Conrad Borchers

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Education_

Carnegie Mellon University

HUMAN-COMPUTER INTERACTION, PhD

University of Oxford

SOCIAL DATA SCIENCE, MSC

University of Tübingen

PSYCHOLOGY, BSC

Pittsburgh, PA 08/2022 - present Oxford, United Kingdom 10/2021 - 08/2022 Tübingen, Germany 10/2018 - 07/2021

Professional Experience _____

08/2022 -	Graduate Research Assistant, Human-Computer Interaction Institute, Carnegie Mellon University
02/2020 -	Research Affiliate, Lab of Christian Fischer, University of Tübingen
11/2021 - 07/202	2 Student Researcher and Team Lead, Oxford Artificial Intelligence Society
11/2021 - 07/202	2 Graduate Research Assistant, Saïd Business School, University of Oxford
05/2021 - 09/20	21 Research Intern, CAHL Lab (Zach Pardos), University of California, Berkeley
03/2021 - 06/20	21 Teaching Assistant (Cognitive Modeling) , Department of Computer Science, University of Tübingen
08/2020 - 01/20	21 Undergraduate Research Assistant, Tübingen School of Education
02/2019 - 07/20	20 Undergraduate Research Assistant, Leibniz Knowledge Media Research Center (IWM)

Publications _____

JOURNAL ARTICLES

- J5 Pardos, Z. A., Borchers, C., & Yu, R. (2023). Credit hours is not enough: Explaining undergraduate perceptions of course workload using LMS records. The Internet and Higher Education, 56, 100882. https://doi.org/10.1016/j.iheduc.2022.100882
- J4-Rosenberg, J., **Borchers, C.**, Burchfield, M., Anderson, D., Stegenga, S., & Fischer, C. (2022). How educational institutions reveal students' personally identifiable information on Facebook. Learning, Media and Technology. Advanced Online Publication. https://doi.org/10.1080/17439884.2022.2140672
- J3 Rosenberg, J., **Borchers, C.**, Burchfield, M., Anderson, D., Stegenga, S., & Fischer, C. (2022). Posts About Students on Facebook: A Data Ethics Perspective. Educational Researcher. Advanced Online Publication. https://doi.org/10.3102/0013189X221120538
- J2 Rosenberg, J., Burchfield, M., **Borchers, C.**, Gibbons, B., Anderson, D., & Fischer, C. (2021). Social media and students' privacy: What schools and districts should know. Phi Delta Kappan, 103(2), 49-53. https://doi.org/10.1177/00317217211051145
- J1 Rosenberg, J., Borchers, C., Dyer, E., Anderson, D. & Fischer, C. (2021). Understanding Public Sentiment About Educational Reforms: The Next Generation Science Standards on Twitter. AERA Open, 7(1), 1-17. https://doi.org/10.1177/23328584211024261

CONFERENCE PROCEEDINGS [PEER-REVIEWED]

- C3 **Borchers, C.** & Pardos, Z. A. (In-press). Insights into undergraduate pathways using course load analytics. In Proceedings of the 14th International Learning Analytics and Knowledge Conference (LAK). Arlington, TX. ACM. https://doi.org/10.1145/3576050.3576081
- C2 **Borchers, C.**, Rosenberg, J., Gibbons, B., Burchfield, M., & Fischer, C. (2021). To Scale or Not to Scale: Comparing Popular Sentiment Analysis Dictionaries on Educational Twitter Data. Proceedings of the 14th International Conference on Educational Data Mining (EDM). Paris, France.

C1 – Burchfield, M., Rosenberg, J., **Borchers, C.**, Thomas, T., Gibbons, B., & Fischer, C. (2021). Are Violations of Student Privacy "Quick and Easy"? Investigating the Privacy of Students' Images and Names in the Context of K-12 Educational Institution's Posts on Facebook. Proceedings of the 14th International Conference on Educational Data Mining (EDM). Paris, France.

WORKSHOP PUBLICATIONS [PEER-REVIEWED]

W1 – **Borchers, C.**, Gala, D. S., Gilburt, B., Oravkin, E., Bounsi, W., Asano, Y. M., & Kirk, H. R. (2022). Looking for a Handsome Carpenter! Debiasing GPT-3 Job Advertisements. Proceedings of the 4th Workshop on Gender Bias in Natural Language Processing (NAACL).

STUDENT-LED CONFERENCES, WHITE PAPERS, AND BLOG POSTS

- M3 **Borchers, C.** (2020). Die Replikationskrise in der Psychologie Reflexionen und Implikationen für die Erziehungswissenschaft. [The Replication Crisis in Psychology Reflections and Implications for Pedagogy]. Dynamiken des Pädagogischen Perspektiven auf Studium, Theorie und Praxis. Budrich.
- M2 **Borchers, C.**, Rosenberg, J., & Fischer, C. (2020). An Examination of the #NGSSchat Storify Database. https://doi.org/10.31219/osf.io/4tafx
- M1 **Borchers, C.**, Ferdinand, J., & Fischer, C. (2020). Inquiry-based Learning: Forschendes Lernen im Unterricht. [Inquiry-based learning in classroom instruction]. https://lead.schule/blog/forschendes-lernen-im-unterricht/

Presentations & Invited Talks

CONFERENCE PRESENTATIONS

- P4 Fischer, C., Morina, F., **Borchers, C.**, Klein, L., & Eich, M. (2022, April). Informal Professional Development in Online Communities of Practice at Scale: Mapping Nationwide Educational Twitterspheres. Paper to be presented at the 2022 Annual Meeting of the American Educational Research Association, San Diego, CA.
- P3 **Borchers, C.**, Eder, T., & Scheiter, K. (2021, September). How Effective is Reflective search? A Time Slice Analysis of Dentistry Students' Visual Search Strategies and Pupil Dilation during Diagnosing Radiographs. 2nd Workshop on Mental Effort, Virtual Conference.
- P2 Rosenberg, J., **Borchers, C.**, Gibbons, B., Dyer, E., Anderson, D., & Fischer, C. (2021, April). Don't worry, be happy? A sentiment analysis of the #NGSSchat Twitter community. Paper at the 2021 annual meeting of the American Educational Research Association, Virtual Conference.
- P1 Fischer, C., Morina, F., **Borchers, C.**, & Klein, L. (2021, March). Using Big Data to Support Educational Change: Twitter as a Platform for Informal Professional Development. Paper presented at the 2021 annual meeting of the Leibniz Education Research Network, Hannover, Germany.

INVITED TALKS

- T2 Borchers, C. (2022, October). Debiasing GPT-3 Job Ads. The Data Skeptic Podcast hosted by Kyle Polich.
- T1 **Borchers, C.** (2022, September). Leveraging data science to improve educational processes: From K-12 student privacy on social media to higher education student workload. Invited talk at the Department of Theory & Practice in Teacher Education, University of Tennessee, Knoxville.

Awards, Fellowships, & Grants ______

- 2022 LearnLab Summer School Participant (ITS Track), Carnegie Mellon University
- 2022 Merck Innovation Cup '22 Participant, Merck KGaA (Merck Group)
- 2021 Best Poster Award, 14th International Conference on Educational Data Mining
- 2021 Learning Engineering Fellow, EPIC@Berkeley UC Berkeley GSE & Schmidt Futures
- 2019-2020 Research Fellow, European Federation of Psychology Students Associations (EFPSA)
 - 2018 BSc and MSc Scholarship, German Academic Scholarship Foundation (Studienstiftung)

Teaching Experience _____

TEACHING ASSISTANT

Spring 2021 **Cognitive Modeling**, Department of Computer Science, University of Tübingen, Germany WORKSHOPS

Fall 2022 Sentence Embeddings for Twitter Research, Introduction to Data Science Methods in Education, University of Tennessee, Knoxville; GitHub: https://tinyurl.com/sembutk

Service to the Academic Community _____

PEER REVIEW

2023 ISLS, Conference Proceedings

2021-2022 AERA, Annual Meeting Proceedings