JUNYI DU

M.S. Student in Computer Science

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EXPERIENCE

Research Assistant
INK Lab @ University of Southern California

📅 Mar. 2018 – Present   ⚲ Los Angeles, CA

- Supervised by Prof. Xiang Ren
- Research topics in Natural Language Processing, e.g. Neural Machine Translation and Relation Extraction
- Interested in tasks combining NLP and Computer Vision and approaches incorporating pre-trained language models and knowledge bases
- Responsible for daily maintenance of GPU cluster

Survey: Visual Relation Related Tasks

- On working
- Exploring scene graph generation, image caption and visual QA
- Built visualization tools for VRE datasets

Project: Automatic Cognitive Task Analysis

- Help specialist in Cognitive Psychology to build a system to interpret CTA interview transcripts
- Designed pipeline for parsing transcripts, then propose models addressing low-resource and context dependency based on pre-trained BERT model
- Received funding from NIH

Research Intern
SenseTime Ltd.

📅 Sep. 2017 – Dec. 2017   ⚲ Shenzhen, China

- Worked in Big-Video Research Group, received supervision from Ping Luo @ CUHK MMLab

Project: Image Classification with Noisy Data

- Explored WebVision, a large-scale, weakly-supervised, heavy-noise dataset with semi-supervised learning techniques
- Analyzed, processed data and trained deep models on large-scale GPU clusters

Research Assistant
HCP Lab @ Sun Yat-sen University

📅 Jun. 2017 – Sep. 2017   ⚲ Guangzhou, China

- Supervised by Prof. Liang Lin

Project: Traffic Flow Prediction

- Built deep model based on Residual Convolutional LSTM to estimate traffic flow

PUBLICATION

Eliciting Knowledge from Experts: Automatic Transcript Parsing for Cognitive Task Analysis

- **Junyi Du**, He Jiang, Jiaming Shen and Xiang Ren
- Accepted by The 57th Annual Meeting of the Association for Computational Linguistics (**ACL 2019**), under camera-ready

RESEARCH AREA

Natural Language Processing

- Neural Machine Translation and Language Model
- Relation Extraction and Knowledge Graph

Computer Vision

- Weakly-supervised Image Classification
- Image Captioning

EDUCATION

M.S. in Computer Science
University of Southern California

📅 2018 – Present   ⚲ Los Angeles, CA

Current GPA: 4.0/4.0
Expected Graduation: Dec. 2019

B.S. in Computer Science
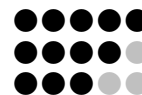**South China Agricultural University**

📅 2012 – 2016   ⚲ Guangzhou, China

Major GPA: 93.0/100

PROGRAMMING SKILLS

Python, Pytorch   ●●●●●
C++, CUDA   ●●●●○
HTML5, Vue.js, React   ●●●○○

AWARD

- 10th Place (Silver Medal), 2014 ACM-ICPC Guangdong Programming Contest