

## Di Lu

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### CONTACT INFORMATION

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Rensselaer Polytechnic Institute  
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### RESEARCH INTERESTS

Natural Language Processing, Computer Vision, Machine Learning

### EDUCATION

**Rensselaer Polytechnic Institute**, Troy, New York USA

Ph.D. Candidate, Computer System Engineering, August 2014 (expected graduation date: 2018)

- Advisor: Heng Ji, Alhussein A. Abouzeid

**Boston University**, Boston, Massachusetts USA

M.S., Electrical Engineering, May, 2012

- Advisor: Ronald Knepper

**University of Science and Technology of China**, Hefei, Anhui PRC

B.S., Physics, July, 2008

### RESEARCH EXPERIENCE

#### **Research Assistant**

August 2015 to present

Department of Computer Science,  
Rensselaer Polytechnic Institute  
Supervisor: Heng Ji, Ph.D

Research Focus Areas: Context-aware Description Generation for Images in Social Media, Cross-media Cross-lingual Knowledge Transfer, Information Extraction, Multimedia Event Summarization in Social Media

#### **Research Assistant**

January 2015 to August 2015

Department of Electrical Computer and System Engineering,  
Rensselaer Polytechnic Institute  
Supervisors: Kim Boyer, Ph.D

Research Focus Areas: Room Occupancy Detection using Color Sensor

### TEACHING EXPERIENCE

Teaching Assistant, ENGR 2500, Electronic Instrumentation, Fall 2014, Rensselaer Polytechnic Institute

Teaching Assistant, ECSE 2050, Introduction to Electronics, Fall 2014, Rensselaer Polytechnic Institute

### HONORS AND AWARDS

IBM CISL Fellowship, 2016

### PREPRINTED PUBLICATIONS

**Di Lu**, Spencer Whitehead, Lifu Huang, Heng Ji and Shih-Fu Chang. 2017. Antity-aware Image Description Generation for Social Media.

Boliang Zhang, **Di Lu**, Xiaoman Pan, Ying Lin, Halidanmu Abudukelimu, Heng Ji and Kevin Knight. 2017. Embracing Non-Traditional Linguistic Resources for Low-resource Language Name Tagging. (*Submitted to IJCNLP2017*)

## PUBLICATIONS

**Di Lu**, Xiaoman Pan, Nima Pourdamghani, Shih-Fu Chang, Heng Ji and Kevin Knight. 2016. A Multi-media Approach to Cross-lingual Entity Knowledge Transfer. *Proc. the 54th Annual Meeting of the Association for Computational Linguistics (ACL2016) (oral)*

**Di Lu**, Clare R. Voss, Fangbo Tao, Xiang Ren, Rachel Guan, Rostyslav Korolov, Tongtao Zhang, Dongang Wang, Hongzhi Li, Taylor Cassidy, Heng Ji, Shih-fu Chang, Jiawei Han, William Wallace, James Hendler, Mei Si and Lance Kaplan. 2016. Cross-media Event Extraction and Recommendation. *Proc. the 2016 Conference of the North American Chapter of the Association for Computational Linguistics Human Language Technologies (NAACL-HLT 2016) (Demo)*

Ulf Hermjakob; Qiang Li, Jonathan May, Daniel Marcu, Sebastian Mielke, Nima Pourdamghani, Michael Pust, Xing Shi, Kevin Knight, Kenton Murray, Tomer Levinboim, David Chiang, Boliang Zhang, Xiaoman Pan, **Di Lu**, Ying Lin, Heng Ji. 2017. Incident-Driven Machine Translation and Name Tagging for Low-resource Languages. *Proc. Machine Translation*

Pavlos Papadopoulos, Ruchir Travadi, Colin Vaz, Nikolaos Malandrakis, Ulf Hermjakob, Nima Pourdamghani, Michael Pust, Boliang Zhang, Xiaoman Pan, **Di Lu**, Ying Lin, Ondrej Glembek, Murali Karthick B, Martin Karafiat, Lukas Burget, Mark Hasegawa-Johnson, Heng Ji, Jonathan May, Kevin Knight and Shrikanth Narayanan. 2017. Team ELISA System for DARPA LORELEI Speech Evaluation 2016. *Proc. Interspeech2017*

Dian Yu, Xiaoman Pan, Boliang Zhang, Lifu Huang, **Di Lu**, Spencer Whitehead and Heng Ji. 2016. RPLBLENDER TAC-KBP2016 System Description. *Proc. Text Analysis Conference (TAC2016)*

Ulf Hermjakob, Qiang Li, Jonathan May, Sebastian Mielke, Nima Pourdamghani, Michael Pust, Xing Shi, Kevin Knight, Daniel Marcu, Nikolaos Malandrakis, Anil Ramakrishna, Victor Martinez, Elisabeth Staruk, Tanner Sorensen, Dogan Can, Shrikanth Narayanan, Tomer Levinboim, Kenton Murray, David Chiang, Boliang Zhang, Xiaoman Pan, **Di Lu**, Lifu Huang, Xiaocheng Feng and Heng Ji. 2016. ELISA System Description for LoReHLT 2016. *Proc. NIST LoReHLT 2016 Workshop*

Rostyslav Korolov, **Di Lu**, Jingjing Wang, Guangyu Zhou, Claire Bonial, Clare Voss, Lance Kaplan, William Wallace, Jiawei Han and Heng Ji. 2016. On Predicting Social Unrest Using Social Media. *Proc. the IEEE/ACM International Conference on Advances in Social Networks and Mining (ASONAM2016)*

Yu Hong, **Di Lu**, Dian Yu, Xiaoman Pan, Xiaobin Wang, Yadong Chen, Lifu Huang and Heng Ji. 2015. RPLBLENDER TAC-KBP2015 System Description. *Proc. Text Analysis Conference (TAC2015)*

## PRESENTATIONS

**Di Lu**. 2017. ARL NS CTA Annual Technical meeting. University of Delaware, Newark, Delaware USA, May, 2017.

**Di Lu**. 2016. A Multi-media Approach to Cross-lingual Entity Knowledge Transfer. The 54th Annual Meeting of the Association for Computational Linguistics, Berlin, Germany, August, 2016.

Yu Hong, **Di Lu**. 2015. Event Nugget and Event Coreference. 8th International Meeting on TAC 2015 Workshop, Gaithersburg, Maryland USA, November, 2015.

## CONFERENCE POSTERS

**Di Lu**. 2016. Cross-media Event Extraction and Recommendation. The 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, San Diego, California USA, June, 2016.

**Di Lu**. 2015. RPLBLENDER TAC-KBP2015 System Description. 8th International Meeting on

TAC 2015 Workshop, Gaithersburg, Maryland USA, November, 2015.

**Di Lu.** 2015. Smart Lighting based on RGB color sensor. NSF site visit, Troy, New York USA, June, 2015.

**Di Lu.** 2015. Smart Lighting based on RGB color sensor. Industry site visit, Troy, New York USA, June, 2015.

#### CONTESTS

1st in Event Nugget Detection and Coreference (Spanish)

9th International Meeting on Text Analysis Conference (TAC) 2016 Workshop, Gaithersburg, Maryland USA, November, 2016.

1st in Event Nugget Detection and Coreference (English)

8th International Meeting on Text Analysis Conference (TAC) 2015 Workshop, Gaithersburg, Maryland USA, November, 2015.

#### COMPUTER SKILLS

- Languages: Python, Java, JavaScript, Matlab, C/C++, C#, Unix shell scripts.
- Applications: Tensorflow, Caffe, NLTK, Stanford NLP, OpenCV, Rpi
- Operating Systems: Unix/Linux, Windows, OSx.