

Xiaofang WANG

I am a researcher and engineer on machine learning and deep learning and blending them with many real-life applications across computer vision, geography.

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<https://xiaofanglegoc.github.io/>



EDUCATION

PhD, Ecole centrale de Lyon (ECL), France —
computer vision

Sep. 2011 - March 2015

Title: Unsupervised image segmentation and multiple object tracking based on graph

MS, Central south university, ChangSha, China —
Biomedical Engineering

Sep. 2009 - Jun 2011

Liver CT image segmentation based on active contour models

BS, Centrale south university, Changsha, China —
Biomedical Engineering

Sep. 2005 - Jun. 2009

Topic: Medical image segmentation

TEACHING

Introduction to algorithms

First-year engineer, 2015-2017

Object oriented programming with Python

First-year engineer, 2015-2017

Web applications and database

First-year engineer, 2015-2017

EMPLOYMENTS

University of Reims, and Inria
Post-doc —

May. 2020- Now

Topic: 3D human performance capture

Siradel, R&D — Saint Gregory

JAN 2019 - April 2020

Topic: Aerial imagery understanding

INRIA, R&D Post-doc — Rennes

April 2018 - Jan 2019

Topic : Crowd detection, tracking and counting

ECL, Post-doc fellowship — Lyon

Sep 2017 - March 2018

Topic : 3D object recognition and retrieval

ECL, Associate professor — Lyon

Sep 2017 - March 2018

- Teaching on tutorial courses, group works and projects
- Research on Deep Learning and Domain Adaptation

SKILLS

Program language

Python/ C++/ Matlab/ HTML/CSS/ Javascripts

PROJECTS

ECL, Visen — *tagging the visual content with semantic labels*

2011 - 2015

ECL, Pikaflex — *picking and kitting objects with an automatic robot grasp system*

2017 - 2018

INRIA, SafeCity — *video understanding and surveillance system applying in key sites within different cities of France*

2018- 2019

LANGUAGES

Chinese – *native speaker*

English – *speaking and writing with scientific papers*

French – *speaking fluently with french people and teaching with it*

Point in, Box out: Beyond Counting Persons in Crowds. Yuting liu, Miaoqing Shi, Qijun Zhao, Xiaofang Wang. (**CVPR'2019**)

Fusing Generic Objectness and Deformable Part-based Models for Weakly Supervised Object Detection

Yuxing Tang, Xiaofang Wang, Emmanuel Dellandréa, Simon Masnou, Liming Chen
(**ICIP**), Paris, 2014. (**Equal contribution**)

Visual and Semantic Knowledge Transfer for Large Scale Semi-Supervised Object Detection Yuxing Tang, Josiah Wang, Xiaofang Wang, Boyang Gao, Emmanuel Dellandrea, and Liming Chen. (**T-PAMI**), 2018, vol. 40, no 12, p. 3045-3058.

Deep Learning Software

Tensorflow/ Pytorch/ Caffe etc

Documents software and language

Markdown/ Latex/ Word Office etc.

RESEARCH INTERESTS

Machine learning —

- Unsupervised learning
- Weakly supervised learning
- Deep learning
- Domain adaptation

Computer vision —

- Image segmentation
- Object tracking
- Image semantic segmentation
- Object localization and recognition
- Scene understanding
- Pose estimation
- 3D human performance capture
- Image classification
- Remote imagery classification/ segmentation etc.

SELECTED PUBLICATIONS

Active Colloids Segmentation and Tracking

Xiaofang Wang, Boyang Gao, Simon Masnou, Liming Chen, Isaac Theurkauff, Cécile Cottin-Bizonne, Yuqian Zhao, Frank Shih
Pattern Recognition (PR) vol.60, pp. 177-188, 2016

A Global/Local Affinity Graph for Image Segmentation

Xiaofang Wang, Yuxing Tang, Simon Masnou, Liming Chen. *IEEE Transactions on Image Processing (TIP)*, vol. 24(4), pp.1399-1411, 2015