

## I Peer Reviewed Articles

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### KP

Zlatkin-Troitschanskaia, O., Fischer, J., Braun, H.I., & Shavelson, R. J. (2023). Advantages and challenges of performance assessment of student learning in higher education. *International Encyclopedia of Education (Fourth Edition)*, 312–330

### A01

Köhler, C., & Hartig, J. (2024). ChatGPT in higher education: Measurement instruments to assess student knowledge, usage, and attitude. *Contemporary Educational Technology*, 16(4), ep528. <https://doi.org/10.30935/cedtech/15144>

### A02

Schmidt, S., Zlatkin-Troitschanskaia, O., & Shavelson, R. J. (2023). Modeling and measuring domain-specific quantitative reasoning in higher education business and economics. *Frontline Learning Research*, 11(1), 40-56, [doi.org/10.14786/flr.v11i1.885](https://doi.org/10.14786/flr.v11i1.885)

### B05

Baumartz, D., Konca, M., Mehler, A., Schrottenbacher, P. & Braunheim, D. (2024). Measuring Group Creativity of Dialogic Interaction Systems by Means of Remote Entailment Analysis. In *Proceedings of ACM Hypertext and Social Media (HT '24)*. ACM, New York, NY, USA.

Mehler, A., Bagci, M., Henlein, A., Abrami, G., Spiekermann, C., Schrottenbacher, P., Konca, M., Lücking, A., Engel, J., Quintino, M., Schreiber, J., Saukel, K., & Zlatkin-Troitschanskaia, O. (2023). A Multimodal Data Model for Simulation-Based Learning with Va.Si.LiLab. *Proceedings of HCI International 2023*.

Konca, M., Mehler, A., Lücking, A. & Baumartz, D. (2024). Visualizing Domain-specific and Generic Critical Online Reasoning Related Structures of Online Texts: A Hybrid Approach. In: *Students', Graduates' and Young Professionals' Critical Use of Online Information: Digital Performance Assessment and Training within and across Domains*, 195–239. Ed. by Olga Zlatkin-Troitschanskaia, Marie-Theres Nagel, Verena Klose and Alexander Mehler. Springer Nature Switzerland. 10.1007/978-3-031-69510-0\_10

### C08

Leonhardt, A., Abrami, G., Baumartz, D., & Mehler, A. (2023). Unlocking the Heterogeneous Landscape of Big Data NLP with DUUI. In *Findings of the Association for Computational Linguistics: EMNLP 2023* (S. 1–15). Association for Computational Linguistics.

Abrami, G., Genios, M., Fitzermann, F., Baumartz, D., & Mehler, A., (2025). *Docker Unified UIMA Interface: New Perspectives for NLP on Big Data*, SoftwareX, 29, p. 102033, [doi:10.1016/j.softx.2024.102033](https://doi.org/10.1016/j.softx.2024.102033)

Mehler, A., Bagci, M., Schrottenbacher, P., Henlein, A., Konca, M., Abrami, G., Bönisch, K., Stoeckel, M., Spiekermann, C. & Engel, J. (2024). Towards New Data Spaces for the Study of Multiple Documents with Va.Si.Li-Lab: A Conceptual Analysis. In: *Students', Graduates' and Young Professionals' Critical Use of Online Information: Digital Performance Assessment and Training within and across Domains*, 259–303. Ed. by Olga Zlatkin-Troitschanskaia, Marie-Theres Nagel, Verena Klose and Alexander Mehler. Springer Nature Switzerland. 10.1007/978-3-031-69510-0\_12

### III Paper and Poster Presentations

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#### KP

##### National

Zlatkin-Troitschanskaia, O., Hartig, J., Fischer, J., & Molerov, D. (2024). *Critical Online Reasoning in Higher Education. Assessing knowledge acquisition in online settings in Germany* [Poster Presentation]. Presentation at GEBF, 18. March, Postdam, Germany.

##### International

Fischer, J. & Zlatkin-Troitschanskaia, O., Laufer, A., Pötzsch, J. & Schumacher, J. (2023). *Use of Online Media for Student Learning in Higher Education – Insights from a Review of Current International Research* [Paper presentation]. Presentation at WERA Focal Meeting 2023, November, Singapur.

Zlatkin-Troitschanskaia, O., Fischer, J., Pötzsch, J. & Hartig, J. (2024). *Critical Online Reasoning in Higher Education (CORE). Assessing knowledge acquisition in online settings in Germany* [Poster Presentation]. Presentation at AERA, 13. April, Philadelphia, Pennsylvania, USA.

#### A01

##### National

Drake, P., Goldhammer, F., Hahnel, C., Hartig, J., Illmann, J., Köhler, C. & Schrickel, M. (2024). *Erfassung der kritischen Informationsnutzung im Internet durch interaktive computerbasierte Aufgaben*. [Symposium Presentation]. Presentation at GEBF, 19. March, Postdam, Germany.

Troitschanskaia, O. & Hartig, J. (2023). *Generische und fachspezifische Kompetenzen von Hochschulstudierenden im Umgang mit Online-Informationen - Erfassung und Entwicklung im Studium – Projekte A01 und A02* [symposium presentation]. Presentation at AEPF, 15. September, Potsdam, Germany.

##### International

Hahnel, C., Schrickel, M., Drake, P., Illmann, J., Hartig, J., Goldhammer, F., & Köhler, C. (2024). *How reading skills support students in their journey through the online information landscape*. Presentation at the Conference of the EARLI SIG 2 Comprehension on Text and Graphics, 04.-06.09., Valencia, ES.

#### A02

##### National

Nagel, M.T., Zlatkin-Troitschanskaia, O., Fischer, J., Kohmer, A. & Maur, A. (2024). *Entwicklung des domänenspezifischen kritischen Online-Reasoning (DOM-COR) in Wirtschaftswissenschaften bei Studierenden im Verlauf des Bachelorstudiums und wesentliche Einflussfaktoren auf DOM-COR* [Poster Presentation]. Presentation at DGFE, 12.



March, Halle, Germany

Troitschanskaia, O. & Hartig, J. (2023). *Generische und fachspezifische Kompetenzen von Hochschulstudierenden im Umgang mit Online-Informationen - Erfassung und Entwicklung im Studium – Projekte A01 und A02* [Symposium Presentation]. Presentation at AEPF, 15. September, Potsdam, Germany.

### International

Nagel, M.-T., Kohmer, A., Zlatkin-Troitschanskaia, O., Martin de los Santos Kleinz, L., Fischer, J. & Maur, A. (2023). *Development and Validation of a Critical Online Reasoning Assessment in Higher Education - An International Study* [Paper presentation]. Presentation at WERA Focal Meeting 2023, November, Singapur.

Zlatkin-Troitschanskaia O., Schmidt, S., Hartig J., Drake P., Nagel, M.-T., Fischer, J. (2024). *Performance Assessments to Validly Measure Cross-nationally University Economics Students' Domain-specific Critical Online Reasoning* [Symposium Presentation]. Presentation at AERA, 13. April, Philadelphia, Pennsylvania, USA.

### A03

### National

Zottmann, J., Horrer, A., Kuhn, J., Jünger, J., Roeper, J., & Fischer, M. R. (2023). *Fachspezifische Kompetenzen von Hochschulstudierenden im Umgang mit Online-Informationen - Erfassung und Entwicklung im Studium – Projekt A03* [Symposium Presentation]. Presentation at AEPF, 15. September, Potsdam, Germany.

### International

Horrer, A., Küchemann, S., Kuhn, J. Fischer, M. R., & Zottmann, J. (2024). *On the interplay of scientific reasoning and epistemological beliefs of medical and physics students* [Paper presentation]. Presentation at EARLI SIG 4 & 17 Conference 2024. 25.-27. September, Utrecht, The Netherlands.

Horrer, A., Küchemann, S., Kuhn, J. Fischer, M. R., & Zottmann, J. (2024). *Interplay of scientific reasoning skills and epistemological beliefs of medical and physics students* [Paper presentation]. Presentation at EARLI SIG 20 & 26 Conference 2024. 18.-20. September, Berlin, Germany.

Horrer, A., Küchemann, S., Kuhn, J. Fischer, M. R., & Zottmann, J. (2024). *The interplay of scientific reasoning skills and epistemological beliefs of medical and physics students* [Symposium presentation]. Presentation at BERA Conference 2024 and WERA Focal Meeting. 08.-12. September, Manchester, United Kingdom.

Stroganova, A., Horrer, A., Kuhn, J., Fischer, M. R., & Zottmann, J. (2024). *Task-Entwicklung für die Messung von Fähigkeiten zum Critical Online Reasoning in der medizinischen Ausbildung* [Symposium presentation]. Presentation at GMA, 05.-09. August, Fribourg, Swiss.

Zottmann, J., Kuhn, J., & Fischer, M. R. (2024). *Critical Online Reasoning in der medizinischen Ausbildung*. [Symposium]. GMA, 05.-09. August, Fribourg, Swiss.



### B05

#### International

Konca et al. (2024). Modelling and Analyzing the Online Information Landscape University Students Use for Their Learning. Presentation at AERA, 13. April, Philadelphia, Pennsylvania, USA.

### B06

#### National

Schelle, C., Banerjee, M., Zlatkin-Troitschanskaia, O., Braunheim, D. & Touzos, A. (2024). *Zum kritischen Umgang Studierender mit Internetinformationen – Methodologische Potentiale hermeneutisch-rekonstruktiver und narrativer Analysen in digitalen Lernumgebungen* [Single Paper]. Presentation at GEBF, 19. March, Postdam, Germany.

Banerjee, M., Schelle, C., Zlatkin-Troitschanskaia, O., Touzos, A., & Braunheim, D. (2024). *Hermeneutische und narrative Analysen studentischer Critical Online Reasoning (COR)-Prozesse beim Lösen generischer und domänenspezifischer Aufgaben in einer digitalen Lernumgebung* [Poster Presentation]. Presentation at DGFE, 12. March, Halle, Germany.

Schelle, C. (2023). *The Role of Narrative Framing and Latent Meaning Structures of Online Information Used by Medical and Economics Students in their COR* [Poster presentation]. Presentation at Institutstag des Instituts für Erziehungswissenschaft der JGU, 27. Juni, Mainz, Germany.

Schelle, C. (2023). *Zur Rolle von narrativen Framings und latenten Bedeutungsstrukturen in Online Informationen und deren Verarbeitung – Potentiale eines innovativen Mixed-Method-Designs* [Symposium Presentation]. Presentation at AEPF, 15. September, Potsdam, Germany. (in Kooperation mit Olga Troitschanskaia, Mita Banerjee)

Schelle, C. (2023). *Zum kritischen Umgang mit Internetinformationen bei Studierenden – Potentiale eines innovativen methodenintegrativen Settings für die politische Bildung*. Presented at Arbeitskreis Politikunterrichtsforschung (GPJE), Dortmund, Germany. (in Kooperation mit Olga Troitschanskaia, Mita Banerjee)

#### International

Schelle, C., Banerjee, M., Braunheim, D. & Zlatkin-Troitschanskaia, O. (2024). *A Reconstructive Hermeneutic and Narrative Analysis of Students Critical Reasoning Processes Performing an Internet Search* [Symposium Presentation]. Presentation at AERA, 13. April, Philadelphia, Pennsylvania, USA.

Banerjee, M., Zlatkin-Troitschanskaia, O., Schelle, C. & Kohmer, A. (2023). *Narrative Framing & Latent Meaning Structures of Online Information Used by Students in Their Critical Online Reasoning* [Paper presentation]. Presentation at WERA Focal Meeting 2023, November, Singapur.

### C07



### National

Brückner, S., Küchemann, S., Weber, M. & Klose, V. (2023). *Dispositionen, Strategien und Erfolg von Hochschulstudierenden im Umgang mit Online-Informationen – Projekt C07* [Symposium Presentation]. Presentation at AEPF, 15. September, Potsdam, Germany.

### International

Kohmer, A., Klose, V., Weber, M. (2024). *Aufgabenlösungsprozesse und –strategien beim Critical Online Reasoning von Medizinstudierenden – eine Eye-Tracking Studie* [Symposium Presentation]. Presentation at GMA Annual Meeting, 08. August, Fribourg, Switzerland.

Maur, A., Zlatkin-Troitschanskaia, O., Martin de los Santos, L., Shenavai, K., Fischer, J., Nagel, M.-T., & Schmidt, S. (2024). *A Performance and Response Process Data Triangulation to Identify Online Reasoning Patterns among Graduates* [Symposium Presentation]. Presentation at AERA, 13. April, Philadelphia, Pennsylvania, USA.

Küchemann et al. (2024). *How to Use ChatGPT: Strategies to Learn With Large Language Models in Physics Education* [Symposium Presentation]. Presentation at AERA, 13. April, Philadelphia, Pennsylvania, USA.

Kohmer, A., Klose, V., Nagel, M.-T., Fischer, J. & Martin de los Santos Klein, L. (2023). *Effects of Digital Training on “Critical Online Reasoning” among Young Professionals in Medicine: A Pre-Post-Study* [Paper presentation]. Presentation at WERA Focal Meeting 2023, November, Singapur.

## C08

### National

Abrami, G., Baumartz, D. & Mehler, A. (2025). DUUI: A Toolbox for the Construction of a new Kind of Natural Language Processing. *Proceedings of the DHd 2025: Under Construction*. Geisteswissenschaften und Data Humanities, 446–448. 10.5281/zenodo.14887461

Baumartz, D. (2023). *Dispositionen, Strategien und Erfolg von Hochschulstud* [Symposium Presentation]. Presentation at AEPF, 15. September, Potsdam, Germany.

### International

Abrami, G. & Mehler, A. (2024). Efficient, uniform and scalable parallel NLP pre-processing with DUUI: Perspectives and Best Practice for the Digital Humanities. *Digital Humanities Conference 2024 - Book of Abstracts (DH 2024)*, 15–18. 10.5281/zenodo.13761079