

# Résumé of HAO YUAN

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## EDUCATIONS

- 2006 - NOW    PhD Program in Computer Science,  
Purdue University,    West Lafayette, IN, United States
- 2002 - 2006    Bachelor of Engineering in Computer Science,  
Shanghai Jiao Tong University,    Shanghai, China

## HONORS & AWARDS

### Best Student Paper Award at ISAAC 2005

( The 16th Annual International Symposium on Algorithms and Computation )

### Best Undergraduate Thesis Award

( at Department of Computer Science and Engineering, Shanghai Jiao Tong University )

( as a contestant and team leader )

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|--|-----------------------|
| The 27 <sup>th</sup> ACM International Collegiate Programming Contest - World Finals | 6 <sup>th</sup> Place |
| The ACM Asia Programming Contest - Beijing Site 2003                                 | Champion              |
| The ACM Asia Programming Contest - Beijing Site 2002                                 | Champion              |
| “AMD Tsinghua-Tongfang Cup” National Collegiate Programming Contest                  | Champion              |
| “Northern Bright Pearl Cup” National Collegiate Programming Contest                  | Champion              |
| China Mathematical Contest in Modeling (Shanghai Region)                             | Second Prize          |
| The 18 <sup>th</sup> National Olympiad in Informatics                                | Second Prize          |

## SCHOLARSHIPS

- Ross Fellowship at Purdue University  
IBM Scholarship for outstanding students in China  
Citigroup Scholarship for Finance and Information Technology  
China Merchants Bank Scholarship  
Computer World Magazine Scholarship  
Orient Overseas Container Line (OOCL) Scholarship  
Excellent Academic Scholarship ( First Class ) of Shanghai Jiao Tong University

## EMPLOYMENTS

- 2007 July - Aug,    Summer Intern @ Ortus Capital Management Limited,    Hong Kong, China
  - Quantitative Research on Optimal Execution (Liquidity Trading) Strategy in FX Market
  - Develop Information Retrieving and Processing Tools for Trading Desk
- 2005 July - Sep,    Research Intern @ Microsoft Research Asia,    Beijing, China
  - Model resource allocation problem in wireless networks;
  - Design distributed algorithms to maximize resource utilizations;
- 2005 Feb - July,    Research Intern @ Apex Data & Knowledge Management Lab,  
Shanghai Jiao Tong University,    Shanghai, China
  - Probabilistic Modeling for Collaborative Filtering;
  - Apply the probabilistic model to movie rating predictions;
  - Design model inference algorithms for large-scale data set.

## TEACHINGS

- 2008 January - 2008 April  
Teaching Assistant of ‘CS 483 Introduction to the Theory of Computation’  
Purdue University, West Lafayette, IN, United States
- 2006 August - 2006 December  
Teaching Assistant of ‘CS 590I Information Retrieval’  
Purdue University, West Lafayette, IN, United States
- 2005 September - 2006 January  
Teaching Assistant of ‘Introduction to Programming’  
Shanghai Jiao Tong University, Shanghai, China
- 2005 February - 2005 July  
Teaching Assistant of ‘Algorithm Design & Analyze II’  
Shanghai Jiao Tong University, Shanghai, China

## JOURNAL PUBLICATIONS

- Luo Si, Jamie Callan, Suleyman Cetintas and **Hao Yuan**,  
“*An effective and efficient results merging strategy for multilingual information retrieval in federated search environments*”, *Information Retrieval*, Volume 11, Number 1 / February, 2008.
- Erdong Chen, Linji Yang and **Hao Yuan**,  
“*Longest Increasing Subsequences in Windows based on Canonical Antichain Partition*”, *Theoretical Computer Science*, Volume 378, Issue 3, 9 June 2007, Pages 223-236.
- Erdong Chen, Linji Yang and **Hao Yuan**,  
“*Improved Algorithms for Largest Cardinality 2-Interval Pattern Problem*”, *Journal of Combinatorial Optimization*, Volume 13, Number 3 / April, 2007.

## CONFERENCE PUBLICATIONS

- **Hao Yuan** and Mikhail J. Atallah,  
“*Efficient Distributed Third-Party Data Authentication for Tree Hierarchies*”, to appear in *The 28th International Conference on Distributed Computing Systems (ICDCS 2008)*.
- Erdong Chen, **Hao Yuan** and Linji Yang,  
“*Longest Increasing Subsequences in Windows based on Canonical Antichain Partition*”, In Proceedings of the *16th Annual International Symposium on Algorithms and Computation*, volume 3827 of Lecture Notes in Computer Science, pages 1153-1162, Springer-Verlag, 2005. (ISAAC 2005 **Best Student Paper**).
- **Hao Yuan**, Linji Yang and Erdong Chen,  
“*Improved Algorithms for Largest Cardinality 2-Interval Pattern Problem*”, In Proceedings of the *16th Annual International Symposium on Algorithms and Computation*, volume 3827 of Lecture Notes in Computer Science, pages 412-421, Springer-Verlag, 2005.