Mike Schaekermann

49 Columbia St W, Unit 101
Waterloo, ON N2L 3K4
mschaeke@uwaterloo.ca
+1 (647) 573-2908

https://cs.uwaterloo.ca/~mschaeke/

OVERVIEW

My research focuses on developing methods to combine the power of human and machine intelligence for solving computational problems, with a special focus on the analysis of medical time series data. I am particularly interested in devising frameworks for the analysis of ambiguous edge cases to make machines more trustworthy and humans better learners.

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 — 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

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.

POSITION PAPERS

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

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

WORK EXPERIENCE

Student Researcher 2018
Google Brain, Mountain View, CA

Research Intern 2018
Google Brain, Mountain View, CA

Visiting Researcher 2017
Inria, FLOWing Epigenetic Robots and Systems Lab, France

Software Engineering Intern 2017
Google, Mountain View, CA

Entrepreneur 2011 - 2015
SpontaneousOrder GmbH, Berlin, Germany

Visiting Researcher 2013 - 2014
University of Ontario Institute of Technology, ON, Canada

Research Assistant at Core-Unit "BrainImaging" 2009 - 2010
University Medical Center, Marburg, Germany

PRESENTATIONS

Resolvable vs. Irresolvable Ambiguity: A New Hybrid Framework for Dealing with Uncertain Ground Truth. (see above) 2016
Workshop on Human-Centered Machine Learning at CHI 2016, San Jose, CA.

Hacking Brain-Computer Interfaces 2015
Singularity Meets Self-Improvement (SMSI) Meetup, Berlin, Germany

SELECTED PROJECTS

CrowdEEG
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), CSCW (2018), CHI PLAY (2016)
Program Committee: CrowdBias 2018
Other: Advisor for incoming international students (2012), and president of the students council (2013) at Salzburg University of Applied Sciences, Austria