YUQIAO CHEN

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SKILL

Area of Interest:	Graphical Models, Reinforcement Learning, Relational Models
Language & Tools:	Python, Java, MATLAB, C/C++, C#, Java Script, PyTorch, OpenCV, Spring MVC, Unity
Industry Knowledge:	Machine Learning, Neural Networks, Artificial Intelligence, Web Development

RESEARCH PROJECTS

• Lifted Hybrid Message Passing – Proposed a Generic approximate lifted inference algorithm which can be applied to Markov Random Fields or Relational Models with both discrete and continuous domain. We proposed a particle message approximation and a Coarse-to-Fine lifting approaches. (IJCAI 2019)

• Lifted Hybrid Variational Inference - Exploit symmetries from a graph by post-evidence-insertion. The approach is based on Bethe Free Energy approximation with several assumption on the belief distribution. (StaRAI 2020)

• Approximate Convex Linear Piecewise Fitting (CLP) – Solve CLP problem approximately by using Convex Envelope and apply it to Reinforcement Learning task with continuous action space. (Currently working)

EXPERIENCE

Verisk AI Innovation Lab, Jersey City, NJ
AI/ML Research Intern June.2019-Aug.2019
• Developing new algorithm for modeling the distribution of tables or forms in documents. It combines the power of Graphical Models (the ability to encode human knowledge / inductive bias) and the power of Neural Networks (expressiveness of learning arbitrary distribution).

Copart, Dallas, TX
Software Engineer Intern May.2017-Aug.2017
• Designed and developed texting and voice messaging web services with Spring MVC framework from scratch.
• Maintained code for several important web services, including email and user login / logout services.

University of Texas at Dallas, Richardson, TX
Research Assistant May.2018-Present
• Doing research relevant to Graphical Models and Reinforcement Learning

Teaching Assistant Aug.2017-May.2018
• Graded assignments and provided additional support to students on classes: Web Programming Languages, Digital Forensics, Advanced Algorithm Design and Analysis.

EDUCATION

University of Texas at Dallas, Richardson, TX
Ph.D. in Computer Science (GPA: 4.0) Aug.2017-Present
M.S. in Computer Science (GPA: 4.0) Aug.2016-Aug.2017

Southwest University of Science and Technology, Mianyang, China
B.E. in Telecommunications Engineering (GPA: 3.75) Sept.2011-July.2015