HEE (PETER) HWANG

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EDUCATION

University of Massachusetts, Amherst — September 2019- Present
M.S. Computer Science — *Amherst, MA*

University of California, Los Angeles — June 2015
B.S. Computer Science — *Los Angeles, CA*

RESEARCH EXPERIENCE

Graduate Research Assistant — Sept 2019 - Present
University of Massachusetts, Amherst — *Amherst, MA*

- Built legal issue classifier and analyzed seasonality (Advisor: Dr.Brendan O'Connor)
- Implement neural models that predict pitch accent and boundary tone using ToBI transcription from Boston University News Radio Corpus (Advisor: Dr.Kristine Yu) **[Colab]**

Undergraduate Research Assistant — Apr 2014 - June 2014
University of California, Los Angeles — *Los Angeles, CA*

- Contributed research for the study of aspiration, and the gradient structure of English prefixed words **[Kie Zuraw and Sharon Pepperkamp, 2015]** by segmenting the closure before the voice onset time and doing statistical analysis (Advisor: Kie Zuraw)

WORK EXPERIENCE

Software Engineer — February 2017 - May 2019
Samsung Electronics — *South Korea*

- Implemented a phoneme to grapheme converter for a Korean speech recognition system
- Maintained the content and sync framework which synchronize data between devices and web servers
- Designed and implement layout traversal program using Google Talkback
- Create hold duration and ignore repeat on Android UI framework

CLASS PROJECTS

Natural Language Processing

- Text2Time: Built a neural model that predicts the decade of NYT news from the 1960s to 2010s using Naïve Bayes and BERT **[Github]**
- Built language models including n-gram, recurrent neural network, and attention mechanism

Reinforcement Learning

- Created an RL program that guarantees better policy using trajectory using PDIS and CMA-ES
- Implemented various kinds of optimization and reinforcement algorithm including Q-Learning

TECHNICAL STRENGTHS

Over 5000 Lines	C/C++, Java
Over 2000 Lines	Python
Familiar	Linux, Android, Pytorch, and LaTeX