

# Yannis Kalantidis

## Education

2009–2014 **Ph.D. in Computer Science**, *School of Electrical and Computer Engineering*, National Technical University of Athens, Greece.  
2002–2009 **Diploma/M.Eng. in Electrical and Computer Engineering**, National Technical University of Athens, Athens, Greece.

## Working Experience

Feb 2017 – Present **Research Scientist**, *Facebook AI*, Menlo Park, CA,  
Research and development on video representations, web-scale learning, visual relationship detection, multi-modal learning.  
Jan 2015 – Dec 2016 **Research Scientist**, *Yahoo Research*, San Francisco, CA,  
Research and development on web-scale visual search, classification from noisy data, video representation, adversarial & unsupervised learning. Collaborated with Stanford on the Visual Genome project [IJCV, 2016] (<https://visualgenome.org/>).

## Scientific Publication, Patent & Citation Records

Publications Papers published in CVPR, NIPS, ICCV, ECCV, IJCV, CVIU, ACM MM, ICMR, WSDM, CHI and other.  
Citations Google Scholar citations: **1229 citations**, **h-index: 13**, **i10-index: 15** (Sept. 2018)  
Patents 2 US Patents, 4 US Patent Applications & 2 Defensive Publications.

## Selected Recent Publications

**Y. Kalantidis** and Y. Avrithis. *Locally Optimized Product Quantization for Approximate Nearest Neighbor Search*. CVPR, 2014.  
Y. Avrithis, **Y. Kalantidis**, E. Anagnostopoulos and I. Z. Emiris. *Web-scale image clustering revisited*. ICCV (oral), 2015.  
**Y. Kalantidis**, C. Mellina and S. Osindero. *Cross-dimensional Weighting for Aggregated Deep Convolutional Features*. ECCV VSM Workshop, 2016.  
**Y. Kalantidis**, A. Farahat, L. Kennedy, R. Baeza-Yates and D.A. Shamma. *Visual Congruent Ads for Image Search*. ICPR, 2016.  
**Y. Kalantidis**, L. Kennedy, H. Nguyen, C. Mellina and D.A. Shamma. *LOH and behold: Web-scale visual search, recommendation and clustering using Locally Optimized Hashing*. ECCV VSM Workshop, 2016.  
R. Krishna, ..., **Y. Kalantidis et al.** *Visual Genome: Connecting Language and Vision Using Crowdsourced Annotations*. IJCV 2017.  
P. Garrigues, S. Farfadi, H. Izadinia, K. Boakye and **Y. Kalantidis**. *Tag Prediction at Flickr: a View from the Darkroom*. NIPS LSCV Workshop, 2016 (**Best paper award**).  
L. Jiang, **Y. Kalantidis**, L. Cao, S. Farfadi, J. Tang and A. Hauptmann. *Delving Deep into Personal Photo & Video Search*. WSDM, 2017.  
S. Chancellor, **Y. Kalantidis**, J.A. Pater, M. De Choudhury, D.A. Shamma *Multimodal Classification of Moderated Online Pro-Eating Disorder Content*, CHI, 2017.  
L. Jiang, L. Cao, **Y. Kalantidis**, S. Farfadi and A. Hauptmann. *MemexQA: Visual Memex Question Answering*. ArXiv, 2017.  
J. Zhang, **Y. Kalantidis**, M. Rohrbach, M. Paluri A. Elgammal, M. Elhoseiny. *Large-Scale Visual Relationship Understanding*. ArXiv, 2018.  
Y. Chen, **Y. Kalantidis**, J. Li, Y. Shuicheng, J. Feng. *Multi-Fiber Networks for Video Recognition*. ECCV, 2018.  
Y. Chen, **Y. Kalantidis**, J. Li, Y. Shuicheng, J. Feng. *A<sup>2</sup>-Nets: Double Attention Networks*. NIPS, 2018.

## Research Interests

Computer Vision & Deep Learning  
Approximate nearest neighbor search [LOPQ, CVPR 2014]  
Web-scale clustering [AGM, ECCV 2012] [IQ-Means, ICCV 2015]  
& Aggregated Deep Convolutional Features [Crow, ECCV-W 2016]  
Deep embeddings for Personal Media Search [WSDM 2017, AAAI 2017]  
Distributed hashing and visual recommendations [LOH, ECCV-W 2016]  
Question answering for personal media search [MemexQA, Arxiv 2017]  
Web-scale Visual Relationship Detection [Arxiv 2018]  
Spatio-temporal Video Representations [Multi-Fiber Net, ECCV 2018, A<sup>2</sup>-Nets NIPS 2018]

## Development projects

VIRaL Principal developer in the Visual Image Retrieval and Localization tool (On-line demo: <http://viral.image.ntua.gr>).  
LOPQ Principal developer in the open source code for Locally Optimized Product Quantization (Available on Yahoo's github: <https://github.com/yahoo/lopq>).  
Crow Principal developer in the open source code for Cross-dimensional feature Weighting for convolutional features (Available on Yahoo's github: <https://github.com/yahoo/crow>).

## Programming skills

Programming Python, C/C++, familiar with Spark, Caffe2, Tensorflow, pyTorch.