HEBI LI

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EDUCATION

lowa State University *PhD Student in Department of Computer Science*

University of Science and Technology of China *B.E. in Electrical Engineering*

RESEARCH AREA

- Artificial Intelligence, Causality
- Natural Language Processing
- Programming Languages & Analysis

Aug. 2014 - Aug 2019 (Expected)

Aug. 2010 - Jun. 2014

Spring 2018 - Present

PROGRAMMING SKILLS

- Lisp & Scheme
- C/C++
- Python

RESEARCH PROJECTS

AI: Causal Discovery From High Dimensional Data (Python, Tensorflow)

Description: Causal relationships are fundamental for predictions of the consequences of actions. However, most causality research are done in low-dimensional data. We hence are interested in causal discovery in high dimensional data such as images and text. In particular, we are interested in mapping low-level raw pixels (micro variables) into high-level features (macro variables) that have explicit causal relations. The model is built atop Variational Causal Encoder (VAE).

PL: Demand-driven Dynamic Program Analysis (C++, LLVM/Clang, Racket) Summer 2015 - Spring 2018

• Description: We develop a framework that debugs programs on-demand, preventing running time overhead by running just enough code. It analyzes a buggy program and generates a much smaller partial program that retains the same bug.