

TAO HU

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School of Electronics Engineering and Computer Science (EECS), Peking University

🎓 EDUCATION

- Msc in Computer Science** Sep.2015 - Jul.2018
Graphics and Interactive Lab, Peking University, Beijing, China
Advisor: Wang Heng
- Dual Degree in Computer Science** Sep.2009 - Jul.2011
Huazhong University of Science and Technology, Wuhan, China
- B.E in Surveying and Mapping Engineering** Sep.2008 - Jul.2012
Wuhan University, Wuhan, China

🔍 RESEARCH INTEREST

- image segmentation, human pose estimation, and dense pixel prediction task in computer vision.
- machine learning, and optimization method.

👥 INTERN AND WORKING EXPERIENCE

- intern in Megvii Inc.** Beijing, China July.2017 - Current
Deep Learning Research Intern: Human Pose Estimation
Mentor: Gang Yu
Our team won the 2017 coco keypoint detection first prize. my duty is to combine top-down and bottom-up method in human pose estimation based on hourglass architecture. which in detail includes writing some pre-processing and post-processing functions to form a complete skeleton, and the neural network training.
- intern in XiaoMi Inc.** Beijing, China January.2017 - May.2017
Deep Learning Research Intern: Image Segmentation
Mentor: Deli Zhao
During the intern, I was focused on the progressive image segmentation algorithm implementation. I reproduce deeplab in tensorflow, then apply the algorithm on the baseline of deeplab. finally gain 1% mIoU improvement in PascalVOC dataset.
- working in Cheetah Mobile Inc.** Beijing, China Jan.2015 - Aug.2015
Machine Learning Engineer
My duty is to implement the news recommendation feed via some deep learning algorithm. Specifically, I mainly setup a deep learning system that can generate classification attributes of every passage.
- working in PPTV Inc.** Shanghai, China July.2012 - Dec.2014
Software Development Engineer
Setup a whole Content Management System for the PPTV editor's daily use; android development about the user profile module in PPTV; design and implement the server infrastructure of the new product named "Yunbo".

COURSES

Bayesian Theory and Method(Audition) Zhihua Zhang	2017 Autumn
Algorithms for Big Data Analysis Zaiwen Wen	2017 Spring
Advanced Topic in Computer Vision(Audition) Yadong Mu	2017 Spring
Deep Learning Zhihua Zhang	2017 Spring
Manifold Learning and Sparse Coding(Audition) Zhouchen Lin	2017 Spring
Convex optimization(Audition) Zaiwen Wen	2016 Autumn
Machine Learning Kedian Mou	2016 Spring

PUBLICATION

Hard Sample Mining Loss for Human Pose Estimation	submission to ICPR
Sobel Kernel Prior in Image Segmentation	draft,will submit to ICIP recently

REFEREES

Zhihua Zhang zhzhzhang@math.pku.edu.cn

*Professor in School of Mathematical Sciences, Peking University
Director of Deep Learning Lab, Peking University*

Yadong Mu myd@pku.edu.cn

Assistant Professor, Head for Machine Intelligence Lab, Institute of Computer Science Technology, Peking University

Gang Yu yugang@megvii.com

PHD from NTU, Leader for the Detection Team @ Megvii (Face++) Inc

Heng Wang hw@pku.edu.cn

PHD from Cambridge University, currently Assistant Professor, Graphics Labs of EECS, Peking University

Deli Zhao zhaodeli@xiaomi.com

Research Manager, XiaoMi Inc

TEACHING EXPERIENCE

Teaching Assistant, Professor Gerrit, Human and Social Factors in the Interaction Design Jul.2016
Summer School, Peking University

HONORS AND AWARDS

Best Blockchain Application of the AWS Hackathon	Sep.2016
Peking University Academic Scholarship	2015, 2016
Wuhan University Scholarship	2008, 2009, 2010

PROFESSIONAL SKILLS

Python, Java, Caffe, Keras, Tensorflow, Latex

MISCELLANEOUS

- MainPage: <http://www.taohu.me>
- GitHub: <https://github.com/dongzhuoyao>