

Xiaopu Peng

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🌐 <https://xiaopupeng.github.io>

EDUCATION

Auburn University

Phd Student in Computer Science, GPA: 3.8/4.0

Jan 2016 - Present (May 2020 Expected)

SUNY at Stony Brook

Master of Art in Economics GPA: 3.2/4.0

Sept 2011 - Jun 2013

Hubei Academy of Social Sciences

Master in Regional Economics GPA: 3.7/4.0

Sept 2008 - Jul 2011

Jiangnan University

Bachelor of Science in Applied Mathematics, GPA: 3.3/4.0

Sept 2004 - Jul 2008

EXPERIENCE

Auburn University, CSSE Dept.

Auburn, AL

GTA as Instructor of COMP1000-Personal Computer Applications

Fall 2017

- Practiced all aspect of teaching for 3 class sections with help from course coordinator.
- Received good evaluates from the students at end of the semester.

Auburn University, CSSE Dept.

Auburn, AL

GTA as Instructor of COMP2710- Software Construction

Summer 2016

- Provided the students with clear and careful instruction of C++ following the previous design of the course.
- Improved both in and off class communication skills with students.

TIARN Group, Office of President of the Board

Wuhan, China

Research Assistant to the President of Board

Apr 2014 - Oct 2015

- Worked as a key member of the early-stage preparation group of the subsidiary in Johor Bahru, Malaysia.
- Drafted research reports and provided suitable decision-making supports to the President of the Board.

Hubei Provincial Development and Reform Commission, Planning Dept.

Wuhan, China

Research Assistant Intern for The 12th Five-Year Plan of Hubei Province

Jun 2010 - Oct 2010

- Implemented provincial surveys, then wrote parts of research projects on economic development strategies.

PROJECTS

Working Projects

Jan 2018 – Present

- Deep Learning Course Project: Sequence to Sequence Models for Generating Video Captions.
- ios App which connect all information platforms for Chinese Student in Auburn.

Equifax Auburn Code-A-Thon Competition, Top 6 Teams on Finalist (50 teams total)

Feb 2018

- Introduced to the team with Shiny and ggplot2 on R, Implemented the mechanism of pop-up panel on map, handled slides and presentation step
- Weather Map: <https://weathermap.shinyapps.io/weathermap/>
- Tools: Shiny and ggplot2 on R, Dark Sky API

Big Data Mining Technologies Course Group Project

Aug 2017 – Dec 2017

- Reimplemented models from *Fast Random Walk with Restart and Its Applications* with dataset of COIL20, COIL100 and extracted DBLP
- Drafted project proposal and report, collected and preprocessed data from COIL20 and COIL100, debugged source code.
- Tools: Matlab, Latex, MatlabFuncs(github), FRWR src

Operating Systems Course Project*Aug 2016 – Dec 2016*

- Implement the interface of processes and system calls between user programs and the kernel in OS161
- Design and implement a standalone virtual memory manager, where there is a software-managed TLB.
- Tools: Ubuntu, VirtualBox, gcc, gdb, vim, OS161, Sys161

**Analysis and Prediction Report of Real Estate Market Investment Environment in
Johor Bahru – With Existing Chinese Companies***Jun 2015*

- Collected Johor Bahru's economical data and investigated existing Chinese companies' progress.
- Provided forecast of real estate development of Johor Bahru and decision-making advice.

Population Aging and Economic Growth in Different Regions of China*Aug 2013**Graduation paper of M.A. in Economics, SUNY at Stony Brook*

- Implemented Cobb Douglas Production Function with modified Solow Growth Model with CNBS data, forecasted the trend of China's economic growth and population aging.
- Tools: Latex, R language with ggplot2

**Research on Economical and Social Regulation of Danjiangkou Reservoir Region
Chapter 2&3***Oct 2009*

- Predicted the appropriate population level based on environmental capacity and proposed the optimal distribution of population

SKILLS SET

- Languages: Python, R, C/C++, Java, Latex, SQL, HTML/CSS, XML, JSP
- Tool/OS: Pycharm, Rstudio, vim, Matlab/Octave, Wordpress, MySQL; Linux, Unix, Ubuntu.