## Shuo Chen

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RESEARCH INTERESTS

**EDUCATION** 

Computer Vision, Transfer Learning

University of Amsterdam

01/2018 - Present

Intelligent Sensory Information Systems

PhD Candidate

Advisor: Prof. Cees Snoek

Tsinghua University

09/2014 - 06/2017

Department of Electronic Engineering

Master of Engineering

Advisor: Prof. Qingmin Liao

Nanjing University of Post and Telecommunication

09/2010 - 06/2014

School of Internet of Things Bachelor of Engineering

**GRADUATE** COURSES

Pattern Recognition

Digital Image Processing and its Applications

Big Data Systems Big Data Analytics

Big Data Acquisition and Intelligent Processing

Machine Learning Foundations (Self Study on Coursera)

PUBLICATIONS Title Master Thesis: Research on Transfer Learning Algorithm based on Generating

Weighted Subspaces

An extensive study of transfer learning, including my two main work when I study for a master's degree. The first work is about unsupervised domain adaptation. I proposed the Weighted Subspace Alignment algorithm, using for image classification. The second one is about semi-supervised domain adaptation. In this part, I designed an attention-based deep neural network, training a classifier for action recognition.

Shuo Chen, Fei Zhou and Qingmin Liao, "Visual Domain Adaptation using Weighted Subspace Alignment", the IEEE International Conference on Visual Communications and Image Processing (VCIP), 2016. (Oral)

RESEARCH **EXPERIENCES**  Visiting Student

11/2016 - 01/2018

Multimedia Research Center, Shenzhen Institute of Advanced Technology, Chinese

Academy of Sciences

Advisor: Prof. Yu Qiao and Prof. Yali Wang

Project: Visual Domain Adaptation Challenge

The goal of this challenge is to develop a method of unsupervised domain adaptation for image classification.

Project: Action Recognition

I trained deep networks using Caffe. I designed an attention scheme and added it to the two-stream deep neural network. The two-stream network includes temporal network (RGB images) and spatial network (flow images). We hope the attention scheme could learn weights that tell us which parts of the frames are beneficial for classification.

Research Assistant

02/2015 - 06/2017

Visual Information Processing Lab, Graduate School at Shenzhen, Tsinghua University Advisor: Prof. Qingmin Liao and Dr. Fei Zhou

Project: Visual Domain Adaptation

Visual domain adaptation methods attempt to learn a classifier on a labeled source domain and transfer it to a target domain. In this project, I designed a new algorithm based on subspace alignment and implemented the algorithm using Matlab. We gave each source sample a weight and then performed weighted PCA to obtain subspace. The weight was calculated based on the distance.

## COMPUTER SKILLS

**AWARDS** 

Tensorflow, PyTorch, Caffe, Python, MATLAB, C/C++, LATEX

Guanghua Scholarship (second prize)	10/2016
Foxconn Scholarship (second prize)	12/2015
School Club Contribution Award	11/2013
School Club Contribution Award	12/2012

## **INTERNSHIPS**

Algorithm Developer Intern

03/2016 - 07/2016

Shenzhen Cloudream Technology Co., Ltd.

• I designed and wrote algorithms to remove seams in stitched face images with OpenCV using C++.