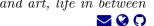
Ou Changkun

Munich, Germany Science and art, life in between

+49 157 7214 1480 / +86 186 1322 5636

Last update: January 9, 2019



Curriculum Vitae

Education

University of Munich (LMU)

Master of Science in Human-Computer Interaction; current GPA: 1.87/1.00; Transcript

Munich, Germany Oct. 2016 - Jan. 2018

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)

Bachelor of Engineering in Computer Science; GPA: 3.74/4.0; Ranking: 1/154; Transcript

Chengdu, China Sep. 2012 - Jul. 2016

Selected Skills

- Languages: go; python; javascript (typescript); c/c++ (for optimization); markdown; LATEX; 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
 - 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)
 - 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, Malin Eiband(advisor), Daniel Buschek(co-advisor), Heinrich Hußmann(responsible professor). Understanding and Predicting Client-side User Clickstream. 2019, Master Thesis.
- 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 questures. 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. Understanding and Predicting Client-side User Clickstream. Masters Defence Presentation, 2019 English.
- 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

Recent Work Experiences

Academic tutor Munich, Germany

LMU Lecture "Machine Learning" and "Deep Learning and Artificial Intelligence"

Aprl. 2018 - Feb. 2019

- o SoSe 2018, materials and notes: Homepage
- WiSe 2018/19, materials and notes: Homepage

LabEx Chengdu, China

VP of Software Engineering (Remote)

Apr. 2018 - Dec. 2018

o Backend: Infrastructure architecting and development: multi-cloud automation, remote desktop protocols, auto scaling, microservices

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

Shiyanlou Chengdu, China

Software Engineer (Intern)

Jun. 2016 - Sep. 2016

- Recommendation System: Online course recommendation system; Python; MongoDB; Collaborate Filtering
- o Distributed Log System: Elasticsearch; Logstash; Kibana; Redis
- Cross Platform Desktop Client: Electron based development for macOS/Windows/Linux
- Teaching Meterial Writing: Modern C++ based teaching meterial writing

Recent Side Projects

- Go under the hood: a book for source code study of programming language Go
- gomat: a matrix package with cache-aware lock-free tiling optimization in Go
- **sched**: a high performance reliable task scheduling package in Go
- Modern C++ Tutorial: Aabook provides 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 Page 2 of 3

Selected Honors & Awards

•	Siemens AILab Hackathon 2nd Winner	Munich, Germany Nov. 2017
•	China National Scholarship at UESTC	Chengdu, China Sep. 2016
•	Excellent Bachelor Graduation Thesis Award $at SWUN$	Chengdu, China Jun. 2016
•	Outstanding University Graduates Student Award at Sichuan Province	Chengdu, China Jan. 2016
•	Outstanding Student Scholarship at SWUN	Chengdu, China Nov. 2015
•	Student Innovative Annual Excellent Project at SWUN	Chengdu, China Jun. 2015
•	Sichuan Province Computer Production Competition 2nd Award	Chengdu, China May 2015
•	China National Scholarship at SWUN	Chengdu, China Sep. 2014
•	Computer Production Competition 2nd Award	Chengdu, China Jun. 2014
•	American Mathematical Contest in Modeling(MCM) 2014 Meritorious Winner	Chengdu, China <i>Apr. 2014</i>
Selected Public Activities		
•	Student Volunteer at Conference Smart Graphics 2015	Chengdu, China <i>Aug. 2015</i>
•	Guigu Lab Team Leader at SWUN	Chengdu, China Sep. 2014 – Jun. 2015
•		Chengdu, China Oct. 2012 – Jun. 2014