

# PhD in Computer Science (Multimedia)

We are looking for excellent candidates for 3 funded PhD positions at [VIREO](#), [Computer Science Department](#), [City University of Hong Kong](#). The researches, to be undertaken by the students, include (but not limited to):

Video hyperlinking: Investigation of techniques for “linking things inside multimedia archive” with the aim of enabling video content more easily accessible and consumable. The range of topics includes algorithms for mining significant objects, theories and practices in the selection of sources (link anchors) and destinations (link targets) of video fragments for hyperlinking.

Multimedia analytics: Investigation of techniques that integrate user (user behavior modeling), data (multimedia analysis) and space (analytical presentation) for exploratory video search. The project targets for multi-perspective information navigation, visualization and serendipity-based recommendation.

Cross-modal search by deep learning: Investigation of deep architectures and learning strategies for cross-modal zero-shot retrieval. The target applications are known-item search, question-answering, food recognition and cooking recipe retrieval.

The doctoral students will be supervised by Prof. [Chong-Wah Ngo](#). The students will have access to the computing resources provided by VIREO at Hong Kong and CityU Shenzhen Research Institute at China.

## Required qualifications

1. MSc or BSc in a field related to one of the following: computer science, electrical engineering, artificial intelligence, applied mathematics.
2. Some knowledge in multimedia computing, machine learning, information retrieval or natural language processing.
3. Strong programming skills.
4. Ability to communicate and report research results in English.

## Studentship

PhD students will receive a monthly stipend of USD \$2,000 to USD \$2,600, depending on qualification and academic performance. The duration of PhD is 3 years (extendable to 4 years).

**Starting date:** By *September 2017*

To apply, please send your application package (CV, publication record, academic transcripts, research statement / motivation letter) to Prof. Chong-Wah Ngo [cscwngo@cityu.edu.hk](mailto:cscwngo@cityu.edu.hk) before November 20th 2016. For more information about this position, please contact Prof. CW Ngo.

Link to Department of Computer Science: <http://www.cs.cityu.edu.hk/>

Link to VIREO: <http://vireo.cs.cityu.edu.hk/>