

# Ou Changkun

Munich, Germany

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## Resume

+49 157 7214 1480 / +86 186 1322 5636

[hi@changkun.us](mailto:hi@changkun.us)

### Education

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- **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

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- **LabEx** Munich, Germany  
*Backend Engineer (Remote)* Mar. 2018 – Present
  - **Backend:** Beego/gin, Automated Cloud Resource Access Management Microservices (Alibaba Cloud + AWS)
- **Academic Tutor** Munich, Germany  
*LMU Lecture “Machine Learning” SoSe 2018* Aprl. 2018 – Jul. 2018
- **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

### Selected Skills

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

### OPEN PROJECTS

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- **Open Projects:** [github.com/changkun](https://github.com/changkun)
- **Translation Works:** [github.com/changkun/translation](https://github.com/changkun/translation)

## Publications

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- Changkun Ou. *On the development of Quantified UX Metric*. Github, 2018 [English](#).
- Changkun Ou. *C++11/14/17 On the Fly: The Fastest Guide towards Modern C++*. Github **2.5k+ Stars**, 2018 [English](#), [Chinese](#).
- Changkun Ou. *An Introduction to Recent Mobile Affective Inference Techniques: Methods, Applications and Challenges*. Advanced Seminar Media Computer Science, IFI LMU, 2018. [English](#), [Slides](#).
- 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](#).
- 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. *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 Modelling 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](#)