

Jun Yang

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OBJECTIVE A permanent position in research-oriented IT companies or financial corporations. Areas of interest include multimedia analysis and search, machine learning, and data mining, and quantitative finance.

EDUCATION

CARNEGIE MELLON UNIVERSITY, SCHOOL OF COMPUTER SCIENCE

Pittsburgh, PA

Ph.D. in Language and Information Technologies

Fall 2008 (Expected)

Author of **40+ publications**, winner of **3 Best Paper awards** and **3 Best Project awards**

GPA: 3.99/4.0, IBM Ph.D. Fellowship recipient

ZHEJIANG UNIVERSITY

Hangzhou, China

M.S. and B.S. in Computer Science and Engineering

Jun 2000 & Apr 2003

GPA: 3.97/4.0, ranked 1st in department of 100

EXPERIENCE

CARNEGIE MELLON UNIVERSITY

Pittsburgh, PA

Research Assistant, Informedia Group

Aug 2003 – Present

- Proposed and applied machine learning techniques to improve annotation and search of multimedia and text data, including video concept detection, video annotation with names and locations, and text categorization
- Designed and implemented the video search engine of Informedia digital library system
- Developed the 2nd ranked interactive video search system in TRECVID competition of 2005

IBM T. J. WATSON RESEARCH CENTER

New York

Intern, Intelligent Information Management Department

Jun 2007 – Aug 2007

- Contributed to the development of the award-winning IBM BlueSky system for managing and searching large-scale media content for enterprise customers including Fox News and MySpace

CITY UNIVERSITY OF HONG KONG

Hong Kong, China

Research Assistant, Department of Computer Science

Sep 2001 – Jun 2002

- Initiated a project on searching online images, videos, and animations using link analysis and visual features

MICROSOFT RESEARCH ASIA

Beijing, China

Intern, Media Computing Group

Jul 2000 – Sep 2000

- Investigated semantics-based search and browsing of photo albums using knowledge bases (lexicons)

ZHEJIANG UNIVERSITY

Hangzhou, China

Research Assistant, Zhejiang University - Microsoft Visual Perception Lab

Sep 1999 – Apr 2003

- Conducted research on content-based image retrieval, computer animation, and digital library

SIEMENS

Vienna, Austria

Intern, Euro-Asia Business Internship Program sponsored by European Union

Jul 1999 – Aug 1999

SKILLS

Programming: C/C++, Perl, Matlab, Java, C#, Visual Studio .NET

Machine learning: classifiers, transfer learning, probabilistic graphical models, multi-instance learning

Other: statistical analysis, quantitative skills, information retrieval, feature extraction and selection, SQL

AWARDS

BEST PAPER & PRESENTATION

- **Best application paper** at International SIAM Conference on Data Mining, *Apr. 2007*. (1% selection rate)
- **Best student paper** at International Conference on Image and Video Retrieval, *Jul. 2006*. (1% selection rate)
- **Best presentation** at Student Research Symposium, Language Technology Inst, Carnegie Mellon Univ., *2006*.
- **Best paper runner-up** at ACM Multimedia 2004, *Oct. 2004*. (1% selection rate)

BEST COURSE PROJECT

- **Best project** on Software Engineering for Information System: *Active learning for named-entity detection*, Carnegie Mellon Univ., *Dec. 2007*.
- **Best project** on Probabilistic Graphical Models: *Harmonium models for semantic video representation and classification*, Carnegie Mellon Univ., *Dec. 2005*.
- **Best project** on Language and Statistics: *Detection of artificial documents*, Carnegie Mellon Univ., *May 2004*.

MATHEMATICAL CONTEST

- **Meritorious** in 16th International Mathematical Contest in Modeling, *Feb, 2000*.
- **Meritorious** in 15th International Mathematical Contest in Modeling, *Feb, 1999*.
- **First Prize** in National Mathematical Contest in Modeling, China, *1998*.

FELLOWSHIPS & HONORS

- **IBM Ph.D. Fellowship**, 2007-2008 (6 new recipients in US)
- **Watson Emerging Leaders in Multimedia**, IBM T.J. Watson Research, 2006 (awarded to 8 students in US)
- Carnegie Mellon Research Fellowship, 2003 – *Present*
- Rockwell Scholarship, 2001
- Euro-Asian Business Internship Program, European Union, 1999. (100 students selected in Asia)
- China Jian Hao Scholarship of Outstanding Student, 1999 (awarded to 50 students in China)
- Zhejiang University President's (Zhu Kezhen) Scholarship, 1999 (awarded to 10 students in University)

SELECTED PUBLICATIONS (from 40+ referred conference and journal publications)

- Jun Yang, R. Yan, A. Hauptmann, *Cross-Domain Video Concept Detection using Adaptive SVMs*, in ACM Multimedia 2007.
- Jun Yang, Y. Liu, E. Xing, A. Hauptmann, *Harmonium Models for Semantic Video Representation and Classification*, in SIAM Conf. on Data Mining (SDM), 2007. **Best Application Paper**
- Jun Yang, A. Hauptmann, *Annotating News Video with Locations*, in Int'l Conf. on Image and Video Retrieval (CIVR), 2006, **Best Student Paper**
- Jun Yang, R. Yan, A. Hauptmann, *Multiple Instance Learning for Labeling Faces in Broadcasting News Video*, in ACM Multimedia 2005.
- R. Yan, Jun Yang, A. Hauptmann, *Learning Query-Class Dependent Weights in Automatic Video Retrieval*, in ACM Multimedia 2004, **Best Paper Runner-up**
- Jun Yang, A. Hauptmann, *Naming Every Individual in News Video Monologues*, in ACM Multimedia 2004.
- Jun Yang, M.Y. Chen, A. Hauptmann, *Finding Person X: Correlating Names with Visual Appearances*, in Int'l Conf. on Image and Video Retrieval (CIVR), 2004.
- Jun Yang, Q. Li, Y. Zhuang, *Towards Data-adaptive and User-adaptive Image Retrieval by Peer Indexing*, International Journal on Computer Vision (IJCV), Vol. 56, 1-2, 2004.

HOBBIES

Nature photography, Travel (10 countries, 40+ states in US), Classical music, Cycling, The Pittsburgh Steelers