Ou Changkun Resume

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Education

University of Munich (LMU) Munich, Germany

Master of Science in Computer Science; current GPA: 2.24/1.00 Apr. 2018 - Present

University of Munich (LMU)

Munich, Germany Master of Science in Human-Computer Interaction; current GPA: 2.24/1.00 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

Skills

• Languages: python; javascript (typescript); c/c++ (for optimization); obj-c; swift; markdown; LATEX; Native Chinese Speaker; Professional Fluent English; Elementary German

Systems/Tools: Mac user; General Linux DevOps; Docker; AWS/DigitalOcean/Aliyun; SQL/MongoDB; zsh/tmux/vim/vscode

• Frameworks: sklearn/tensorflow/keras/opency/numpy/pandas/matplotlib, flask, jquery/vue/angular/electron/polymer, node/express

• Knowledges:

o Human side: Ubiquitous Interaction Techniques; Large-scale User Study; Quantified User Experience; Website Prototyping; Crowdsourcing in Human Computation; Social Psychology

- o 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

Work Experience

Academic Tutor Munich, Germany

LMU Lecture "Machine Learning" SoSe 2018 Aprl. 2018 - Present

MagicLingua Munich, Germany

Fullstack Engineer (Freelance) Nov. 2017 - Present

o Speech Recognition: Neural Network Squeezing; Audio Streaming Solutions

- o Language Processing: Conversation Understanding; Language Level Modelling; Answers Fault-tolerance
- o 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

- o 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

LMU Media Informatics Group

Munich, Germany Student Researcher (Intern) Oct. 2016 - Jan. 2016

- o Research topic: Combining motion sensors and touch offset classify hand Posture and users
- o Outcomes: A iOS prototype App for User Study, densely data analysis via Support Vector Machine; paper report

Academic Tutor

Chengdu, China Jul. 2015

Cooperation lecture "Human-Computer Interaction I" between LMU and SWUN

OPEN PROJECTS

• Open Projects: github.com/changkun

• Translation Works: github.com/changkun/translation

Publications

- 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