

Ou Changkun

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changkun.us/about

Last update: October 20, 2017

EDUCATION

- **University of Munich (LMU)** Munich, Germany
Master of Science in Human-Computer Interaction since Oct. 2016
- **University of Munich** Munich, Germany
Exchange Student in Media Informatics Sep. 2015 – Feb. 2016
- **Southwest University for Nationalities (SWUN)** Chengdu, China
Bachelor of Engineering in Computer Science; GPA: 3.74/4.0 (1/154) Sep. 2012 – Jun. 2016

WORK EXPERIENCE

- **MagicLingua** Munich, Germany
Fullstack Development (Praktikum) Apr. 2017 – Aug. 2017
 - **alexa-skill**: Developed voice interaction interface for English learner based on Amazon Alexa.
- **Shiyanlou** Chengdu, China
Software Engineer (Intern) Jun. 2016 – Sep. 2016
 - **shiyanlou-logsys**: Built & maintained ELK+Redis distributed log analytics system;
 - **shiyanlou-desktop**: Developed a cross-platform Electron Windows/macOS/Linux desktop client;
 - **shiyanlou-recosys**: Developed a course recommendation system based on collaborative filtering through Python;
 - **shiyanlou-courses**: Wrote 17 crash and advanced tutorials for C++ users.
- **LMU Media Informatics Group** Munich, Germany
Student Research Internship Oct. 2016 – Jan. 2016
 - **Research topics**: Combining motion sensors and touch offset classify hand Posture and users
 - **Prototyping development**: Developed a iOS prototype App for User Study, and finished densely data analysis via Machine Learning algorithm
 - **Paper report**: Finished a report to summarize and conclude all discovering

SELECTED PROJECTS

- **UniWorX Monitor** Munich, Germany
Personal Project Mar. 2017
 - **Tech Stack**: Python, Polymer, Node.js Express, Electron
 - **Description**: Developed an unofficial better LMU UniWorX System with new courses notifications
- **Munich Renting Tool** Munich, Germany
Personal Project Oct. 2016
 - **Tech Stack**: JavaScript, Python, Google Map API, BeautifulSoup4
 - **Description**: A location visualization tool for Munich Studentenwerk private savings
- **Designing Alternative Contact-free Control Modalities for Smart Watches** Chengdu, China
Bachelor Thesis Apr. 2016 – Jun. 2016
 - **Tech Stack**: Swift, Node.js, Web Socket, watchOS, iOS, Leap Motion, Git
 - **Description**: Developed an alternative way – midair gesture control – to operate smart watches
- **Implementation of Interaction Perception Center** Chengdu, China
SWUN National Student-Innovative Project at SWUN Guigu Lab Apr. 2014 – Apr. 2015
 - **Responsibility**: Team leader and development
- **Research on Spetical Interaction** Chengdu, China
SWUN Normal Student-Innovative Project at SWUN Computer Vision Lab Jun. 2013 – Dec. 2013
 - **responsibility**: Team leader and development
- **More Open Source Projects**: github.com/changkun

SKILLS

- **Languages:** python; javascript; c; c++; obj-c; swift; markdown/pandoc; L^AT_EX; Native Chinese Speaker; Professional Fluent English; Elementary German
- **Systems/Tools:** Mac user; General Linux DevOps; Docker; AWS/DigitalOcean/Aliyun; SQL/MongoDB; zsh/tmux/vim/vscode
- **Frameworks:** numpy/opencv/matplotlib/sklearn/tensorflow, flask, jquery/react/vue/polymer/electron, node/express
- **Knowledges:**
 - **Human Side:** Human-Computer Interaction; User Study; User Experience; Product Prototyping; Human Computation; Social Psychology
 - **Machine Side:** Machine Learning; Recommendation System; Big Data Mining; Computer Vision; Distributed Computing; Compiler Technique; System Architecture
 - **Mathematics:** Functional Analysis; Stochastic Process; Analytic Number Theory; Formal Logic and Proof

PUBLICATIONS

- Matthias Geiger, Changkun Ou, Cedric Quintes. *WatchOut: A Road Safety Extension for Pedestrians on a Public Windshield Display*. Lercture Advanced Topics in HCI, IFI LMU, 2017. In Proceedings.
- Changkun Ou, Yifei Zhan, Zhe Li. *A Novel GWAP Disaster Monitoring System*. Lercture Human Computation, IFI LMU, 2017. [English](#)
- Changkun Ou. The Fastest Guide of C++11/14. 2016, [Simplified Chinese](#), [Source Code](#)
- Changkun Ou, Yaxi Chen(responsible professor), Andreas Butz(co-reviwer). Designing Alternative Contact-free Control Modalities for Smart Watches. 2016, Bachelor Thesis. [Simplified Chinese](#), [English](#)
- Changkun Ou. Mathematical Modeling Tutorial (Mandarin Chinese Video Series. 2016, [YouTube Playlist](#)
- Changkun Ou, Yaxi Chen. Combining Touch Biometrics and Motion Sensors for Hand Posture Recognition and User Authentication System. Journal of Southwest University for Nationalities(Nature Science Edition). 2016, 42(4):429-435. [Simplified Chinese](#)
- Changkun Ou, Zhaoyang Guo, Yaxi Chen. Space interactions based on monocular vision and simple gestures. Journal of Southwest University for Nationalities(Natural Science Edition). 2014, 40(16):871-876. [Simplified Chinese](#)
- Changkun Ou, Mu Huang, Mengxin Shi, Jiang Cheng. A Study in Keep-Right-Except-To-Pass Rule. 2014, MCM Meritorious Winner [English](#)

HONORS & AWARDS

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|--|------------------------------|
| • App@Night 2016 hackthon at University of Munich
<i>IBM IoT team Successful Participant</i> | Munich, Germany
Nov. 2016 |
| • hackaTUM at Technical University of Munich
<i>Landeshauptstadt Muenchen Successful Participant</i> | Munich, Germany
Nov. 2016 |
| • China National Scholarship
<i>At UESTC</i> | Chengdu, China
Sep. 2016 |
| • SWUN Bachelor Graduation Thesis Award
<i>Excellent Thesis</i> | Chengdu, China
Jun. 2016 |
| • Sichuan Province University Graduates Award
<i>Outstanding Student</i> | Chengdu, China
Jan. 2016 |

- **First-class Scholarship** Chengdu, China
SWUN Outstanding Student Nov. 2015
- **SWUN College Student-Innovative Activity 2014** Chengdu, China
Annual Excellent Project Jun. 2015
- **The National College Student-Innovative Projects** Chengdu, China
Concluding Certificate Jun. 2015
- **Sichuan Computer Production Competition** Chengdu, China
2nd Award May 2015
- **First-class Scholarship** Chengdu, China
SWUN Outstanding Student Nov. 2014
- **China National Scholarship** Chengdu, China
At SWUN Sep. 2014
- **Sichuan Computer Production Competition** Chengdu, China
2nd Award Jun. 2014
- **Mathematical Contest in Modeling(MCM) 2014** Chengdu, China
Meritorious Winner Apr. 2014
- **First-class Scholarship** Chengdu, China
SWUN Outstanding Student Nov. 2013
- **Mathematical Contest in Modeling(MCM) 2013** Chengdu, China
Successful Participant Apr. 2013

SELECTED PUBLIC ACTIVITIES

- **Juejin Translation Project** [GitHub](#)
Translator, articles translation from English to Chinese since Apr. 2017
 - **Translation:** [How to build complex user interfaces without going completely insane](#)
 - **Proofreading:** [Everyone is a designer. Get over it.](#)
 - **Translation:** [How to pretend youre a great designer](#)
- **Personal Translation**
Translation from English to Chinese since May 2016
 - **[Leap Motion Official Development Documentation Translation](#):** full translation
 - **[Swift 3 API Design Guidelines](#):** full translation
 - **[The Swift Programming Language Chinese Translation](#):** responsible for Release Changes chapter
- **Academic Tutor** Chengdu, China
Cooperation lecture Human-Computer Interaction I between LMU and SWUN Jul. 2015
- **Student Volunteer** Chengdu, China
for Conference Smart Graphics 2015 Aug. 2015
- **SWUN Guigu Lab Team Leader** Chengdu, China
Tutorial for members applying projects Sep. 2014 – Jun. 2015
- **Mathematical Modeling Association Academic Vice Director** Chengdu, China
Academic tutorial for new members Oct. 2012 – Jun. 2014
- **Computer Application and Development Association Core Member** Chengdu, China
Programming tutorial for new members Oct. 2012 – Dec. 2013
- **SWUN Organization federation Excutive Member** Chengdu, China
Design & Organization Oct. 2012 – Jun. 2013