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 - 07/2022	Student Researcher and Team Lead, Oxford Artificial Intelligence Society
11/2021 - 07/2022	Graduate Research Assistant, Saïd Business School, University of Oxford
05/2021 - 09/2021	Research Intern, CAHL Lab (Zach Pardos), University of California, Berkeley
03/2021 - 06/2021	Teaching Assistant (Cognitive Modeling), Department of Computer Science, University of Tübingen
08/2020 - 01/2021	Undergraduate Research Assistant, Tübingen School of Education
02/2019 - 07/2020	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 _____ 2023 GSA Conference Funding (LAK '23) - \$750, Carnegie Mellon University GuSH Graduate Research Grant (Scaffolding Effects on Problem-Solving in Intelligent 2023 Tutoring Systems) - \$750, Carnegie Mellon University OII Thesis Prize for Best MSc Dissertation, Oxford Internet Institute 2022 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 2023 Tools for Online Learning, School of Computer Science, Carnegie Mellon University Spring 2021 Cognitive Modeling, Department of Computer Science, University of Tübingen, Germany WORKSHOPS Sentence Embeddings for Twitter Research, Introduction to Data Science Methods in Fall 2022 Education, University of Tennessee, Knoxville; GitHub: https://tinyurl.com/sembutk Mentoring _____ Spring 2023 Jialin Ye, MHCI Independent Study, Carnegie Mellon University Spring 2023 Avani Guduri, Undergraduate Independent Study, Carnegie Mellon University Tianze Shou (with Shamya Karumbaiah), Extending REU Summer Intern Work into a Fall 2022 Submission to EDM '23, Carnegie Mellon University Service to the Academic Community_____ PEER REVIEW

COMMITTEE WORK

2023 ISLS, Conference Proceedings2021-2022 AERA, Annual Meeting Proceedings

2023 **REU Summer Intern Admissions Committee**, Carnegie Mellon University

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