

# SKYLER SETO

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EDUCATION	<b>Cornell University</b> Ph.D. in Statistics M.Sc. in Computer Science Advising: Martin T. Wells, Andrew G. Wilson, Thorsten Joachims <b>Massachusetts Institute of Technology</b> B.Sc. in Mathematics with Computer Science	<b>August 2014 - August 2020</b> <b>September 2010 - June 2014</b>
RESEARCH INTERESTS	My research interests are at the intersections of adaptive and conditional computation, model compression, and model fairness and robustness. I work on developing models and algorithms that adaptively use model compute and data to better generalize based on inherent data difficulty.	
WORK EXPERIENCE	<b>Apple ML Research</b> ◦ Developing algorithms for efficient model learning based on inherent data difficulty ◦ Developing methods for evaluation of talking faces <b>Toyota and Tohoku University</b> ◦ Developed MIP models for e-Palette passenger travel routing and pricing <b>Amazon Alexa Speech and ML Group</b> ◦ Experimented with neural architectures for text normalization and tokenization <b>Riot Games Data Science Team</b> ◦ Used online time series forecasting models to detect network connection anomalies <b>MIT Anyscale Learning For All Group</b> ◦ Built tools and models for car destination prediction and trip signal forecasting	<b>Sep 2020 - Present</b> <b>June 2018 - August 2018</b> <b>May 2017 - August 2017</b> <b>May 2016 - August 2016</b> <b>May 2015 - August 2015</b>
RECENT PUBLICATIONS	<b>Selected Publications</b> ◦ Aldeneh, Z., Fedzechkina, M., <b>Seto, S.</b> , Metcalf, K., Sarabia, M., Apostoloff, N., and Theobald, B. J. (2022). Towards a Perceptual Model for Estimating the Quality of Visual Speech. <i>arXiv preprint arXiv:2203.10117</i> . ◦ Yan, B.*, <b>Seto, S.*</b> , and Apostoloff, N. (2022). FORML: Learning to Reweight Data for Fairness. <i>arXiv preprint arXiv:2202.01719</i> . ◦ <b>Seto, S.</b> , Wells, M. T., and Zhang, W. (2021). Halo: Learning to prune neural networks with shrinkage. In <i>Proceedings of the 2021 SIAM International Conference on Data Mining (SDM)</i> (pp. 558-566). Society for Industrial and Applied Mathematics. ◦ Zhang, W., <b>Seto, S.</b> , and Jha, D. K. (2020, March). CAZSL: Zero-Shot Regression for Pushing Models by Generalizing Through Context. In <i>2020 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)</i> (pp. 7131-7138). IEEE.	<b>Sep 2020 - Present</b>
ML AND AI PROJECTS	<b>Predicting Student Final Grades</b> ◦ Used approximate inference algorithm for predicting the distribution of final grades ◦ Presentation to the Cornell Learning Analytics Group <b>Human Activity Classification</b> ◦ Designed algorithm based on dynamic time warping for automatic feature selection ◦ Published in 2015 IEEE Symposium Series on Computational Intelligence <b>Linguistic Differences in Reddit Users</b> ◦ Used language models and lexicon statistics to classify user involvement on reddit	<b>January 2016 - May 2016</b> <b>January 2015 - September 2015</b> <b>August 2015 - December 2015</b>
SOFTWARE	<b>Programming Languages:</b> Python, R, MATLAB <b>Deep Learning Frameworks:</b> PyTorch, Keras, Tensorflow <b>Technology:</b> Git, Hadoop, Spark, SQL	
SERVICE	<b>RECENT ACADEMIC REVIEWING:</b> ICML 2022, FAccT 2022 <b>OTHER:</b> Apple AI/ML Scholars Fellowship 2022	