

Mike Schaekermann

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OVERVIEW	My research interest is at the intersection of machine learning and human-computer interaction. In particular, I look at how the power of human and machine intelligence may be combined to solve problems too hard to be tackled by computational methods alone. My work in this topic revolves around the analysis of medical time series data.		
EDUCATION	Ph.D. Candidate		2016 - Present
	University of Waterloo, ON, Canada Computer Science Advisors: Edith Law and Kate Larson		
	Bachelor of Science in Engineering		2014
	Salzburg University of Applied Sciences, Austria Media Informatics Thesis Supervisor: Lennart Nacke		
	Staatsexamen (equivalent to Bachelors)		2011
	University of Marburg, Germany Medicine		
AWARDS & HONOURS	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 WORKSHOPS	Designing for Curiosity: an Interdisciplinary Workshop. Co-organized with Edith Law, Pierre-Yves Oudeyer, Ming Yin, & Alex Williams at CHI'17 .		
CONFERENCE PAPERS	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	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.		

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
	Implicit Surface Modeling for 3D Printing WebGL Meetup, Berlin, Germany	2015
WORK EXPERIENCE	Software Engineering Intern Google, Mountain View, CA	2016
	Entrepreneur SpontaneousOrder GmbH, Berlin, Germany	2011 - 2015
	Visiting Researcher Games and Media Entertainment Research Laboratory University of Ontario Institute of Technology, ON, Canada	2013 - 2014
	Tutor for Applied Mathematics Salzburg University of Applied Sciences, Austria	2012 - 2013
	Research Assistant at Core-Unit “BrainImaging” University Medical Center, Marburg, Germany	2009 - 2010
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. This was done as final project for a course on “Simulation Methods in Physiology and Neurobiology” at the medical school of the University of Marburg, Germany.	
	Implicit Surface Modeling for 3D Printing Web application enabling real-time customization and animation of 3D-printable objects. It makes use of implicit surfaces, raymarching and the iso-surface extraction algorithm Marching Cubes.	
SERVICE & LEADERSHIP	Journal Reviewer: ACM Transactions on Interactive Intelligent Systems (TiiS) Special Issue on Human-Centered Machine Learning (2017) Conference Reviewer: CHI (2017), CHI PLAY (2016) Membership: Association for Computing Machinery (ACM) Involvement with Academic Institution: Advisor for incoming international students (2012), and president of the students council (2013) at Salzburg University of Applied Sciences, Austria	