






 Publications

Thesis

-  **Reproducible Information Retrieval Research: From Principled System-Oriented Evaluations Towards User-Oriented Experimentation**, *Timo Breuer*, DuePublico 2023

Journal articles

-   **Validating Synthetic Usage Data in Living Lab Environments**, *Timo Breuer, Norbert Fuhr, Philipp Schaer*, JDIQ 2024
-  **An in-depth investigation on the behavior of measures to quantify reproducibility**, *Maria Maistro, Timo Breuer, Philipp Schaer, Nicola Ferro*, IPM 2023
-  **Relevance assessments, bibliometrics, and altmetrics: a quantitative study on PubMed and arXiv**, *Timo Breuer, Dirk Tunger, Philipp Schaer*, Scientometrics 2022
-  **Evaluation Infrastructures for Academic Shared Tasks**, *Johann Schaible, Timo Breuer, Narges Tavakolpoursaleh, Bernd Müller, Benjamin Wolff, Philipp Schaer*, Datenbank-Spektrum 2020

Conference proceedings

-  **Data Fusion of Synthetic Query Variants With Generative Large Language Models**, *Timo Breuer*, SIGIR-AP 2024, (to be published)
-   **Browsing and Searching Metadata of TREC**, *Timo Breuer, Ellen M. Voorhees, Ian Soboroff*, SIGIR 2024
-   **Toward Evaluating the Reproducibility of Information Retrieval Systems with Simulated Users**, *Timo Breuer and Maria Maistro*, ACM REP 2024
-  **Evaluation of Temporal Change in IR Test Collections**, *Jüri Keller, Timo Breuer, Philipp Schaer*, ICTIR 2024
-  **Replicability Measures for Longitudinal Information Retrieval Evaluation**, *Jüri Keller, Timo Breuer, Philipp Schaer*, CLEF 2024,
-   **Context-Driven Interactive Query Simulations Based on Generative Large Language Models**, *Björn Engelmann, Timo Breuer, Jana Isabelle Friese, Philipp Schaer, Norbert Fuhr*, ECIR 2024
-   **Simulating Users in Interactive Web Table Retrieval**, *Björn Engelmann, Timo Breuer, Philipp Schaer*, CIKM 2023
-    **Bibliometric Data Fusion for Biomedical Information Retrieval**, *Timo Breuer, Christin Katharina Kreutz, Philipp Schaer, Dirk Tunger*, JCDL 2023
-     **ir_metadata: An Extensible Metadata Schema for Information Retrieval Experiments**, *Timo Breuer, Jüri Keller, Philipp Schaer*, SIGIR 2022
-    **Validating Simulations of User Query Variants**, *Timo Breuer, Norbert Fuhr, Philipp Schaer*, ECIR 2022
-     **Evaluating Elements of Web-Based Data Enrichment for Pseudo-relevance Feedback Retrieval**, *Timo Breuer, Melanie Pest, Philipp Schaer*, CLEF 2021
-  **A Living Lab Architecture for Reproducible Shared Task Experimentation**, *Timo Breuer and Philipp Schaer*, ISI 2021
-     **repro_eval: A Python Interface to Reproducibility Measures of System-Oriented IR Experiments**, *Timo Breuer, Nicola Ferro, Maria Maistro, Philipp Schaer*, ECIR 2021
-     **How to Measure the Reproducibility of System-oriented IR Experiments**, *Timo Breuer, Nicola Ferro, Norbert Fuhr, Maria Maistro, Tetsuya Sakai, Philipp Schaer, Ian Soboroff*, SIGIR 2020
-  **Reproducible Online Search Experiments**, *Timo Breuer*, ECIR 2020

Workshop articles and activities

- 📄 **Report on the Workshop on Simulations for Information Access (Sim4IA 2024) at SIGIR 2024**, *Timo Breuer, Christin Katharina Kreutz, Norbert Fuhr, Krisztian Balog, Philipp Schaer et al.*, Sim4IA, SIGIR Forum
- 📄 **SIGIR 2024 Workshop on Simulations for Information Access (Sim4IA 2024)**, *Philipp Schaer, Christin Katharina Kreutz, Krisztian Balog, Timo Breuer, Norbert Fuhr*, Sim4IA, SIGIR 2024
- 📄 **The Two Sides of the Coin: Hallucination Generation and Detection with LLMs as Evaluators for LLMs**, *Anh Thu Maria Bui, Saskia Felizitas Brech, Natalie Hußfeldt, Tobias Jennert, Melanie Ullrich, Timo Breuer, Narjes Nikzad Khasmakhi, Philipp Schaer*, ELOQUENT, CLEF 2024
- 📄 **Leveraging Prior Relevance Signals in Web Search**, *Jüri Keller, Timo Breuer, Philipp Schaer*, LongEval, CLEF 2024
- 🔒 📄 **Evaluating Temporal Persistence Using Replicability Measures**, *Jüri Keller, Timo Breuer, Philipp Schaer*, LongEval, CLEF 2023
- 🔒 📄 **Overview of LiLAS 2021 - Living Labs for Academic Search**, *Philipp Schaer, Timo Breuer, Leyla Jael Castro, Benjamin Wolff, Johann Schaible, Narges Tavakolpoursaleh*, LiLAS, CLEF 2021
- 📄 **Relations Between Relevance Assessments, Bibliometrics and Altmetrics**, *Timo Breuer, Dirk Tunger, Philipp Schaer*, BIR, ECIR 2020
- 🔒 📄 **STELLA: Towards a Framework for the Reproducibility of Online Search Experiments**, *Timo Breuer, Philipp Schaer, Narges Tavakolpoursaleh, Johann Schaible, Benjamin Wolff, Bernd Müller*, OSIRRC, SIGIR 2019
- 🔒 📄 **Dockerizing Automatic Routing Runs for The Open-Source IR Replicability Challenge (OSIRRC 2019)**, *Timo Breuer and Philipp Schaer*, OSIRRC, SIGIR 2019
- 🔒 📄 **Replicability and Reproducibility of Automatic Routing Runs**, *Timo Breuer and Philipp Schaer*, CENTRE, CLEF 2019