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

- **Academic Tutor** — Munich, Germany
  LMU Lecture "Machine Learning" SoSe 2018 — Aprl. 2018 – Present

- **LabEx** — Munich, Germany
  Backend Engineer — Mar. 2018 – Present
  - **Backend**: Beego, Automated Cloud Resource Access Management (AlibabaCloud)

- **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

- **Shiyanlou** — Chengdu, China
  Software Engineer (Intern) — Jun. 2016 – Sep. 2016
  - **Recommendation System**: Online course recommendation system; Python; MongoDB; Collaborate Filtering
  - **Distributed Log System**: Elasticsearch; Logstash; Kibana; Redis
  - **Desktop Client**: Electron based development for macOS/Windows/Linux
  - **Teaching Meterial Writing**: C++ 11/14 based teaching meterial writing

Selected Skills

- **Languages: python**; **javascript (typescript)**; **c/c++ (for optimization)**; **go**; obj-c; swift; markdown; 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

- **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**: github.com/changkun
- **Translation Works**: github.com/changkun/translation

Publications

- Changkun Ou. *C++11/14/17 On the Fly: The Fastest Guide towards Modern C++*. Github, 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.* 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.* 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