

**Geza Kovacs****geza@cs.stanford.edu****gkovacs.com**

EDUCATION	<b>Stanford University</b>	PhD	Computer Science	GPA: 4.0/4.0	2013 – now
	<b>Massachusetts Institute of Technology</b>	BS+MEng	Computer Science	GPA: 5.0/5.0	2008 – 2013
INDUSTRY EXPERIENCE	<b>Microsoft Research</b> – Research Intern, Redmond				Summer 2015
	Designed and built an educational social feed app usable by pre-literate children. Published at CSCW 2017.				
	<b>Microsoft Research</b> – Research Intern, Beijing				Summer 2014
	Built a quiz-driven MOOC lecture viewer that improved learning outcomes. Published at CHI EA 2015.				
	<b>Google Research</b> – Software Engineering Intern, Mountain View				Summer 2013
	Developed a machine learning system for detecting taps on the phone bezel, for use in Android input methods.				
	<b>Google</b> – Software Engineering Intern, Mountain View				Summer 2012
RESEARCH HIGHLIGHTS	Developed an NLP system to detect vocabulary and generate glossaries from book text (used MapReduce).				
	<b>Google</b> – Software Engineering Intern, Mountain View				Summer 2011
	Developed a machine learning system to predict the quality of user reviews, now deployed on Google Play.				
	<b>Microsoft</b> – Software Development Engineer Intern, Redmond – worked on compilers				Summer 2010
	<b>Google</b> – Summer of Code – worked on FFmpeg (open-source video transcoding library)				Summer 2009
	<b>HabitLab: Personalized Interventions for Better Online Habits</b> – published at CHI 2019 and CSCW 2018				
	I built HabitLab ( <a href="http://habitlab.stanford.edu/">http://habitlab.stanford.edu/</a> ), an app for Chrome + Android with <i>12,000+ daily active users</i> which helps users reduce time online. I used HabitLab for a variety of machine learning and data science work:				
OPEN-SOURCE PROJECTS	<ul style="list-style-type: none"> <li>• Predicted changes in users' intervention preferences over time (using <b>LSTM Networks</b>; Python/PyTorch)</li> <li>• Analyzed time redistribution effects caused by interventions (using <b>Mixed Models</b>; R/Python/SciPy)</li> <li>• Analyzed effects of rotating interventions on effectiveness and attrition (<b>Cox Regression</b> and <b>LMM</b>; R)</li> <li>• Personalized interventions to each user based on effectiveness (using <b>Reinforcement Learning</b>; Python)</li> <li>• Predicted time spent on webpages, based on browsing visit history data (using <b>Random Forests</b>; Python/H2O)</li> </ul>				
	<b>Effects of In-Video Quizzes on MOOC Lecture Viewing</b> – published at Learning at Scale 2016				
	<ul style="list-style-type: none"> <li>• A <b>large-scale data mining</b> analysis of Coursera's in-video interaction logs in Machine Learning courses, analyzing effects of in-video quizzes on users' video viewing and seeking behavior (Python/Hadoop/Pandas)</li> </ul>				
	Smart Subtitles for Foreign Language Learning – published at CHI 2014				
	EduFeed: A Social Feed to Engage Preliterate Children in Educational Activities – published at CSCW 2017				
	FeedLearn: Microlearning in Facebook Feeds – published at CHI EA 2015				
	QuizCram: Question-Driven Video Viewing – published at CHI EA 2015				
RELEVANT COURSEWORK	GrammarVis: Visualizing the Grammar of Foreign Languages – published at UIST 2013 demo				
	ScreenMatch: Visual Context for Software Translators – published at CHI EA 2012				
SKILLS AND TECHNOLOGIES	<b>UNetbootin (LiveUSB Creator)</b> – <a href="http://unetbootin.github.io/">http://unetbootin.github.io/</a> <a href="https://en.wikipedia.org/wiki/UNetbootin">https://en.wikipedia.org/wiki/UNetbootin</a>				
	40 million downloads. UNetbootin creates bootable USB flash drives for various (50+) Linux distributions.				
	<b>Ubuntu Installer for Windows (Wubi)</b> <a href="https://en.wikipedia.org/wiki/Wubi_(software)">https://en.wikipedia.org/wiki/Wubi_(software)</a>				
	Now part of Ubuntu. Built the first versions of Wubi, which allows Ubuntu to be installed from Windows.				
	<b>Deep Learning</b> (CS 230), <b>Natural Language Processing</b> (6.864, 6.863), Artificial Intelligence (6.034), Data Mining (CS 224w), Statistical Models (6.804), Statistics (18.440), Linear Algebra (18.700), Security (6.857), Bioinformatics (6.047), HCI (6.803), Algorithms (6.006, 6.046), Linguistics (24.900), Compilers (CS 143)				
	<b>Programming:</b> Python, JavaScript, C/C++, R, Java, Scala, C#, Ruby, TypeScript, CoffeeScript, Haskell, Bash				
	<b>Machine Learning:</b> PyTorch, sklearn, Keras, TensorFlow, H2O, RL, Deep Learning (RNN/LSTM/CNN/GAN)				
	<b>Natural Language Processing:</b> NLTK, skip-grams, word2vec, GloVe, Attention Networks, HMM, PCFG				
	<b>Data Mining:</b> NumPy, SciPy, Pandas, NetworkX, Hadoop, MapReduce, H2O, SQL, NoSQL (MongoDB/Redis)				
	<b>Data Science:</b> Mixed models, Survival analysis, Experiment design, A/B testing, Multi-armed bandits, mTurk				
	<b>Web Development:</b> HTML/CSS/JS, Node.js, Flask, Polymer, D3.js, React, Flow, Webpack, MongoDB, Redis				
	<b>Mobile Development:</b> Cross-platform JS (Cordova, NativeScript), Android (Java), Responsive Web Design				

AWARDS AND HONORS	<p>Stanford Human-Centered AI Grant (for my research project HabitLab), 2018</p> <p>National Defense Science and Engineering Graduate Fellowship, 2013</p> <p>National Science Foundation Graduate Research Fellowship, 2013</p> <p>1<sup>st</sup> place, Most Useful, ACM UIST (User Interface Software and Technology) Student Innovation Contest, 2012</p> <p>1<sup>st</sup> place, ACM CHI (Conference on Human Factors in Computing Systems) Student Research Competition, 2012</p> <p>1<sup>st</sup> place, MIT Autonomous Robotics Competition (Maslab), 2010</p>
TEACHING EXPERIENCE	<p><b>Understanding Users (CS 377U)</b> – Teaching Assistant, at Stanford <i>Spring 2019</i></p> <p><b>Human Computer Interaction Research (CS 376)</b> – Teaching Assistant, at Stanford <i>Fall 2018</i></p> <p><b>Natural Language Processing (6.863)</b> – Teaching Assistant, at MIT <i>Fall 2012</i></p> <p><b>Introduction to C++ IAP (6.096)</b> – Instructor, at MIT <i>January 2011</i></p> <p>My lectures and teaching materials for this course are available on MIT OpenCourseWare:  <a href="http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-096-introduction-to-c-january-iap-2011">http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-096-introduction-to-c-january-iap-2011</a></p> <p><b>MASLAB Mobile Autonomous Systems Lab (6.186)</b> – Software Director, at MIT <i>January 2011</i></p> <p>Gave lectures on computer vision and managed the software stack for an autonomous robotics competition.</p>
JOURNAL AND CONFERENCE PAPERS	<p><b>Geza Kovacs</b>, Drew Mylander Gregory, Zilin Ma, Zhengxuan Wu, Golrokh Emami, Jacob Ray, Michael Bernstein. “Conservation of Procrastination: Do Productivity Interventions Save Time Or Just Redistribute It?” ACM annual conference on Human Factors in Computing Systems (CHI) 2019.</p> <p><b>Geza Kovacs</b>, Zhengxuan Wu, Michael Bernstein. “Rotating Online Behavior Change Interventions Increases Effectiveness But Also Increases Attrition.” ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) 2018.</p> <p>Rajan Vaish, Neil Gaikwad, <b>Geza Kovacs</b>, Andreas Veit, Ranjay Krishna, Imanol Arrieta Ibarra, Camelia Simoiu, Michael Wilber, Serge Belongie, Sharad Goel, James Davis, Michael Bernstein. “Crowd Research: Open and Scalable University Laboratories.” ACM Symposium on User Interface Software and Technology (UIST) 2017.</p> <p>Kiley Sobel, <b>Geza Kovacs</b>, Galen McQuillen, Andrew Cross, Nirupama Chandrasekaran, Nathalie Riche, Ed Cutrell, Meredith Morris. “EduFeed: A Social Feed to Engage Preliterate Children in Educational Activities.” ACM annual conference on Computer Supported Collaborative Work (CSCW) 2017.</p> <p><b>Geza Kovacs</b>. “Effects of In-Video Quizzes on MOOC Lecture Viewing.” ACM annual conference on Learning at Scale (L@S) 2016.</p> <p><b>Geza Kovacs</b> and Robert C. Miller. “Smart Subtitles for Vocabulary Learning.” ACM annual conference on Human Factors in Computing Systems (CHI) 2014.</p>
PEER-REVIEWED EXTENDED ABSTRACTS	<p>Stanford Crowd Research, <b>Geza Kovacs</b>, Rajan Vaish, Michael Bernstein. “Daemon: A Self-Governed Crowdsourcing Marketplace”. ACM Symposium on User Interface Software and Technology (UIST) 2015, Poster.</p> <p><b>Geza Kovacs</b>. “FeedLearn: Using Facebook Feeds for Microlearning.” ACM annual conference on Human Factors in Computing Systems (CHI) 2015, Extended Abstracts.</p> <p><b>Geza Kovacs</b>. “QuizCram: A Question-Driven Video Studying Interface.” ACM annual conference on Human Factors in Computing Systems (CHI) 2015, Extended Abstracts.</p> <p>Joseph Jay Williams, <b>Geza Kovacs</b>, Caren Walker, Samuel G Maldonado, Tania Lombrozo. “Learning Online via Prompts to Explain.” ACM annual conference on Human Factors in Computing Systems (CHI) 2014, Extended Abstracts.</p> <p><b>Geza Kovacs</b> and Robert C. Miller. “Foreign Manga Reader: Learn Grammar and Pronunciation while Reading Comics.” ACM Symposium on User Interface Software and Technology (UIST) 2013, Demo.</p> <p><b>Geza Kovacs</b>. “Smart Subtitles for Language Learning.” ACM annual conference on Human Factors in Computing Systems (CHI) 2013, Extended Abstracts.</p> <p><b>Geza Kovacs</b>. “ScreenMatch: providing context to software translators by displaying screenshots.” ACM annual conference on Human Factors in Computing Systems (CHI) 2012, Extended Abstracts.</p>