# Linlin Chen

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**PERSONAL INFORMATION**

**Brrth Date:** December 27th, 1992
**Gender:** Male
**Major:** Computer Science and Technology

**EDUCATION**

**B.S.,** Computer Science and Technology
University of Science and Technology of China
GPA: 3.28/4.3 Rank: 42/93
Expected Date of Graduation: June, 2015

**RESEARCH INTEREST**

- Machine Learning
- Data Mining
- Cloud Computing
- Big Data Analysis
- Artificial Intelligence
- Computer Vision

**HONOURS**

- Outstanding Graduate Award(Grade 1) *November 2011*
- Outstanding Student Scholarship(Grade 2) of USTC *October 2011*
- Outstanding Volunteer Award *May 2012*
- The Ministry of Education's Reward for the Undergraduate Projects of Innovation and Entrepreneurship *May 2014*

**ACTIVITY EXPERIENCE**

*Summer Holiday, 2012*
- Visit Institute of Computing Technology , Chinese Academy of Sciences in Beijing
- Visit Microsoft Research Asia in Beijing

*Summer Holiday, 2013*
- Visit Taobao, Alibaba in Hangzhou
- Visit MicroStrategy in Hangzhou

*November, 2013*
- Participate the Computing in the 21st Century Conference, Microsoft, in Hefei

*December, 2013*
- Participate Microsoft Open Day in Shanghai

*June, 2014*
- Visit Huawei in Shanghai

*July 14, 2014 ∼ August 4, 2014*
- Participate the 2014 Future Network Summer Camp in Nanjing

**PROJECT EXPERIENCE**

***Undergraduate Research Program:***

**Fault Diagnosis in the Model Space** *12/2013 ∼*

This project is mainly focused on the fault diagnosis in the model space. Traditional approaches are mainly based on the prior knowledge of the known model system. However, when applied to the unknown model system or in the imprecise condition, the traditional approach acts poorly. The project is focused on a novel approach in mapping the temporal state to the model space and calculate the distance between different models. We can implement the fault diagnosis according to the distance above. The project is supervised by my mentor Pro. Huanhuan Chen and is scheduled to conclude till October, 2014.

- Related Field:
  - Machine Learning
  - Artificial Intelligence
  - Dynamic System
- Related Knowledge/Skills:
  - Matlab
  - Mathematics(probability theory, linear algebra, etc.)
- Responsibility:
  - Supervised by my mentor, all are done by myself.

***National Undergraduate Projects of Innovation and Entrepreneurship:***

**Point Cloud Image-based Gesture Recognition and its Application on Human-Robot-Interaction System of "KeJia" Domestic Robot** *5/2013 ∼ 5/2014*

This project is mainly focused on the abnormal behaviour detection and security guarantee for the old. The project is developed on ROS(Robot Operating System) and KeJia(The famous domestic robot in USTC). Two other partners cooperate on this project. We realized three main functions:

1. Gesture Recognition: recognize different gestures to control the robot
2. Fall-down Detection: detect the fall-down behaviour and call for help automatically
3. Stranger Recognition: recognize the stranger and notice the master or call the police

- Related Field:
  - Computer Vision
  - Pattern Recognition
  - Machine Learning
  - Natural Language Process
  - Decision System
- Related Knowledge/Skills:
  - PCL(Point Cloud Library)
  - OpenCV
  - ROS(Robot Operating System)
  - Qt
  - Kinect
- Features:

  - The robot can map the route and go on patrol automatically.
  - The master can control the robot's moving by gesture.
  - The robot can follow the master and detect his/her abnormal behaviour, like fall-down, and take the corresponding measures according to the master's response.
  - As the person comes into the house, the robot will follow the person and implement the face-recognition. After querying the local database, the robot can identify the stranger or the acquaintance.
- Responsibility:
  - Responsible for the human detection, using 2D laser data and 3D kinect data.
  - Modify the decision system.
  - Another partner and I are responsible for the stranger recognition.
  - The other partners and I implement the final test.

**SELECTED PROJECTS**

- *Design a simple C compiler:*
  using flex and bison, under Linux, the compiler, which consists thousands of code lines, can support many C features like functions calling and arrays.
- *Embed the security protection for files into the Android OS:*
  embed the code into the Android kernel, realize the files protection in case of unauthorized access.
- *Design a simple search engine:*
  preprocessing webs with Lucene and creating index with ICTCLAS(Institute of Computing Technology, Chinese Lexical Analysis System), the engine can support the searching function in about 198360 articles of "Sina" in year 2012, with quite convenient GUI.
- *Design a simple ticket reservation system with MySQL and Visual C++:*
  support air-plane ticket ordering and room reservation. User can query and get the travelling route.The system can also pormpt the user of incomplete route and give the hints for user to order the air-plane ticket.
- *Design a high precision calculator:*
  support the majority of arithmetic operations on numbers in any range.
- *Design a simple LC-3 CPU with Verilog HDL:*
  realize many basic CPU functions and finally tested in FPGA.

**PROFESSIONAL SKILLS**

- C/C++
- Java, Matlab, SQL, Qt, Python
- LaTeX
- UNIX/Linux, Windows

**ENGLISH PROFICIENCY**

- TOEFL: 93(R:27 L:18 S:20 W:28)
- CET-6: 481
- CET-4: 535