-referenced adaptive written University exams]. Paper presented at the E-Prüfungs-Symposium 2017 (ePS), Bremen, Germany.

Frey, A., Born, S., Spoden, C., & Fink, A. (2017, September). *Kriteriumsorientierte adaptive Hochschulklausuren: Methodische Probleme typischer Klausuren und Möglichkeiten zur Verbesserung* [Criterion-referenced adaptive written University exams: Problems of typical exams and options for improvement]. Paper presented at the 13th Conference of the Subdivision "Methods and Evaluation" of the German Psychological Society (DGPs), Tübingen, Germany.

Frey, A., Spoden, C., Born, S., Fink, A., & Kühne, I.M. (2017, July). *Kriteriumsorientiertes adaptives Testen in der Hochschule (KAT-HS)* [Criterion-referenced adaptive testing in higher education]. Poster at the Conference "Hochschulen im digitalen Zeitalter" of the Bundesministerium für Bildung und Forschung (BMBF), Berlin, Germany.