

Ou Changkun

Munich, Germany

Last update: December 20, 2017

+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
- **COURSERA** MOOC platform
Andrew Ng: Deep Learning Specializations, certificates: [1](#), [2](#), [3](#), [4](#) Oct. 2017

WORK EXPERIENCE

- **MagicLingua** Munich, Germany
Fullstack Engineer (Freelance) Apr. 2017 – Present
 - **Speech Recognition:** Speech Recognition; Language Level Modeling; angular/typescript/k8s/serverless/;
 - **Nature Language Processing:** Speech Recognition; Language Level Modeling; angular/typescript/k8s/serverless/;
 - **General Frontend Development:** Speech Recognition; Language Level Modeling; angular/typescript/k8s/serverless/;
- **Shiyanlou** Chengdu, China
Software Engineer (Intern) Jun. 2016 – Sep. 2016
 - **Distributed log system:** Distributed log system maintainer; ELK+Redis tech stack
 - **Desktop Client:** Cross-platform desktop client development; Electron based
 - **Recommendation system:** Course recommendation system based; Python written
 - **Written courses:** 17 written tutorials for C++ users
- **LMU Media Informatics Group** Munich, Germany
Student Researcher (Intern) Oct. 2016 – Jan. 2016
 - **Research topics:** Combining motion sensors and touch offset classify hand Posture and users
 - **Works:** iOS prototyping; Machine Learning based appraoch; paper reporting

OPEN PROJECTS

- **Open Source Projects:** github.com/changkun
- **Translation Works:** github.com/changkun/translation

SKILLS

- **Languages:** python; javascript; c; c++; obj-c; swift; markdown/pandoc; L^AT_EX; Native Chinese Speaker; Professional Fluent English; Elementary German
- **Systems/Tools:** macOS user; General Linux DevOps; serverless; Docker; AWS/DigitalOcean/Aliyun; RESTful/GraphQL; SQL/MongoDB/Redis; zsh/tmux/vim/vscode; PS/PR/AE/AU
- **Frameworks:** numpy/opencv/matplotlib/sklearn/tensorflow/keras, flask/django, jquery/angular/polymer/electron, node/express
- **Knowledge:**
 - **Machine Side:** Theory of Statistical Learning (specilize in Deep Neural Networks); Computer Vision (specialize in Object Classification Tracking); Distributed Computing; Compiler Technique;
 - **Human Side:** Human-Computer Interaction; Large Scale User Study; Quantified User Experiences; Crowdsourcing design for Human Computation; Social Psychology Understanding
 - **Mathematics:** Functional Analysis; Stochastic Process; Analytic Number Theory; Formal Logic and Proof

PUBLICATIONS

- Changkun Ou. *Understanding Generalization in Deep Neural Networks*. Advanced Seminar Deep Learning, IFI LMU, 2018. [English](#).
- Changkun Ou. *An Introduction to Recent Mobile Affective Inferring Techniques: Methods, Applications and Their Challenges*. Advanced Seminar Media Computer Science, IFI LMU, 2018. [English](#).
- 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. [English](#).
- 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*. 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](#)