Ou Changkun

Munich, Germany
+49 157 7214 1480
hi@changkun.us
changkun.us/about
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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

- **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.

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

- **Languages:** python; javascript; c; c++; obj-c; swift; markdown/pandoc; LaTeX; 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/skearn/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

- 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

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