

# Xuan Kan

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🌐 github.com/Wayfear

## Education

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- **Tongji University** **Shanghai, China**
  - *Software Engineering in School of Software Engineering* *Sept.2014–Jul.2018*
  - **GPA:** 4.55/5.0
  - **Ranking:** 22th among 150 students in the School of Software Engineering (Top 14.7%)
  - **Main Courses:** Object-oriented programming(5.0), Computer Networks(5.0), Operation System(5.0), Data Structure(5.0), Data Mining(5.0), Real-time system(5.0)

## Skills

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- **Programming:** Adept in Python, PyTorch, C++, familiar with Java, JavaScript
- **Platforms:** Linux, MacOS, Anaconda

## Research Experience

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**AutoTune: Autonomous Learning for Face Recognition in the Wild** **UK & China**  
*Computer Science Department @ University of Oxford* *Jul.2017–May.2018*

- Proposed a method using Wi-Fi appearance information to label image automatically in wild by Python programming
- Designed and implemented a pipeline framework to label capturing image and fine-tune model
- Hacked GoPro cameras and controlled them remotely with Raspberry Pi
- Conducted voting process to address the problem of unstable labeling accuracy

**HydraDoctor: Real-time Liquids Intake Monitoring** **UK & China**  
*Computer Science Department @ University of Warwick* *Mar.2017–Sept.2017*

- Developed 3 individual apps in Android watch, Google glass and smart phone with Java
- Constructed a communication protocol for those apps via Bluetooth
- Utilized a SVM model to detect action for drinking water in Android Wear OS

**Biometric Verification without Leak** **Shanghai, China**  
*Computer Science Department @ University of Oxford* *Apr.2017–Sept.2017*

- Developed an app in Android Wear OS for collecting user motion data
- Built a website which can slide pattern password for collecting common android pattern password
- Implemented a method like counting cpu time slice to calculate the energy and CPU consumption of watch app

**Bespoke Baidu Map** **Shanghai, China**  
*Software Engineering Laboratory @ Tongji University* *Sept.2016–Apr.2017*

- Used GeoHash to divide Map data in the back-end
- Designed and implemented an android client for this project to show and mark target information
- Completed an 3D view function in front-end with a framework named three.js

## Honor and Awards

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- o 2018 Outstanding Graduates for Tongji University (Top 5%)
- o 2017 National Scholarship (Top 1.6%)
- o 2017 American Mathematical Contest in Modeling (S prize)
- o 2017 Tongji University Programming Competition (Second Prize)
- o 2017 National Undergraduate Innovation Programs
- o 2016 China Undergraduate Mathematical Contest in Modeling (First Prize in Shanghai & Second Prize in National Level)
- o 2016 Android Entrepreneurship Student Challenge by Google Inc.(Sliver Prize)
- o 2015 & 2016 Tongji University Scholarship for Outstanding Students (Twice)

## Publication

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- o Xiaoxuan Lu\*, **Xuan Kan\***, Stefano Rosa, Bowen Du, Hongkai Wen, Andrew Markham, Niki Trigoni. "AutoTune: Autonomous Learning for Face Recognition in the Wild via Ambient Wireless Cues", The Web Conference 2019, formerly known as **WWW (Accept rate 18%, co-first author)**
- o Xiaoxuan Lu, Bowen Du, **Xuan Kan**, Kai Wu, Man Luo, Jianfeng Hou, KaiLi, Salil Kanhere, Yiran Shen, Hongkai Wen. "HydraDoctor: Real-time Liquids Intake Monitoring by Collaborative Sensing", International Conference on Distributed Computing and Networking, **ICDCN'2018**
- o Xiaoxuan Lu, **Xuan Kan**, Bowen Du, Changhao Chen, Hongkai Wen, Andrew Markham, Niki Trigoni, Jack Stankovic. "Poster Abstract: Towards Self-supervised Face Labeling via Cross-modality Association", The 15th ACM Conference on Embedded Networked Sensor Systems, **SensSys'2017**
- o Xiaoxuan Lu, Bowen Du, **Xuan Kan**, Hongkai Wen, Andrew Markham and Niki Trigoni. "VeriNet: Passcode-Preserving User Verification on Smartwatches via Behavior Biometrics", The 1st ACM Workshop on Mobile Crowdsensing Systems and Applications, **CrowdSys'2017** (Colocated with MobiSys)

## Internship

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### Researcher Intern

*SenseTime*

**Beijing, China**

*Feb.2019*

- o Neural Architecture Search in Face Anti-spoofing

### Vocational Training Intern

*Shanghai Labs, SAP*

**Shanghai, China**

*Jun.2016-Aug.2016*

- o Selected as excellent candidate for SAP vocational training project, learned ABAP development

## Open Source Contribution

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### Microsoft/samples-for-ai/Yolo V1 Tensorflow

*Author: Kan Xuan, Luo Yi, Cui Hejie, Ding Yusheng, Li Yuan*

**Python**

*Jun.2018*

- o [https://github.com/Microsoft/samples-for-ai/tree/master/examples/tensorflow/yolo\\_tensorflow](https://github.com/Microsoft/samples-for-ai/tree/master/examples/tensorflow/yolo_tensorflow)
- o Wrote an official sample for Microsoft AI Tools

## Teaching Experience(TA)

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### C Programming

*Maintained the online judge platform and gave problems*

**Fall 2018**