

Xinyi Chen

Shanghai Jiao Tong University
Computer Science

Email: cxinyic@sjtu.edu.cn

Education

Shanghai Jiao Tong University, September 2015-June 2019(expected)

Major: Computer Science

Interest: Database, computer network , distributed system

GPA:3.78/4(overall)

Publications

Y.Lin, **X.Chen**, X.Gao, B.Yao, G.Chen, " **R²-Tree:An Efficient Indexing Scheme for Server-Centric Data Center Network**", accepted by *International Conference on Database and Expert Systems Applications (DEXA)*,2018

L.Hui, S.Wang, **X.Chen**,Y.Zhang, S.Davidson, B.Loo, W.Zhou, C.Chen "**P3log: Provenance for Probabilistic Programming**", submitted to *The Conference on Innovative Data Systems Research (CIDR)*,2019

Projects

Research in **Database**

July 2018-present

Supervisors:**Professor Boon Thau Loo**

Research Center:**Distributed System Laboratory**, The university of Pennsylvania

Data Provenance in Probabilistic Database

Project Member

- . Propose data provenance in probabilistic database
- . Design an unified language called P3log(based on Datalog)
- . Use this to help debug in network or machine learning
- . Submit a paper to CIDR 2019.

Research in **Data Management**

March 2017-November 2017

Supervisors:**Ph.D. Xiaofeng Gao**

Research Center:**Advanced Network Laboratory**, SJTU

An Efficient Indexing Scheme for Server-Centric Data Center Network

project Member

- . Propose a general definition of server-centric data center topology
- . Give an two-layer indexing scheme which can be built on all kinds of server-centric data centers and can handle multidimensional data.

- . Finish the implementation of the indexing scheme on 4 kinds of server-centric data centers.

Research in **software-defined network**

November 2017-June 2018

Supervisors:**Ph.D.Xiaofeng Gao**

Research Center:**Advanced Network Laboratory, SJTU**

Reinforcement Learning in DCN Routing

Project Leader

- . Introduce Reinforcement learning into routing problem.
- . Use the controller in SDN to do learning task in a concentrated way.