

Yuandong Cyrus Liu

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Address:

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RESEARCH INTERESTS

Program Language, Systems Security, Program Analysis, Formal Methods, Artificial Intelligence

SKILLS

Coding: Matlab > Python = R > C# = Java = C = C++. -> Haskell

- Matlab .m script, Numerical Analytics.
- .Net Framework, Android Programming, Linux (Ubuntu).

Teamwork: Founder of the *Innovation Lab for Mathematical Modeling*, leader of mathematical modeling teams.

EXPERIENCE

Research & Program Experience

2018—Present **Research Assistant**, *Stevens Institute of Technology*, Hoboken, USA

- Automatically Verifying Temporal Alignment of Transformed Software.

8/2017—12/2017 **Teaching Assistant**, *New Jersey Institute of Technology*, Newark, USA

7/2015—3/2017 **Data Mining of Mobile App Store**, *National Engineering Lab for Mobile Network Technologies*, Beijing, China

- Researching on data analysis for mobile application, e.g., ratings, reviews, app rankings, text classification, providing informative reviews for developers and users.
- Gave a paper presentation, *Stratify Mobile App Reviews: Hot “Entity” Discovery* (Published). [SITIS2016](#), Naples, Italy
- Published a paper, *Malicious Application Dynamic Detection in Real-Time API Analysis*.

7/2014—6/2015 **Mobile Network Security Authentication System**, *Software Security Lab of BUPT*, Beijing, China

- Programmed [Android sensitive API monitor module](#), dynamically detect the situation of system API being invoked (Text sending, Internet connecting, Audio recording, Camera, etc.).
- Published a paper, *A Detection Method of Android Application Malicious Behaviors Based on Xposed Framework*.

4/2013—12/2013 **Chinese College Students of Academic Science and Technology “Olympic” Event**, Tangshan, China

- Co-built a [website](#) based on user data to help tourists allot their attractions personally and effectively. I was in charge of the system modeling as well as the analysis of BFS algorithm, designed the ER model of the database.

5/2011—11/2011 **Electrical Laboratory**, Tangshan, China

- Designed a digital stopwatch and co-built an intelligent tracking car, C development on MCU.

Mathematical Contest in Modeling

5/2014—9/2014 [GMCM](#), *National Engineering Laboratory for Disaster Backup and Recovery*, Beijing, China

- Implemented the parameter estimation module of telecommunication channels with matlab code (Regression analysis with specific function), finished the paper successfully and honored with national *Third Prize*. (with over 15000 participants)
- IEEE student membership, *IEEE BUPT Student Branch*.

2/2012—1/2014 [MCM/ICM](#), *Training & Competition*, Tangshan, Hebei, China

- Took and trained with professional mathematical model courses, implemented some of them with [C# code](#).
 - Earned Honorable Mention prizes (with 7783 teams from 19 countries) both in national and international mathematical contest in modeling. I was responsible for the multi-objective optimization model, designed the bits of paper recovery algorithm.
 - Established mathematical modeling innovations laboratory of NCST (Organized mathematical contest, training activities, lectures, and workshop for college students).
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EDUCATION

Ph.D. Computer Science, *Stevens Institute of Technology*, Present

M.S.E. Information Security, *Beijing University of Posts and Telecommunications*, 2017

B.S. Outstanding Honors, Information and Computing Science, *North China University of Science and Technology*, 2014

HONORS & OTHERS

Graduate Assistantship, Stevens Institute of Technology, 2018

The Second Honor Graduate Scholarship 2014-2016

IBM University Program Academic Qualification Advanced Level 2015

Third Prize in National Postgraduate Mathematic Contest in Modeling 2014

Honorable Mention in America Mathematical Contest in Modeling 2013

The First Prize Scholarship 2012-2013 (Twice)

National Scholarship for Encouragement 2012

Outstanding College Students of NCST 2012

Volunteer Abroad

[Friends of the National Parks Foundation](#), Nusa Penida, Indonesia

Interests

Workout, Swimming, Dance (Popping, Waltz Basic), Martial Art