Weiqiu You

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Research Interests Natural language processing, natural language generation, machine translation, low-resource languages Education M.S. in Computer Science, University of Massachusetts, Amherst GPA: 3.95/4.00 Sep. 2018 - May 2020 Advisor: Prof. Mohit lyyer Thesis: Learning Representations and Drawing Inferences Using Both Texts and Drawings in Comics **B.S. in Computer Science & Mathematics, Gordon College** GPA: 3.87/4.00 Sep. 2014 - May 2018 Advisor: Prof. Jonathan Senning, Prof. Russell Bjork Thesis: Predict Media Interestingness (The only Honors Thesis in CS department in five years) Study Abroad: Aquincum Institute of Technology, Budapest, Hungary GPA: 4.00/4.00 Aug. - Dec. 2017 **Publication** Hard-Coded Gaussian Attention for Neural Machine Translation Under Review ACL 2020 Weiqiu You*, Simeng Sun*, Mohit lyyer * equal contribution **Research Experience** Research Assistant, University of Massachusetts, Amherst Advisor: Prof. Mohit lyyer Jan. 2019 - Present Transformer with Hard-Coded Attention O Modified multi-headed attention to nard-coded Gaussian attention Aug. - Dec. 2019 Reduced memory and inference time speed without much BLEU drop RNN Machine Translation Faster Decoder • Generate a fixed span of words at a time to speed up decoder Jan. - Jun. 2019 Tried to add syntax to improve performance. Proved that it will slow down the model Research Intern, NLP Center, Meituan-Dianping Inc., Beijing, China Advisor: Dr. Zhongyuan Wang Jun. - Aug. 2018 **Key phrase extraction** Literature review in short text summarization and key phrase extraction Used rule-based methods, statistics based methods, and deep learning models (CSDDM) in Python to successfully extract key phrases for customer QA data Selected Course Research Projects Scientific Paper Task, Problem and Contribution Identification and Tracking Sep. - Dec. 2019 Implemented candidates extraction by rules Fine-tuned SciBERT on sentences that contain datasets to identify candidates that are true datasets Chinese to English Machine Translation Specialized in Game of Go and Cooking Recipe (Low-Resource Setting) Sep. - Dec. 2018 LSTM machine translation with Data augmentation by concatenating specialized terms in the dictionary Improved BLEU metric for comparison in specialized fields **Professional Experience** Teaching Assistant, Math and Computer Science Department, Gordon College Jan. 2016 - May 2018 Led lab sessions for Data Structures and Algorithms Held Q&A sessions for Calculus and SPSS in Biostatistics Graded for Calculus II and Differential Equations Web Development Intern, Gordon College Developed a quizzer website (using Ruby on Rails) for professor of Biblical studies Jun. - Jul. 2016 Frontend and backend development for Gordon College's student life website (using C# & ASP.NET). Jun. - Aug. 2017 Technical Skills **Programming Language** Python, Java, C++, C#, JavaScript, Ruby, Prolog Framework PyTorch, ASP.NET, Ruby on Rails Language Skills Fluent: Chinese, English **Intermediate:** Japanese (N2) **Beginner:** Hungarian **Leadership Experiences**

Apr. 2016 - May 2018

Founder and President, Gordon College Go Club