Mike Schaekermann

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OVERVIEW

My research focuses on developing methods to capture and utilize the structure of ambiguous classification problems in the context of human-centered machine learning and human-AI collaboration. My work has a special focus on medical data analysis.

EDUCATION

Ph.D. Candidate, Computer Science — 2016 - 2020 (expected)
University of Waterloo, ON, Canada
Advisors: Edith Law and Kate Larson

Bachelor of Science in Engineering, Media Informatics — 2014
Salzburg University of Applied Sciences, Austria
Thesis Supervisor: Lennart Nacke

Staatsexamen (equivalent to Bachelors), Medicine — 2011
University of Marburg, Germany

AWARDS & HONOURS

Google PhD Fellowship ($45,000/year) — 2018-2020
Best Paper, ACM CSCW — 2018
Graduate Excellence Scholarship ($5,000) — UWaterloo — 2017
David R. Cheriton Graduate Scholarship ($10,000) — UWaterloo — 2016
International Doctoral Student Award ($11,760/year) — UWaterloo — 2016
Amazon Web Services Research Grant ($7,000) — Amazon — 2016
Merit-based Scholarship — Salzburg University of Applied Sciences — 2014
Merit-based Scholarship for Foreign Studies — 2014
Engineering Scholarship — both Economic Chamber of Salzburg — 2013
Nominee for the German National Academic Foundation — 2009

CONFERENCE PAPERS

Trusted AI and the Contribution of Trust Modeling in Multiagent Systems. Cohen, R., Schaekermann, M., Liu, S., & Cormier, M. **AAMAS'19**. Montréal.

Resolvable vs. Irresolvable Disagreement: A Study on Worker Deliberation in Crowd Work. Schaekermann, M., Goh, J., Larson, K., & Law, E. **CSCW'18**. New York City, NY. [**Best Paper Award**]

Curiously Motivated: Profiling Curiosity with Self-Reports and Behaviour Metrics in the Game Destiny. Schaekermann, M., Ribeiro, G., Wallner, G., Kriglstein, S., Johnson, D., Drachen, A., & Nacke, L. E. **CHI PLAY'17**. Amsterdam, Netherlands.

Online Bayesian Transfer Learning for Sequential Data Modeling. Jaini, P., Chen, Z., Carbajal, P., Law, E., Middleton, L., Regan, K., Schaekermann, M., Trimponias, G., Tung, J., & Poupart, P. **ICLR'17**. Toulon, France.

Testing Incremental Difficulty Design in Platformer Games. Wehbe, R. R., Mekler, E. D., Schaekermann, M., Lank, E., & Nacke, L. E. **CHI'17**. Denver, CO.

WORKSHOP PAPERS & ABSTRACTS

crowdEEG: A Platform for Structured Consensus Formation in Medical Time Series Analysis. Schaekermann, M., Beaton, G., Habib, M., Lim, A., Larson, K., & Law, E. 8th Workshop on Interactive Systems in Healthcare (WISH) at **CHI'19**. Glasgow, UK.

Capturing Expert Arguments from Medical Adjudication Discussions in a Machine-readable Format. Schaekermann, M., Beaton, G., Habib, M., Lim, A., Larson, K., & Law, E. 2nd Workshop on Subjectivity, Ambiguity and Disagreement (SAD) in Crowdsourcing at **WebConf'19**. San Francisco, CA.

Utilizing a wearable smartphone-based EEG for pediatric epilepsy patients in the resource poor environment of Guinea: A prospective study. Williams, J., Cisse, F.A., Schaekermann, M., Sakadi, F., Tassiou, N.R., Bah, A.K., Hamani, A.B.D., Lim, A., Leung, E.C.W., Fantaneau, T.A., Milligan, T., Khatri, V., Hoch, D., Vyas, M., Lam, A., Hotan, G., Cohen, J., Law, E., & Mateen, F. Annual Meeting of the American Academy of Neurology **AAN'19**. Philadelphia, PA.

Expert Disagreement in Sequential Labeling: A Case Study on Adjudication in Medical Time Series Analysis. Schaekermann, M., Lim, A., Larson, K., & Law, E. 1st Workshop on Subjectivity, Ambiguity and Disagreement (SAD) in Crowdsourcing at **HCOMP'18**. Zurich, Switzerland.

Resolvable vs. Irresolvable Ambiguity: A New Hybrid Framework for Dealing with Uncertain Ground Truth. Schaekermann, M., Law, E., Williams, A. C., & Callaghan, W. Workshop on Human-Centered Machine Learning at **CHI'16**. San Jose, CA.

CONFERENCE WORKSHOPS

Subjectivity, Ambiguity and Disagreement in Crowdsourcing. Co-chaired with Chris Welty, Lora Aroyo, Praveen Paritosh, Anca Dumitrache, Jennimaria Palomaki, Alex Quinn, Olivia Rheinhart, & Michael Tseng at **WebConf'19**.

Designing for Curiosity: an Interdisciplinary Workshop. Co-organized with Edith Law, Pierre-Yves Oudeyer, Ming Yin, & Alex Williams at **CHI'17**.

RESEARCH & WORK EXPERIENCE

Student Researcher, Google Brain, Mountain View, CA 2018 - present

Research Intern, Google Brain, Mountain View, CA 2018

Visiting Researcher, Inria Bordeaux, France 2017

Software Engineering Intern, Google, Mountain View, CA 2017

Entrepreneur, SpontaneousOrder GmbH, Berlin, Germany 2011 - 2015

Visiting Researcher, Ontario Tech University, ON, Canada 2013 - 2014

Research Assistant, University Medical Center, Marburg, Germany 2009 - 2010

SELECTED PROJECTS

crowdEEG.ca
Framework to combine machine and human intelligence for the scalable and accurate analysis of human clinical EEG recordings. This is an active research project in the HCI CrowdLab at the University of Waterloo, Canada, led by professor Edith Law.

3D Simulation of the Human Endocrine System
Real-time 3D simulation of the hypothalamic-pituitary-adrenal (HPA) axis, a part of the human neuro-endocrine system. Final project for "Simulation Methods in Physiology and Neurobiology" at medical school of University of Marburg, Germany.

SERVICE & LEADERSHIP

Journal Reviewer: ACM Transactions on Interactive Intelligent Systems (2017)
Conference Reviewer: CHI (2017, 2018, 2019), CSCW (2018), CHI PLAY (2016)
Program Committee: CrowdBias 2018, HumBL 2019
Other: Advisor for incoming international students (2012), and president of the students council (2013) at Salzburg University of Applied Sciences, Austria