

# Yong Yuan

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## Education

### University of Chinese Academy of Sciences

M.S. IN SIGNAL AND INFORMATION PROCESSING

Beijing, China

Sep. 2013 - Jul. 2016

### Xidian University

B.S. IN SCIENCE AND TECHNOLOGY OF THE ELECTRONICS INFORMATION

Xi'an, China

Sep. 2009 - Jul. 2013

## Professional Experience

### Kuaishou

ALGORITHM ENGINEER

Beijing, China

Dec. 2016 - Present

- Designed and developed two logo recognition algorithms based on OCR and Faster RCNN. Updated old logo recognition based on local feature. The precision is 99.6% and the logo algorithms recall 70,000 logo videos if the number of uploaded videos is 6400,000.
- Researched and developed content-based image retrieval system based on fusion CNN feature and hand-craft feature. The mean average precision achieved 80% on Oxford Building dataset.

### Meituan

ALGORITHM DEVELOPER

Beijing, China

Jul. 2016 - Dec. 2016

- Designed and Developed anti-cheat strategies to fetch sellers who violate the rules of the meituan online takeaway platform.
- Analyzed data of the meituan takeaway business for risk control. Did report forms to monitor some important data.

### Etracker Team (Student's Start-up)

ALGORITHM ENGINEER

Xi'an, China

Oct. 2015 - Jul. 2016

- Designed and implemented eye-gaze detection algorithms to track pupil using C++, OpenCV and OpenMP.
- Implemented eye tracker calibration algorithms to map attention coordinates to screen coordinates, and developed pupil tracking desktop application using QT.

### OPTical Imagery Analysis and Learning Lab (Prof. Xuelong LI)

RESEARCHER FOR CONTENT BASED IMAGE RETRIEVAL (CBIR), UNDERGRADUATE RESEARCH

Xi'an, China

Sep. 2013 - Jul. 2016

- Researched large-scale content based image retrieval method including hashing based method and product quantization method.
- Proposed new hashing based methods for CBIR using sparse coding and matrix factorization.
- Built object detection system using HOG and SVM method for a 973 program.

## Personal Projects

### CNN for Image Retrieval

DEEP LEARNING, [CODE](#)

Apr. 2015 - Apr. 2016

- Researched content-based image retrieval using VGG convolutional neural network.
- Implemented prototype that users can obtain semantic similarity image relevant to a query on web site.
- Optimized the query response speed to make sure it responds to the user's query in a timely manner.

### Hashing Baseline for Image Retrieval

APPROXIMATE NEAREST NEIGHBOR RESEARCH, [CODE](#)

Feb. 2013 - Jun. 2016

- Designed a framework to validate the performance of various hashing methods with different evaluations.
- Implemented some hashing methods, and proposed new hashing method for image retrieval.

### DuplicateSearch

OBJECT RETRIEVAL

Jun. 2015 - Mar. 2016

- Implemented the BoW, VLAD, and Fisher Vector encoding methods using VLFeat, and conducted object retrieval experiments on a 100,000 clothes and shoes image dataset.
- Built multithreads using openMP to speed up feature extraction and clustering.
- Improved the mean average precision using the RANSAC reranking algorithm.

### SeetaFaceLib

FACE IMAGE RETRIEVAL SYSTEM, [CODE](#)

Sep. 2016 - Oct. 2016

- Developed a face image retrieval system using CNN method based on SeetaFaceEngine.
- Optimized the query response speed using Local Sensitive Hashing method.

## Writing

- Xuelong Li, Yong Yuan and Xiaoqiang Lu, Latent Semantic Minimal Hashing for Image Retrieval. IEEE TIP, 2016 (MINOR REVISION)
- Yong Yuan, Xiaoqiang Lu, and Xuelong Li. Learning Hash Functions Using Sparse Reconstruction. ACM ICIMCS, pp. 14-18, 2014 (Best Paper Runner-up Award)

## Technical Skills

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**Programming** C++/C, Python, Matlab, SQL, HTML, CSS, LaTeX  
**Tools** OpenCV, Caffe, Xcode, QT, Jupyter, Git, Django  
**Languages** Chinese, English

## Honors & Awards

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2016.4 **Merit Student**, University of Chinese Academy of Sciences  
2012.11 **National Scholarship**, Xidian University  
2011.11 **The First Prize Scholarship**, Xidian University  
2010.11 **National Scholarship for Encouragement**, Xidian University