

Ou Changkun

Munich, Germany

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Resume

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Education

- **University of Munich (LMU)** Munich, Germany
Master of Science in Computer Science; current GPA: 2.14/1.00 Apr. 2018 – Present
- **University of Munich (LMU)** Munich, Germany
Master of Science in Human-Computer Interaction; current GPA: 2.14/1.00 Oct. 2016 – Present
- **University of Electronic Science and Technology of China (UESTC)** Chengdu, China
Master of Engineering in Software Engineering Aug. 2016 – Sep. 2016
- **Southwest University for Nationalities (SWUN)** Chengdu, China
Bachelor of Engineering in Computer Science; GPA: 3.74/4.0; Ranking: 1/154 Sep. 2012 – Jul. 2016

Recent Work Experiences

- **LabEx** Munich, Germany
Backend Engineer (Remote) Mar. 2018 – Aug. 2018
 - **Backend:** Go, Microservices
- **Academic Tutor** Munich, Germany
LMU Lecture “[Machine Learning](#)” SoSe 2018 Aprl. 2018 – Jul. 2018
 - **Materials and Notes:** [Homepage](#)
- **MagicLingua** Munich, Germany
Fullstack Engineer (Freelance) Nov. 2017 – Mar. 2018
 - **Speech Recognition:** Neural Network Squeezing; Audio Streaming Solutions
 - **Language Processing:** Conversation Understanding; Language Level Modelling; Answers Fault-tolerance
 - **General Web Development:** Angular; Spring; WebSocket; MongoDB; Elasticsearch; Serverless

Recent Open Projects

- **goscheduler:** [A high-performance reliable task scheduling package in Go](#)
- **Modern C++ Tutorial:** [The fastest guide towards modern C++](#)
- **Tensorflow docs translation:** [Major contribution and project maintainer](#)
- **More open projects:** github.com/changkun

Selected Skills

- **Languages:** go; python; javascript (typescript); c/c++ (for optimization); markdown; L^AT_EX; Native Chinese; Professional Fluent English; Elementary German
- **Systems/Tools:** General Linux DevOps; Docker; AWS/AlibabaCloud; MySQL/MongoDB/Redis
- **Frameworks:** sklearn/tensorflow/keras/opencv/numpy/matplotlib, flask, vue/angular/electron/jquery, node/express, beego/gin-gonic
- **Experienced Fields:**
 - **Human side:** Ubiquitous Interaction Techniques; User Study; Quantified User Experience; Website Prototyping; Crowdsourcing in Human Computation
 - **Machine side:** Statistical Learning Theory (specialize in generalization); Computer Vision (specialize in Convolutional Network methods); Nature Language Processing (specialize in Recurrent Network methods); Distributed Computing (paxos + raft); High Performance Computing; Compiler Technique
 - **Mathematics:** Stochastic Process; Probability; Elementary Number Theory; Formal Logic and Proof
- **Certificates:** Coursera, Andrew Ng: [Deep Learning Specializations](#), certificates: 1, 2, 3, 4, 5

Publications

- Changkun Ou. *Automated UI Discovering for Web Applications*. Master Thesis for HCI Program, Inprogress, 2018.
- Changkun Ou. *An Introduction to Recent Mobile Affective Inference Techniques: Methods, Applications and Challenges*. Advanced Seminar Media Computer Science, IFI LMU, 2018. [English](#), [Slides](#).
- 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. [English](#).
- Changkun Ou, Yifei Zhan, Zhe Li. *A Novel GWAP Disaster Monitoring System*. Lecture Human Computation, IFI LMU, 2017. [English](#)
- 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, 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](#)

Selected Talks

- Changkun Ou. *On the development of Quantified UX Metric*. Design Workshop II, IFI LMU, 2018 [English](#).
- Changkun Ou. *Understanding Generalization in Deep Learning*. Advanced Seminar Deep Learning, IFI LMU, 2018. [English](#), [Video](#).
- Hermann Redich, Patrick Börzel, Isabella Galter, Collin Leiber, Changkun Ou *Convolutional Neural Networks from Zero to Hero*. Advanced Seminar Deep Learning, IFI LMU, 2018. [English](#).
- Changkun Ou. *Mathematical Modelling Tutorial (Mandarin Chinese Video Series)*. 2016, [YouTube Playlist](#)