Ou Changkun

Resume Munich, Germany Stop talking. Just coding.

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Education

University of Munich (LMU)

Master of Science in Computer Science; current GPA: 2.05/1.00

Munich, Germany Apr. 2018 - Present

University of Munich (LMU)

Munich, Germany

Master of Science in Human-Computer Interaction; current GPA: 1.87/1.00; Transcript Oct. 2016 - Feb. 2018 (exp.)

University of Electronic Science and Technology of China (UESTC) Master of Engineering in Software Engineering

Chengdu, China 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; Transcript

Sep. 2012 - Jul. 2016

Recent Work Experiences

Academic tutor

Munich, Germany

LMU Lecture "Deep Learning and Artificial Intelligence" WiSe 2018/19

Oct. 2018 - Feb. 2019 (expected)

o Materials and notes: Homepage

LabEx

Chengdu, China

Backend engineer (Remote, part-time)

Mar. 2018 - Sep. 2018

• Backend: Go, microservices, transport layer proxy

Academic tutor

Munich, Germany

LMU Lecture "Machine Learning" SoSe 2018

Aprl. 2018 - Jul. 2018

• Materials and notes: Homepage

MagicLingua

Munich, Germany

Nov. 2017 - Mar. 2018

Fullstack engineer (Freelance)

• Speech recognition: Neural network squeezing; Audio streaming solutions

• Language Processing: Conversation understanding; Language level ,odelling; Answers fault-tolerance

• 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 contributor and project maintainer
- Juejin Translation Public Community: major contributor
- GitHub for more: github.com/changkun

Selected Skills

- Languages: go; python; javascript (typescript); c/c++ (for optimization); markdown; LATFX; native Chinese; fluent professional English; elementary German
- Systems/Tools: General Linux DevOps; Docker; AWS/AlibabaCloud; MySQL/MongoDB/Redis
- Frameworks: sklearn/tensorflow/keras/opency/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 strategy

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- Machine side: Statistical learning theory (specialize in generalization); Computer vision (specialize in convolutional network); Computer networks (specialize in transport layer protocols); Nature language processing (specialize in recurrent network methods); Distributed computing (specialize in microservices and consensus protocols)
- o 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 (draft). Master Thesis for HCI, 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. 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, 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. Capsule Network with Routing Mechanism. Advanced Seminar Deep Learning, IFI LMU, 2018 Part 1, Part 2.
- 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