

Juan (Fei) Xu

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Research Interests

- Natural Language Processing
 - Text summarization/generation
 - Adversarial examples generation
 - Adversarial training
 - Computational semantics

Education

- **New York University** New York, United States
 - M.S. Information System 09/2019 – present
- **Fudan University** Shanghai, China
 - M.S. Computer Science 09/2011 – 07/2014
 - Research area: Natural Language Processing, Information Extraction
 - Advisor: Prof. Xuan-Jing Huang & Prof. Qi Zhang
- **Anhui University of Technology** Maanshan, China
 - B.S. Software Engineering 09/2006 – 07/2010

Research Experiences

- **Adversarial examples generation for evaluating NLU tasks**
 - research project of Prof. Sam Bowman's NLU class 03/2019 - present
 - Conducted a pilot study on the robust of Pre-train model for NLU tasks.
- **Web of Law**
 - working with Prof. Adam Meyers at NYU 10/2019 - 02/2020
 - Conducted a pilot study on the problem of document classification of legal court opinions.
- **Personalized Hashtag Recommendation for Microblogs**
 - SMP-2015 Oral Presentation 05/2013 - 02/2014
 - Conducted a pilot study on the problem of personalized hashtags for microblogs
- **Understanding the Semantic Intent of Natural Language Query**
 - IJCNLP-13 Oral Presentation 10/2012 – 05/2013
 - Investigated the semantic intent of natural language (NL) queries in map search scenario;

Work Experiences

- **PayPal, Shanghai, China**
 - Senior AI Engineer 04/2019 – 08/2019
 - Lead & involve in the design and development of algorithms/models to support PayPal business units for compliance and risk management, fraud detection, etc.
- **Alibaba, Hangzhou, China**
 - Algorithm Expert 02/2019 – 04/2019
 - Lead & involve in the design and development of algorithms/models to support Alibaba business units for compliance and risk management, fraud detection, etc.
- **Meituan-Dianping, Shanghai, China**
 - Senior Algorithm Engineer 07/2014 – 02/2019
 - Responsible for & involve in the design and development of algorithms/models to support DianPing's search business unit, include query understanding & document understanding.
- **Fudan University, Shanghai, China**
 - Research Assistant: Prof. Qi Zhang 09/2011 – 06/2014

Publications & Patents

- **Juan Xu**, Qi Zhang and Xuanjing Huang.
Personalized Hashtag Suggestion for Microblogs.
4th National Conference of Social Media Processing, (SMP) 2015
- **Juan Xu**, Qi Zhang and Xuanjing Huang.
Understanding the Semantic Intent of Domain – Specific Natural Language Query.
International Joint Conference on Natural Language Processing, (IJCNLP) 2013
- **Juan Xu**, Tian Yi and Wei Su and Wei Shi and Ao Chuang.
A method and system of entity relevance verification code generation.
First class patent of Alibaba group company, to appear. 2019
- **Juan Xu***, Rao Fu* and Zhian Yu and Yanhua Wang and Gong Zhang.
A method and system of real-time generation of articles.
First class patent of meituan-dianping company, to appear. 2018
- Rao Fu, **Juan Xu** and Zhian Yu and Yanhua Wang and Gong Zhang
A general method and system for identifying the semantic intent of search keyword.
Second class patent of meituan-dianping company, to appear. 2017

Academic Presentations

- **International Joint Conference on Natural Language Processing (IJCNLP'13)** Nagoya, Japan
Oral presentation 10/2013
- **The Eighth ACM International WSDM Conference (WSDM'15)** Shanghai, China
Winter School 02/2015
- **National Conference of Social Media Processing (SMP'15)** Guangzhou, China
Oral presentation 10/2015

Honors & Grants

- 12th Meituan-Dianping Hackthon First class Winner, Shanghai, China. 12/2017
- Meituan-Dianping Technology Innovation Award Winner, Shanghai, China. 12/2015
- Student Scholarship, Fudan Univ. 06/2012–06/2013
- Student Scholarship, AHUT. 06/2007–06/2010

Teaching Experience

- **Fudan University**
 - Teaching Assistant, Computational thinking 2012 Fall
 - Teaching Assistant, Chinese information processing 2013 Spring

Skills

- **NLP**: CWS, Language Model, NER, Text Generation, Summarization
- **Deep Learning**: CNN, RNN, Attention, Transformer, Bert, Tensorflow, PyTorch
- **Java**: Spring, Maven, Design Pattern
- **Python**: Numpy, Scipy, Pandas, Sklearn, Beautiful Soup
- **Language**: Chinese (Native), English (Fluent)

Social Activity

- **Clara Non-profit DIY Club**[\[link\]](#)
 - Member
 - Environmental Protection
 - Support Disadvantaged children