

Shuoyang Ding

RESEARCH ASSISTANT · PHD STUDENT IN NATURAL LANGUAGE PROCESSING

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Education

Johns Hopkins University

PH.D. IN COMPUTER SCIENCE

- Advisor: Philipp Koehn

Baltimore, United States

Sep. 2014 - PRESENT

Beijing University of Posts & Telecommunications

B.E. IN COMPUTER SCIENCE

- GPA: 89.41/100 (rank 1st among 298)
- Thesis: *Prototype-driven, treebank-oriented grammar engineering*

Beijing, China

Sep. 2010 - Jun. 2014

Publications

Multi-Modal Data Augmentation for End-to-end ASR (Best Student Paper Award)

Interspeech 2018

Adithya Renduchintala, [Shuoyang Ding](#), Matthew Wiesner, Shinji Watanabe

How Do Source-side Monolingual Word Embeddings Impact Neural Machine Translation?

Preprint

[Shuoyang Ding](#), Kevin Duh

The JHU Machine Translation Systems for WMT 2017

WMT 2017

[Shuoyang Ding](#), Huda Khayrallah, Philipp Koehn, Matt Post, Gaurav Kumar and Kevin Duh

Backstitch: Counteracting Finite-sample Bias via Negative Steps

Preprint

Yiming Wang, Hossein Hadian, [Shuoyang Ding](#), Ke Li, Hainan Xu, Xiaohui Zhang, Daniel Povey, Sanjeev Khudanpur

The JHU Machine Translation Systems for WMT 2016

WMT 2016

[Shuoyang Ding](#), Kevin Duh, Huda Khayrallah, Philipp Koehn, and Matt Post

Grammatical Relations in Chinese:GB-Ground Extraction and Data-Driven Parsing

ACL 2014

Weiwei Sun, Yantao Du, Xin Kou, [Shuoyang Ding](#), Xiaojun Wan

Experience

Center for Speech and Language Processing, Johns Hopkins University

Baltimore, United States

RESEARCH ASSISTANT

Aug. 2014 - PRESENT

- Advised by Philipp Koehn and Kevin Duh
- Participated in various evaluation campaigns (WMT17, WMT16, OpenMT15)
- Currently working on integrating pre-trained word embedding and syntax into neural machine translation models

Salesforce Research

Palo Alto, United States

INTERN, DEEP LEARNING RESEARCH

May. 2018 - Aug. 2018

- Mentored by James Bradbury
- Studied models that jointly learn to translate and to induce universal grammars for the source language

Amazon

Pittsburgh, United States

APPLIED SCIENTIST INTERN

May. 2016 - Aug. 2016

- Mentored by Alon Lavie, Michael Denkowski and Ann Clifton
- Designed and implemented an automatic hyper-parameter optimization paradigm for machine translation systems

Institute for Language, Cognition and Computation, University of Edinburgh

Edinburgh, Scotland

VISITING RESEARCHER

Jun. 2015 - Aug. 2015

- Worked with Philip Williams, Rico Sennrich and Matthias Huck
- Incorporated operation sequence model into the latest Moses syntax-based decoder as a feature function

Language Computing and Web Mining Group, Peking University

Beijing, China

RESEARCH ASSISTANT

Jul. 2013 - Jun. 2014

- Advised by Weiwei Sun
- Undergraduate research on Chinese semantic parsing and word segmentation

Honors & Awards

- 2018 **Best Student Paper Award**, International Speech Communication Association (3 selected among 700+ papers)
- 2013 **Finalist**, Interdisciplinary Contest in Modeling (7 selected among 957 participants)
- 2013 **First Class Scholarship**, Beijing University of Posts & Telecommunications
- 2012 **First Class Scholarship**, Beijing University of Posts & Telecommunications
- 2011 **National Scholarship**, Ministry of Education, China (top 1%-ranked students)

Services

- 2018 **Program Committee / Reviewer**, ACL, CoNLL, EMNLP
- 2017 **Teaching Assistant**, CS 468 (Machine Translation), Johns Hopkins University
- 2017 **PhD Recruitment Committee**, Department of Computer Science, Johns Hopkins University
- 2015 **Program Committee**, Mid-Atlantic Student Colloquium on Speech, Language and Learning

Skills

- Programming Languages** Python, C++, Bash, Java, Haskell
- Tookits and Libraries** PyTorch, Theano, Fairseq, OpenNMT, Nematus, Mosesdecoder