Xiaoyu (Ariel) Yang

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RESEARCH INTERESTS

Natural Language Processing, Natural Language Inference, Commonsense Reasoning,
Reasoning over Textual and Structured Data, Machine Learning, Deep Learning.

EDUCATION

Queen's University, Kingston, ON, Canada   Sept. 2018–Current
Ph.D Candidate, Department of Electrical and Computer Engineering

Nankai University, Tianjin, China   Sept. 2012–Jun. 2016
Bachelor, Department of Computer and Control Engineering, GPA: 87/100, Ranking: 4/35

RESEARCH ACHIEVEMENTS

Program Enhanced Fact Verification with Verbalization and Graph Attention Network   **EMNLP-2020**
(**Xiaoyu Yang**, Feng Nie, Yufei Feng, Quan Liu, Zhigang Chen, Xiaodan Zhu)
- State-of-the-art performance on table fact verification by combining neural network and symbolic programs.
- Designed a graph network to combine the Bert model and verbalized operations for table reasoning.

SemEval-2020 Task 5: Counterfactual Recognition – Task Organizer   **SemEval-2020**
(**Xiaoyu Yang**, Stephen Obadinma, Huasha Zhao, Qiong Zhang, Stan Matwin, Xiaodan Zhu)
- Scraped around 120k relevant sentences from web, obtained 20k annotated samples using Mechanical Turk.
- Implemented the baseline model, organized the system evaluation and the workshop paper review process.

Enhancing Unsupervised Pretraining with External Knowledge for Natural Language Inference
(**Xiaoyu Yang**, Xiaodan Zhu, Huasha Zhao, Qiong Zhang, Yufei Feng)   **CanadianAI-2019**
- Integrate WordNet/ConceptNet knowledge into pre-trained neural networks for natural language inference.

The 9th Dialog System Technology Challenge – Track 1   **DSTC-9**
Conversation modeling with unstructured knowledge access, 2nd place in objective evaluation.
- Designed a Retrieve & Rank model for knowledge selection that outperforms baseline by 35%.

EXPERIENCE

Machine Learning Engineer Intern   Jun. 2018 – Aug. 2018
Alibaba Damo Academy, Alibaba Group, Hangzhou, China
- Developed a neural client information extraction model for Ant Financial insurance policy documents.

Research Assistant   Sept. 2016 – May 2018
Institute of Information Engineering, Chinese Academy of Science, Beijing, China
- Implemented rules with Esper to detect special IP access in a real-time web traffic monitoring system.
- Dumped web event logs to the Elasticsearch database and used Kibana for visualization and analysis.

SCHOLARSHIPS AND AWARDS

- Vector Institute Scholarship   2019–2020
- Honorable Mention in 2015 Mathematical Contest in Modeling (MCM/ICM)   2015
- Second-grade scholarship (3 consecutive academic years)   2012–2015