

Chen Wang

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RESEARCH INTERESTS Discrete Optimization, Algorithm Analysis, Computer Vision, Machine Learning

EDUCATION **Cornell University** Ithaca, NY, USA
Ph.D Candidate Aug. 2012 – present

- GPA: 4.26/4.00

Fudan University Shanghai, China
Bachelor of Science Sept. 2008 – Jun. 2012

- GPA: 3.95/4.00, Rank: 1/91, Major GPA: 4.00/4.00

PUBLICATIONS Alex Fix, **Chen Wang** and Ramin Zabih, “A Primal-Dual Algorithm for Higher-Order Multilabel Markov Random Fields”, in *Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 1138–1145, 2014.

Chen Wang, Junping Zhang, Liang Wang, Jian Pu and Xiaoru Yuan, “Human Identification Using Temporal Information Preserving Gait Template”, *IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI)*, 34(11): 2164–2176, 2012.

Yushu Liu, Junping Zhang, **Chen Wang** and Liang Wang, “Multiple HOG Templates for Gait Recognition”, in *Proceedings of 21st International Conference on Pattern Recognition (ICPR)*, pp.2930–2933, 2012.

Chen Wang, Keping Bi, Yunhua Hu, Hang Li and Guihong Cao, “Extracting Search-Focused Key N-Grams for Relevance Ranking in Web Search”, in *Proceedings of 5th ACM International Conference on Web Search and Data Mining (WSDM)*, pp. 343–352, 2012.

Chen Wang, Junping Zhang, Jian Pu, Xiaoru Yuan and Liang Wang, “Chrono-Gait Image: A Novel Temporal Template for Gait Recognition”, in *Proceedings of 11th European Conference on Computer Vision (ECCV)*, part I, LNCS 6311, pp. 257–270, 2010.

EXPERIENCE AND PROJECTS **Cornell University** Jan. 2013 – present
Research Assistant, supervised by Prof. Ramin Zabih

- Inference and Learning Algorithms for Higher-order Multi-label MRF energy Project
- Efficient Algorithms for 0-Extension Problem on Median Space Project (cooperate with Prof. Robert Kleinberg)

Microsoft Research New England May. 2014 – Aug. 2014
Research Intern, supervised by Dr. Sham Kakade

- Unsupervised Deep Neural Network Project

Microsoft Research Asia Feb. 2011 – Sept. 2011
Research Intern, supervised by Dr. Yunhua Hu and Dr. Hang Li

- Search-Focused Key N-Grams Extraction Project

Shanghai Key Lab of Intelligent Information Processing, Fudan University Nov. 2008 – Jun. 2012
Research Assistant, supervised by Prof. Junping Zhang

- Spatial-Temporal Gait Template Project

Fudan’s Undergraduate Research Opportunities Program (UROP) Apr. 2010 – May. 2012
Chun-Tsung Scholar

- Elected as the excellent program

Fudan ACM-International Collegiate Programming Contest (ACM-ICPC) Team Sept. 2007 – Sept. 2008
Contestant

PROFESSIONAL
ACTIVITIES

Reviewer: *TPAMI, TIP, Pattern Recognition, CVPR'14, ECCV'14, ACML'14, ICONIP'12*

Teaching Assistant

- CS 1112 Introduction to Matlab, Fall 12, Cornell University
- CS 5540 Computational Techniques for Analyzing Clinical Data, Spring 13, Cornell University
- CS 6820 Analysis of Algorithms, Fall 13, Cornell University

Book Reviewer, Dr. Hang Li's *Learning to Rank for Information Retrieval and Natural Language Processing*

- Conducted proof reading and made many useful comments

Book Reviewer, Dr. Houcong Lin's *Mathematics and Computer Programming* (in Chinese)

- Conducted proof reading and made many useful comments
- Wrote the sample programs for all exercises

Student Coach, Jiangsu Olympiad in Informatics Province Team

- Taught high school students algorithms and data structure

SELECTED
HONORS

Scholarship

- **Guanghua Scholarship, First Prize (1st place)**, *Fudan Guanghua Inc.* 2012
- **Excellent Graduate Scholarship, First Prize (top 5%)**, *Fudan University* 2012
- **National Scholarship (top 1%)**, *Ministry of Education of China* 2009, 2010, 2011
- **Google Excellent Scholarship (100 in China)**, *Google Inc.* 2010
- **Chun-Tsung Scholarship (top 1%)**, *Hui-Chun Chin and Tsung-Dao Lee Chinese Undergraduate Research Endowment* 2010
- **Freshman Scholarship**, *Fudan University* 2008

Honors

- **Outstanding Teaching Assistant Award**, *Cornell University* Spring 2013
- **Best Bachelor's Thesis (top 0.5%)**, *Fudan University* 2012
- **Top 10 Excellent Graduate of Fudan (top 0.2%)**, *Fudan University* 2012
- **Excellent Chun-Tsung Scholar**, *Fudan University* 2012
- **Top Outstanding Student (top 0.2%)**, *Fudan University* 2009, 2010

Programming Contest

- **Runner-Up (2nd/60)**, *ACM-ICPC Asia Regional Kuala Lumpur Site* 2011
- **Top 100-200 Place**, *Google Code Jam* 2008, 2010, 2011
- **First Prize (3rd/1,000+)**, *TopCoder Programming Contest in East China* 2008
- **Gold Medal (11th/101)**, *ACM-ICPC Asia Regional Nanjing Site* 2007
- **Silver Medal (34th place in China)**, *China National Olympiad in Informatics* 2007

REFERENCES

Prof. Ramin Zabih

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Prof. Robert Kleinberg

Associate Professor
Department of Computer Science,
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E-mail: rdk@cs.cornell.edu

Dr. Sham Kakade

Principal Research Scientist
Microsoft Research New England
E-mail: skakade@microsoft.com

Prof. Junping Zhang

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Fudan University
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