| Geza | Kov | Iacs |
|------|-----|------|
| GELA | 110 | uus  |

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| EDUCATION                  | Stanford University<br>Massachusetts Institute of Technology   | PhD<br>BS+MEng   | Computer Science<br>Computer Science  | GPA: 4.0/4.0<br>GPA: 5.0/5.0  | 2013 – now<br>2008 – 2013   |  |  |
|----------------------------|--|--|---|---|---|--|--|
| Industry<br>Experience     | Microsoft Research – Research Intern, R<br>Microsoft Research – Research Intern, B   |  |   |   | Summer 2015<br>Summer 2014  |  |  |
|                            | <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.  |  |   |   |   |  |  |
|                            | Google – Software Engineering Intern, Mountain View  Summer 2012  Developed an NLP system to detect vocabulary and generate glossaries from book text (used MapReduce).  |  |   |   |   |  |  |
|                            | Google – Software Engineering Intern, M<br>Developed a machine learning system to p  |  | ılity of user reviews, 1  | now deployed on   | Summer 2011<br>Google Play.   |  |  |
|                            | Microsoft – Software Development Engir<br>Google – Summer of Code – worked on F  |  |   | -   | Summer 2010<br>Summer 2009  |  |  |
| RESEARCH<br>HIGHLIGHTS     | Large-scale Data Science Experiments HabitLab is an online experimentation pl. PhD at Stanford. I have used it to conduct • Predicted changes in users' interven • Analyzed time redistribution effects • Analyzed effects of rotating interve • Personalized interventions to each u • Predicted time spent on webpages, b  Effects of In-Video Quizzes on MOOC Le  | atform with 1 at a variety of dition preference caused by intentions on effective based on brows | 2,000+ daily active use at a science experiment es over time (using LS terventions (using mixitiveness and attrition effectiveness (using raing visit history data) | sers that I develous and machine STM networks; ked models; R/P (cox regression einforcement legusing random for the standard | oped during my learning work: Python/PyTorch) ython/SciPy) and LMM; R) arning; Python) orests; Python/H2O |  |  |
|                            | A large-scale data mining analysis<br>analyzing effects of in-video quizzes  ANALYSE Grant Company  ANALYSE Gran | s on users' vid  | eo viewing and seekin   | g behavior (Pyth  | on/Hadoop/Pandas)   |  |  |
| OPEN-SOURCE<br>PROJECTS    |  |  |   |   |   |  |  |
|                            | Ubuntu Installer for Windows (Wubi)  Now part of Ubuntu. Built the first version   | ns of Wubi, w  | •   | wikipedia.org/wik<br>be installed from  |   |  |  |
| TEACHING<br>EXPERIENCE     | Natural Language Processing (6.863) at<br>Human Computer Interaction Research (C<br>Understanding Users (CS 377U) at Stanfo  | earch (CS 376) at Stanford – Teaching Assistant  |   | Fall 2012<br>Fall 2018<br>Spring 2019   |   |  |  |
| RELEVANT<br>COURSEWORK     | <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)   |  |   |   |   |  |  |
| SKILLS AND<br>TECHNOLOGIES | Programming: Python, R, JavaScript, Java, C, C++, C#, Scala, Ruby, CoffeeScript, LiveScript, Haskell, Bash Machine Learning: PyTorch, scikit-learn, Keras, TensorFlow, Deep Learning (RNN/LSTM/CNN/GAN), RL Natural Language Processing: NLTK, skip-grams, word2vec, GloVe, Attention Networks, HMM, PCFG Data Mining: NumPy, SciPy, Pandas, NetworkX, Hadoop, MapReduce, H2O, SQL, NoSQL (MongoDB/Redis) Data Science: Mixed models, Survival analysis, Experiment design, A/B testing, Multi-armed bandits, mTurk Data Analysis: Jupyter, RStudio, Visualization (D3.js/ggplot2/Plotly/Bokeh), Clustering, Sentiment Analysis Full-Stack Engineering: Node.js, Flask, MongoDB, Redis, PostgreSQL, Flow, TypeScript, Webpack, EC2 Web / Mobile: HTML/CSS/JS, Polymer, React, Android (Java, Cordova, NativeScript), Responsive Design   |  |   |   |   |  |  |
| AWARDS AND<br>HONORS       | Stanford Human-Centered AI Grant (for r<br>National Defense Science and Engineerin<br>National Science Foundation Graduate Re<br>1 <sup>st</sup> place, Most Useful, ACM UIST (User I<br>1 <sup>st</sup> place, ACM CHI (Conference on Human<br>1 <sup>st</sup> place, MIT Autonomous Robotics Con   | g Graduate Fe<br>esearch Fellow<br>Interface Softwa<br>Factors in Con                            | ellowship, 2013<br>Veship, 2013<br>are and Technology) Studenputing Systems) Stude  | udent Innovation  |   |  |  |

JOURNAL AND CONFERENCE PAPERS **Geza Kovacs**, 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.

**Geza Kovacs**, 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.

Rajan Vaish, Neil Gaikwad, **Geza Kovacs**, 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.

Kiley Sobel, **Geza Kovacs**, 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.

**Geza Kovacs**. "Effects of In-Video Quizzes on MOOC Lecture Viewing." ACM annual conference on Learning at Scale (L@S) 2016.

**Geza Kovacs** and Robert C. Miller. "Smart Subtitles for Vocabulary Learning." ACM annual conference on Human Factors in Computing Systems (CHI) 2014.

PEER-REVIEWED EXTENDED ABSTRACTS Stanford Crowd Research, **Geza Kovacs**, Rajan Vaish, Michael Bernstein. "Daemo: A Self-Governed Crowd-sourcing Marketplace". ACM Symposium on User Interface Software and Technology (UIST) 2015, Poster.

**Geza Kovacs**. "FeedLearn: Using Facebook Feeds for Microlearning." ACM annual conference on Human Factors in Computing Systems (CHI) 2015, Extended Abstracts.

**Geza Kovacs**. "QuizCram: A Question-Driven Video Studying Interface." ACM annual conference on Human Factors in Computing Systems (CHI) 2015, Extended Abstracts.

Joseph Jay Williams, **Geza Kovacs**, 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.

**Geza Kovacs** 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.

**Geza Kovacs**. "Smart Subtitles for Language Learning." ACM annual conference on Human Factors in Computing Systems (CHI) 2013, Extended Abstracts.

**Geza Kovacs**. "ScreenMatch: providing context to software translators by displaying screenshots." ACM annual conference on Human Factors in Computing Systems (CHI) 2012, Extended Abstracts.