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. Computer Science — 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, Shanghia, 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, Shanghia, 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