

Ou Changkun

Munich, Germany

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+49 157 7214 1480 / +86 186 1322 5636

hi@changkun.us

changkun.us/about

EDUCATION

- **University of Munich** Munich, Germany
Master of Science in Human-Computer Interaction Oct. 2016 – Present
- **Southwest University for Nationalities** 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 course crash and advanced tutorials for C++ users.

PROJECTS

- **Open Source Projects**: github.com/changkun
- **Translation Works (English to Chinese)**: github.com/xitu/gold-miner

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; serverless; Docker; AWS/DigitalOcean/Aliyun; RESTful/GraphQL; SQL/MongoDB/Redis; zsh/tmux/vim/vscode; Sketch/PS/PR/AE/AU
- **Frameworks**: numpy/opencv/matplotlib/sklearn/tensorflow/keras, flask/django, jquery/react/vue/polymer/electron, node/express
- **Knowledge**:
 - **Human Side**: Human-Computer Interaction; User Study; User Experience Design; Product Design; Human Computation; Social Psychology
 - **Machine Side**: Machine Learning; Recommendation System; 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*. Lecture Advanced Topics in HCI, IFI LMU, 2017. In Proceedings.
- Changkun Ou, Yifei Zhan, Zhe Li. *A Novel GWAP Disaster Monitoring System*. Lecture 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*. Bachelor Thesis. 2016. [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*. MCM Meritorious Winner, 2014. [English](#)