

# Fanbo Xiang

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## EDUCATION

### University of Illinois at Urbana Champaign, Champaign, IL

- Bachelor's degree in Computer Science  
Dual degree in Mathematics
  - Cumulative GPA: 4.0/4.0
- Personal Website: <https://fbxiang.github.io>
- Computer Science Coursework Completed

CS440 Artificial Intelligence	A+	CS412 Intro to Data Mining	A+
CS418 Interactive Computer Graphics	A+	CS421 Programming Languages	A+
CS241 System Programming	A+	CS374 Models of Computation & Algorithms	A+
CS450 Numerical Analysis	A+	CS446 Machine Learning	A
CS498 AI for Computer Games	A+	CS465 UI Design	A
- Mathematics Honor Courses

MATH416 Abstract Linear Algebra	A+	MATH427 Abstract Algebra	A+
MATH424 Real Analysis	A+		

Expected Graduation:  
May 2018

## EXPERIENCE

### Search-Plus Chrome Extension, Champaign, IL

- Individual project  
Jul 2016 – Dec 2016
  - <https://github.com/fbxiang/SearchPlus>
  - Built a customizable multipurpose search bar for chrome.
  - Enabled in-browser javascript execution and custom command system.

### MUS-ROVER, Champaign, IL

- Team project, Web developer  
Dec 2016–Present
  - Participated in MUS-ROVER project as the backend(nodejs) developer.
  - Focus on music data manipulation to create a web app for representation of music theories learned by algorithms.

### UniInventory Unity 3d project, Champaign, IL

- Individual project, final project for CS 242 Programming Studio  
Aug 2016 – Dec 2016
  - <https://github.com/fbxiang/InventoryDemo>
  - Implemented a programming friendly RPG style inventory system.
  - Designed the programming structure to support easy implementation of advanced item behaviors.

### CUMTD-Assistant Android App, Champaign, IL

- Team coordinator, final project for CS 465 UI design  
Aug 2016 – Dec 2016
  - <https://github.com/fbxiang/CUMTD-Assistant>
  - Work as the team coordinator in a group of 5 and discuss with the group about design decisions.
  - Finished the CUMTD-Assistant app capable of nearby bus stops look-up, real time bus schedule listing, bus stop search, real time bus position display, and trip planning.
  - Work as the main programming designer of the app. Design the structure of the pages, solve technical difficulties, and keep the group working smoothly.

### Sound Prediction from Video Research Project, Champaign, IL

- Research Assistant, Instructed by professor Paris Smaragdīs  
Feb 2016 –Jul 2016
  - Built a simple 2d physics engine from scratch using C++ for simulation and video generation.
  - Learned and implemented a simple sound synthesizer from scratch to generate sound.
  - Combined video and audio generation to prepare training data for collision model learning.

## ACADEMIC ACTIVITIES

### Association of Computing Machinery, SigMusic, Champaign, IL

- Active Member  
Jan 2015 – Present
  - Contributed to interactive graphics and sound exhibits; received positive feedbacks at Engineering Open House.
  - Applied knowledge in music theories and algorithms to perform music generation.
  - Designed interfaces to do communication and unification between programs written by different members.

## SKILLS

Programming: **Python, Java, Javascript, C++, C#, Ruby, C, Haskell, MATLAB, LaTeX**  
Development: Git, Subversion, Emacs, Eclipse, Visual Studio  
Operating Systems: Familiar with Linux (Ubuntu), Basic knowledge with Windows  
Computer Game making: familiar with scripting systems of Unity3d and Unreal4.