

manipulation in TensorFlow, parallelized across multiple GPUs. Matched models to human subjects with various types of developmental dyslexia. Tested educational interventions on models to provide personalized interventions for the human subjects. Performed network analyses to understand how hyperparameters affect results. Dissertation research involves using convolutional neural networks for image recognition to extend this research beyond dyslexia among monolingual English readers.

- Designed and implemented behavioral experiments of visual word recognition. Trained a team of several RAs responsible for collecting human subject data. Cleaned, visualized, and analyzed data using mixed effects regression in R. Produced manuscript for publication and presented the results publicly.
- Founded and led the Data Science Working Group and the Deep Learning Research Group to provide supplemental training in these areas to graduate students. Successfully applied for grant funding to purchase computational resources, attend conferences, and invite visiting researchers to the University of Connecticut. Managed multiple projects including (1) scraping Twitter and performing sentiment analysis, (2) training recurrent neural networks to generate Japanese haiku, (3) designing a network to learn English pluralization rules, (4) training a convolutional neural network to count the number of strokes in Chinese characters, and (5) developing 3D convolutional neural networks to categorize neuro-imaging data for cancer detection. Developed curricula and taught workshops on statistics, data science, and deep learning.
- Advised psychology department faculty and graduate students in statistical methods.

Additional experience in international education and marketing available upon request.

Education

PhD in Language and Cognition	University of Connecticut	2014-PRES
Deep Learning Summer School	Université de Montréal	2017
Data Science Summer School	École Polytechnique	2017
Critical Language Scholars Program	Soochow University	2015
MA in Teaching English (TESOL)	Columbia University	2009-2011
BS in International Business and Marketing	University of Dayton	2002-2006