

Mike Schaekermann

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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 University of Waterloo, ON, Canada Advisors: Edith Law and Kate Larson	2016 - 2020 (expected)
Bachelor of Science in Engineering , Media Informatics Salzburg University of Applied Sciences, Austria Thesis Supervisor: Lennart Nacke	2014
Staatsexamen (equivalent to Bachelors), Medicine University of Marburg, Germany	2011

AWARDS & HONOURS

Google PhD Fellowship	2018-2020
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.

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 Google Brain, Mountain View, CA	2018
	Research Intern Google Brain, Mountain View, CA	2018
	Visiting Researcher Inria, FLOWing Epigenetic Robots and Systems Lab, France	2017
	Software Engineering Intern Google, Mountain View, CA	2017
	Entrepreneur SpontaneousOrder GmbH, Berlin, Germany	2011 - 2015
	Visiting Researcher University of Ontario Institute of Technology, ON, Canada	2013 - 2014
	Research Assistant at Core-Unit “BrainImaging” University Medical Center, Marburg, Germany	2009 - 2010
PRESENTATIONS	Resolvable vs. Irresolvable Ambiguity: A New Hybrid Framework for Dealing with Uncertain Ground Truth. (see above) Workshop on Human-Centered Machine Learning at CHI 2016, San Jose, CA.	2016
	Hacking Brain-Computer Interfaces Singularity Meets Self-Improvement (SMSI) Meetup, Berlin, Germany	2015
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	