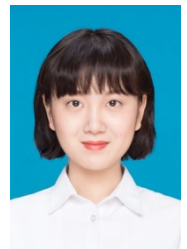


# Xuefei (Fei) LI

University of Minnesota, Twin Cities, Minneapolis, 55455

[li001008@umn.edu](mailto:li001008@umn.edu) (612)2321271

<https://snowflylxf.github.io/>



## EDUCATION

**College of Science and Engineering, University of Minnesota Twin cities**

Sep 2018 – now

M.S. in Computer Science, Plan B project-based, GPA: 4.0/4.0

**School of Aeronautics and Astronautics, Fudan University**

Sep 2014 - Jun 2018

B.S. in Theoretical and Applied Mechanics, GPA Ranking: 6/57

**School of Computer Science, Fudan University**

Sep 2016 - Jun 2018

Minor in Data Science, GPA: 3.70/4.0

**Major courses:** Computer Graphics (A), Visualization (A), Artificial Intelligence (A), Computer Vision (A), Machine Learning (A), Intro to Data Mining (A), Introduction to Database (A), Probability Theory & Mathematical Statistics (A), Digital Signal Processing(A), Mathematical Modeling (A), Partial Differential Equation (A), Advanced Algebra and Analytic Geometry (A-)

## RESEARCH INTEREST

Visualization, Vision, Artificial Intelligence, Machine Learning, Computer Graphics, Human-Computer Interaction

## RESEARCH EXPERIENCES

**Mimic Robot** | Plan B project, Advisor: **Prof. Stephen J. Guy**, Applied Motion Lab at UMN

Sep 2019 - present

- Achieved pose estimation in 3D from a single video clip using 2D keypoints trajectories detected in each frame
- Data-driven character animation with Reinforcement Learning

**Egocentric Cognitive Mapping**, Advisor: **Prof. Hyun Soo Park**, UMN Vision Lab

Mar 2019 - Dec 2019

- Built a cognitive map from First-Person videos in grocery stores using 3D reconstruction
- Designed a method that transfers from multi-view images to continuous rendering model

**Visualization Project**, Advisor: **Prof. Daniel Keefe**, Interactive Visualization Lab at UMN

Feb 2019 - May 2019

- Presented rendering of Food web structure with various models and a game using simulation to illustrate Energy Pyramid with Bell Museum at St Paul, Minnesota
- Designed a tool that integrates various forms of visualization into one, embedded the visualization information in the video

**Unsupervised Featured Learning and Star-Galaxy Classification** | Summer Intern

Jul 2017 - Sep 2017

Advisor: **Prof. Robert J. Brunner**, Laboratory for Computation, Data, Machine Learning, University of Illinois at Urbana-Champaign

- Implemented ConvNets for feature learning on Sloan Digital Sky Survey dataset images
- Designed a generative model with Variational Autoencoder, Manifold learning, Clustering and Search to segment the objects

## ACTIVITIES AND AWARDS

**Shanghai Outstanding Graduate Awards**

Jun 2018

**Scholarship for Outstanding Students (FDU), Second Prize**

2017/2016/2015

**Student Union**, School of Aeronautics and Astronautics, FDU | Outstanding Director Award

2015 - 2016

**Volunteer team**, Yinhang Residential District Community, Shanghai | Project Leader

Jul 2015

**Youth League Committee**, Department of the Youth Volunteer Activities, FDU | Outstanding Director Award

2014 - 2015

## PROFESSIONAL EXPERIENCES

**HP Inc.** Internship as Computer Vision Engineer, Shanghai, China

Apr 2018 - Jul 2018

- Use deep learning to compress images, and also decompress to preserve good quality.

**iQiyi.com Inc.** Internship as Algorithms Engineer, Shanghai, China

Jan 2018 - Feb 2018

- Designed the learning Question Answering over QA Corpora and Knowledge Bases developed
- Developed Nature Language Understanding model for intent detection with tensorflow to build a chatbot

## SKILLS

➤ **Computer/Technical skills:**

C/C++, OpenGL, Python, MATLAB, Processing, JavaScript, Unity, AutoCAD, MySQL, Photoshop

➤ **Interest:**

Piano (Level-9 certificated with Chinese Musicians Association), Hiking, drawing