

Xin Luna Dong

180 Park Ave.
Florham Park, NJ 07932
<http://www.research.att.com/~lunadong>

Phone: (201) 650-3494
Fax: (973) 360-8421
E-mail: lunadong@research.att.com

Research Interests

Databases, information retrieval and machine learning, with an emphasis on data integration, data cleaning, probabilistic data management, schema matching, personal information management, web search, web-service discovery and composition, Semantic Web.

Education

University of Washington 2001-2007

Ph.D., Computer Science, August 2007
Dissertation title: Providing best-effort services in Dataspace systems.
Advisor: Alon Halevy
M.S., Computer Science, November 2003

Peking University 1998-2001

M.S., Computer Science, June 2001
Graduated with **Outstanding Graduate Award**

Nankai University 1994-1998

B.S., Computer Science, June 1998
A.S., International Finance, June 1998
Graduated with **Outstanding Graduate Award**
(Granted to eight students in the university in that year)

Honors

Best Demo Award in ACM Int. Conf. on Management of Data (SIGMOD), 2005
(One of the top 3 demos in that year)

Kodak Scholarship, Kodak Corporation, 2 times: 2000, 2001
(The 1st Rank Scholarship in the department)

Computer World Scholarship, Computer World Newspaper, 1997
(Granted to one student in the department every year)

First-class Nankai Scholarship, Nankai University, 4 times: 1994-1997
(Granted to three students in the department every year)

Baogang Education Scholarship, Baogang Corporation, 1996
(Granted to ten students in the university every year)

Motorola Scholarship, Motorola Corporation, 1996
(The 1st Rank Scholarship in the university)

Research Experience

Senior Member of Technical Staff, AT&T Research

2007/10-present

Manager: Divesh Srivastava

- Researching on source selection and developing the ALEXANDER system where the goal is to select from available sources a subset of sources that together balances quality of integrated data and integration cost.
- Researching on data fusion and developing the SOLOMON system where the goal is to find the truth via copy detection. Working on automatically detecting copying between data sources by applying statistical analysis, resolving conflicts from different sources by leveraging source accuracy, copying relationships, and value similarity, and providing visualization and explanation for copy detection and truth finding results.
- Researching on record linkage where tolerance to high value variety is required, including linking business listings that belong to the same business chain, linking temporal records that describe the same entity over time, and linking records provided by different sources when errors may exist.
- Researching on update certificates in database systems to prevent erroneous updates.

Research Assistant, University of Washington

2002-2007

Advisor: Alon Halevy

- Researched on dataspace service platform and developing the SEMEX Personal Information Management System. Worked on automatically extracting instances and associations from personal information, reconciling instance references that refer to the same real-world entity, indexing loosely-coupled heterogeneous data, supporting seamless search and querying on structured and unstructured data, and visualizing heterogeneous data by applying on-the-fly schema matching.
- Designed and developed the Woogle (www.cs.washington.edu/woogle) Web-Service Search Engine to provide novel mechanisms for searching and composing web services.
- Participated in the PIAZZA peer data management project. Studied the theoretical foundation of XML query containment.

Research Intern, Google Inc.

2006-2007

Supervisor: Alon Halevy

- Studied the theoretical underpinning of probabilistic schema matching.
- Designed and developed a system that can automatically integrate a large set of heterogeneous data sources and provide ranked answers to SQL queries.

Research Intern, Microsoft Research

Summer 2005

Supervisor: Raghav Kaushik and Venkatesh Ganti

- Participated in the Data Cleaning project. Designed and implemented an algorithm that optimizes the computation of query difference.

Research Intern, Bell Labs, Lucent Technologies

Summer 2002

Supervisor: Hank Korth

- Participated in the ROLEX project. Designed and implemented an algorithm that updates XML views over relational databases.

Research Assistant, Peking University

1998-2001

Advisor: Xiao'ou Chen

- Designed and implemented an SVG webpage editor, which is integrated with the FOUNDER ARTWORLD software.

Teaching and Mentoring Experience

Supervisor, AT&T Research

- Ravali Pochampally, graduate student at University of Massachusetts, Amherst. 2012-present
 - Supervising intern project on truth discovery on probabilistic data.
- Theodoros Rekatsinas, graduate student at University of Maryland. 2012-present
 - Supervising intern project on source selection in a dynamic world.
- Anja Grunheid, graduate student at Technische Universitat Munchen. 2012-present
 - Supervising Master thesis on incremental record linkage.
- Yanyan Shen, graduate student at National University of Singapore. 2011-present
 - Supervising intern project on updating certificates for batch updates.
- Xuan Liu, graduate student at National University of Singapore. 2009-present
 - Supervising partial Ph.D. thesis on online data fusion.
- Xian Li, graduate student at State University of New York at Binghamton (SUNY). 2011-2012
 - Supervising partial Ph.D. thesis on data consistency on the Deep Web and scalable copy detection.
- Mariam Salloum, previous graduate student at University of California at Riverside. 2010-2012
 - Supervised intern project on online query answering considering source overlapping.
- Pei Li, graduate student at University of Milan-Bicocca. 2010-2012
 - Supervising Ph.D thesis on temporal record linkage and business-chain identification.
- Su Chen, graduate student at National University of Singapore. 2008-2011
 - Supervised intern project on update certificate in database systems.
- Songtao Guo, previous graduate student at University of North Carolina at Charlotte (UNCC). 2008-2009
 - Supervised intern project on record linkage and truth discovery on data provided by multiple sources.
- Daisy Zhe Wang, previous graduate student at Univ. of California at Berkeley. 2007-2009
 - Supervised project on automatically generating a multi-table mediated schema for a large number of heterogeneous data sources.
- Anish Das Sarma, previous graduate student at Stanford Univ. 2007-2008
 - Supervised project on query answering on uncertain data w. dependencies between data sources.
 - Supervised project on automatically integrating a large number of heterogeneous data sources.

Supervisor, University of Washington

2004-2006

Jing Liu, graduate student.

- Supervised qualify-exam project on answering structured queries on unstructured data.
Yuhan Cai, graduate student.
- Supervised project on browsing and querying personal information
- Mentored in the first-year-student mentoring program.
Anthony Vigil, undergraduate student.
- Supervised project on ranking objects in an association network.
Colin Pop, undergraduate student.
- Supervised project on extracting objects and associations from personal information.
Dinh Lam, undergraduate student.
- Supervised independent-study project on automatically trying web services.

Teaching Assistant, University of Washington 2001-2003

- CSE444, Introduction to Database Systems.
- Facilitated in designing a new Database course (see [Halevy, SIGMOD Record 32(3), 2003])
- CSE373, Data Structures and Algorithms

Mentor, Making Connection Program, University of Washington 2001-2003

Mentored two high-school female students

Co-instructor, Founder Computer Science & Technology Institute 2001

Taught XML to employees in the Founder Institute

Teaching Assistant, Peking University 2000

Graduate Course: Digital Image Processing

Professional Activities and Services

PC co-chair or symposium co-chair: Sigmod/PODS Ph.D. Symposium 2012/2013, Sigmod New Researcher Symposium 2012/2013, Workshop of Integrating Big data in the DIMACS workshop series, Int. Workshop on Quality of Databases (QDB) 2012, WebDB 2010, Int. Conf. on Semantics Knowledge and Grid (SKG) 2009.

Conference track chair: ICDE 2013, CIKM 2011.

Conference reviewer: VLDB 2013, EDBT 2013 Industry track, VLDB 2012, Sigmod 2012, EDBT 2012 Industry track, WAIM 2011, AMW 2011, Sigmod 2011, VLDB 2011, VLDB Demo 2010, WWW 2010, NTII 2010, ICDE 2010, CIKM 2009, WebDB 2009, VLDB 2009, WIDM 2008, CIKM 2008, WebDB 2008, VLDB 2008, WWW 2008.

Conference external reviewer: CIDR 2007, AAAI 2005, WWW 2005, SIGMOD 2005, CIDR 2005, VLDB 2004.

Journal Associate editor: IEEE Data Engineering Bulletin, Special issue on “Towards Quality Data with Fusion and Cleaning”, 9/2011.

Journal referee: Journal of Data Management Research (Proceedings of VLDB Endowment), The International Journal on Very Large Data Bases (VLDB Journal), ACM Transactions on Database Systems (TODS), Theoretical Computer Science (TCS), ACM Transactions on Internet Technology Journal (TOIT), Transactions on Information Systems (TOIS), Data

Mining and Knowledge Discovery Journal, Transactions on Knowledge and Data Engineering (TKDE), Information System (IS).

Proposal reviewer: Review for NSF in 2011, for Research Resources (NCRR) and National Institutes of health (NIH) in 2008.

Scribe, NSF Personal Information Management Workshop, 2005

Member, Graduate Student Admission Committee, CSE Department, Univ. of Washington, 2004

Volunteer, International Youth Summit, 2000

Vice president, Departmental Student Union, CSE Department, Nankai University, 1995-1997

Publications

Book Chapters

Xin Dong, Laure Berti-Equille, and Divesh Srivastava: Data Fusion: Resolving Conflicts from Multiple Sources. In “Managing and Mining Uncertain Data.” *Springer*, to appear.

Anish Das Sarma, Xin Luna Dong, and Alon Halevy: Uncertainty in Data Integration and Dataspace Support Platforms. In “Advances in Schema Matching and Mapping.” *Springer*, 2011.

Anish Das Sarma, Xin Luna Dong, and Alon Halevy: Data Modeling in Dataspace Support Platforms. In “Conceptual Modeling: Foundations and Applications.” *Springer*, 2009.

Xin Luna Dong and Divesh Srivastava: XML Indexing. In “Encyclopedia of Database Systems.” *Springer*, 2009.

Anish Das Sarma, Xin Dong, and Alon Halevy: Uncertainty in Data Integration. In “Managing and Mining Uncertain Data.” *Springer*, 2008.

Tiziana Catarci, Xin Dong, Alon Halevy and Antonella Poggio: Structure everything. In “Personal Information Management.” *University of Washington Press*, Oct 2007.

Xin Dong: Chpt 1. The origin of XML. Chap 2. XML grammar. In “Step by Step to XML.” *Tsinghua Publication House*, March 2001. (In Chinese)

Publications on Databases

Refereed Conference Papers

Xin Luna Dong, Barna Saha and Divesh Srivastava: Less is More: Selecting Sources Wisely for Integration. In *PVLDB*, 2013.

Xian Li, Xin Luna Dong, Kenneth Lyons, Weiyi Meng and Divesh Srivastava: Truth Finding on Deep Web: Is the Problem Solved. In *PVLDB*, 2013.

Pei Li, Xin Luna Dong, Andrea Maurino and Divesh Srivastava: Linking Temporal Records. In *Int. Conf. on Very Large Data Bases (VLDB)*, pages 956-967, 2011.

Xuan Liu, Xin Luna Dong, Beng Chin Ooi and Divesh Srivastava: Online Data Fusion. In *Int. Conf. on Very Large Data Bases (VLDB)*, pages 932-943, 2011.

Su Chen, Xin Luna Dong, Laks V. S. Lakshmanan and Divesh Srivastava: We challenge you to certify your updates. In *Int. Conf. on Management of Data (SIGMOD)*, pages 481-492, 2011.

Anish Das Sarma, Xin Luna Dong and Alon Y. Halevy: Data integration with dependent sources. In *Int. Conf. on Extending Database Technology (EDBT)*, pages 401-412, 2011.

Xin Dong, Laure Berti-Equille, Yifan Hu and Divesh Srivastava: Global Detection of Complex Copying Relationships Between Sources. In *Int. Conf. on Very Large Data Bases (VLDB)*, pages 1358-1369, 2010.

Songtao Guo, Xin Dong, Divesh Srivastava and Remi Zajac: Record Linkage with Uniqueness Constraints and Erroneous Values. In *Int. Conf. on Very Large Data Bases (VLDB)*, pages 417-428, 2010.

Xin Luna Dong, Laure Berti-Equille and Divesh Srivastava: Integrating Conflicting Data: The Role of Source Dependence. In *Int. Conf. on Very Large Data Bases (VLDB)*, pages 550-561, 2009.

Xin Luna Dong, Laure Berti-Equille and Divesh Srivastava: Truth Discovery and Copying Detection in a Dynamic World. In *Int. Conf. on Very Large Data Bases (VLDB)*, pages 562-573, 2009.

Laure Berti-Equille, Anish Das Sarma, Xin Dong, Amelie Marian and Divesh Srivastava: Sailing the Information Ocean with Awareness of Currents: Discovery and Application of Source Dependence. In *the 4th Conf. on Innovative Data Systems Research (CIDR)*, 2009.

Anish Das Sarma, Xin Dong and Alon Y. Halevy: Bootstrapping pay-as-you-go data integration systems. In *ACM Int. Conf. on Management of Data (SIGMOD)*, pages 861-874, 2008.

Xin Dong, Alon Y. Halevy and Cong Yu: Probabilistic schema matching. In *the 33rd Int. Conf. on Very Large Data Bases (VLDB)*, pages 687-698, 2007.

Michael Cammarano, Xin Dong, Bryan Chan, Jeff Klingner, Joel Galenson, Alon Y. Halevy and Pat Haranhan: Visualization of heterogeneous data. In *IEEE InfoVis*, 2007.

Xin Dong and Alon Y. Halevy: Indexing Dataspaces. In *ACM Int. Conf. on Management of Data (SIGMOD)*, 2007. *Acceptance rate: 14.4%*.

Jayant Madhavan, Shawn R. Jeffery, Shirley Cohen, Xin Dong, David Ko, Cong Yu and Alon Y. Halevy: Web-scale data integration: You can only afford to pay as you go. In *the 3rd Conf. on Innovative Data Systems Research (CIDR)*, pages 342-350, 2007.

Xin Dong, Alon Y. Halevy and Jayant Madhavan: Reference reconciliation in complex information spaces. In *ACM Int. Conf. on Management of Data (SIGMOD)*, pages 85-96, 2005.

Xin Dong and Alon Y. Halevy: A platform for personal information management and integration. In *the 2nd Conf. on Innovative Data Systems Research (CIDR)*, pages 119-130, 2005.

Xin Dong, Alon Y. Halevy, Jayant Madhavan, Ema Nemes and Jun Zhang: Similarity search for web services. In *the 30th Int. Conf. on Very Large Data Bases (VLDB)*, pages 372-383, 2004.

Xin Dong, Alon Y. Halevy and Igor Tatarinov: Containment of nested XML queries. In *the 30th Int. Conf. on Very Large Data Bases (VLDB)*, pages 132-143, 2004.

Tutorials

Xin Luna Dong and Divesh Srivastava: Big Data Integration. In *Int. Conf. on Data Engineering (ICDE)*, 2013.

Xin Luna Dong and Divesh Srivastava: Detecting Clones, Copying and Reuse on the Web. In *Int. Conf. on Data Engineering (ICDE)*, 2012.

Xin Luna Dong and Divesh Srivastava: Detecting Clones, Copying and Reuse on the Web. In *Int. Conf. on Database Systems for Advanced Applications (DASFAA)*, 2012.

Xin Luna Dong and Divesh Srivastava: Large-scale copy detection. In *ACM Int. Conf. on Management of Data (SIGMOD)*, 2011.

Xin Luna Dong and Felix Naumann: Data fusion - Resolving Data Conflicts for Integration. In *Int. Conf. on Very Large Data Bases (VLDB)*, 2009.

Invited Journal Articles

Pei Li, Xin Luna Dong, Andrea Maurino and Divesh Srivastava: Linking Temporal Records. *Frontier Computer Science*, 2012.

Xin Dong, Alon Y. Halevy and Cong Yu: Probabilistic schema matching. *The International Journal on Very Large Data Bases (VLDBJ)*, the **Special Issue of VLDB Journal “Best Papers of VLDB 2007”**, 5(10), 2008.

Jayant Madhavan, Shirley Cohen, Xin Dong, Alon Y. Halevy, Shawn Jeffery, David Ko and Cong Yu: Structured data meets the Web: A few observations. *Bulletin of the IEEE Computer Society Technical Committee on Data Engineering*, 29(4): 19-26, 2006.

Xin Dong, Jayant Madhavan and Alon Y. Halevy: Mining structures for semantics. *SIGKDD Explorations*, 6(2):53-60, 2004.

Igor Tatarinov, Zachary G. Ives, Jayant Madhavan, Alon Y. Halevy, Dan Suciu, Nilesh N. Dalvi, Xin Dong, Yana Kadiyska, Gerome Miklau and Peter Mork: The Piazza peer data management project. *SIGMOD Record* 32(3): 47-52, 2003.

Conference Demos

Pei Li, Haidong Wang, Christina Tziviskou, Xin Luna Dong, Xiaoguang Liu, Andrea Maurino and Divesh Srivastava: CHRONOS: Facilitating History Discovery by Linking Temporal Records. In *Int. Conf. on Very Large Data Bases (VLDB)*, 2012.

Xin Dong, Laure Berti-Equille, Yifan Hu and Divesh Srivastava: SOLOMON: Seeking the Truth Via Copying Detection. In *Int. Conf. on Very Large Data Bases (VLDB)*, pages 1617-1620, 2010.

Yuhan Cai, Xin Dong, Alon Y. Halevy, Jing Liu and Jayant Madhavan: Personal information management with SEMEX. In *ACM Int. Conf. on Management of Data (SIGMOD)*, pages 921-923, 2005. (**BEST DEMO**, one of the top 3 demos)

Philip Bohannon, Xin Dong, Sumit Ganguly, Henry F. Korth, Chengkai Li, P. P. S. Narayan and Pradeep Shenoy: ROLEX: Relational on-line exchange with XML. In *ACM Int. Conf. on Management of Data (SIGMOD)*, page 673, 2002.

Refereed Workshop Papers

Daisy Zhe Wang, Xin Luna Dong, Anish Das Sarma, Michael J. Franklin and Alon Y. Halevy: Functional Dependency Generation and Applications in Pay-As-You-Go Data Integration System. In *the Int. Workshop on the Web and Databases (WebDB)*, 2009

Jing Liu, Xin Dong and Alon Y. Halevy: Answering structured queries on unstructured data. In *the Int. Workshop on the Web and Databases (WebDB)*, pages 25-30, 2006.

Xin Dong: A Platform for personal information management and integration. In *the VLDB 2005 PhD Workshop*, pages 26-30, 2005.

Xin Dong and Alon Y. Halevy: Malleable schemas: A preliminary report. In *the Int. Workshop on the Web and Databases (WebDB)*, pages 139-144, 2006.

Xin Dong, Alon Y. Halevy, Ema Nemes, Stephan B. Sigurdsson and Pedro Domingos: SEMEX: Mining for personal information integration. In *Workshop on Mining for and from the Semantic Web (MSW)*, pages 58-63, 2004.

Xin Dong, Alon Y. Halevy, Ema Nemes, Stephan B. Sigurdsson and Pedro Domingos: SEMEX: Toward on-the-fly personal information integration. In *Workshop on Information Integration on the Web (IIWEB)*, 2004.

Publications on Graphics and Image Processing

Xin Dong and Xiao’ou Chen. Automatic improvement of color-image quality oriented to webpage browsing. *Journal of Computer Assisting Design and Graphics*, 2002. (In Chinese)

Xin Dong, Xiao’ou Chen and Yuqian Wu. The research and implementation of an SVG-based

webpage design system. In *National Conference on Multi-Media Technology*, China, October 2001. (In Chinese)

Xin Dong and Xiao'ou Chen. Choosing the best markup languages for homepages. *Journal of Computer Applications*, 2001. (In Chinese)

Zhong Wang, Xin Dong and Xiao'ou Chen. SVG—A new language specification supporting scalable vector graphics for web browsing. *Journal of Image and Graphics*, December 2000. (In Chinese)

Xin Dong and Xiao'ou Chen. The display and browsing of XML files. *Journal of Computer Applications*, August 2000. (In Chinese)

Xin Dong. The kernel technique in building a WWW webpage system. In *Int. Computer Network and Application Forum*, 1998. (In Chinese)

Xin Dong. Building a WWW server with IIS. In *Int. Computer Network and Application Forum*, 1998. (In Chinese)

Talks

“Truth Finding on the Deep Web.”

- Machine learning group, Princeton, NJ, Nov 2012
- Database group, MIT, MA, Oct 2012
- Computer Science Dept, University of Massachusetts, Amherst, MA, Oct 2012
- Database group, Brown University, RH, Oct 2012
- Database group, Columbia University, NY, Oct, 2012
- Qatar Computing Research Institute, Doha, Qatar, June, 2012.
- AT&T Labs Cookie talk, Florham Park, NJ, May 2011.
- Computer Science Dept, Hongkong University of Science and Technology, Hongkong, China, April 2012.

“Develop Your Big Ideas.”

- New-researcher symposium, Sigmod, Athens, Greece, June 2011.

“Solomon: Seeking the Truth Via Copying Detection.”

- Computer Science Dept, Tianjin University of Technology, Tianjin, China, January 2012.
- Computer Science Dept, Univ. of Washington, WA, August 2011.
- Microsoft Research, WA, August 2011.
- BEWEB invited talk, Uppsala, Sweden, March 2011.
- Computer Science Dept, SUNY Binghamton, NY, March 2011.
- QDB keynote talk, Singapore, September 2010.
- AT&T Labs Cookie talk, Florham Park, NJ, August 2010.

“Data Fusion--Resolving Data Conflicts for Integration.”

- NDBC tutorial, Nanchang, China, October 2009.
- Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China, September 2009.

“Sailing the Information Ocean with Awareness of Currents: Discovery and Application of Source Dependence.”

- Invited talk at Person Validation and Entity Resolution Conference, US Census Bureau, May 2011.

- Invited talk at ISAT “What’s Data Worth?” Workshop, February 2010.
 - Database group, UC Irvine, CA, February 2010.
 - NDBC invited talk, Nanchang, China, October 2009.
 - SKG tutorial, Zhuhai, China, October 2009.
 - Microsoft Research at Asia, Beijing, China, September 2009.
 - AT&T Labs Cookie talk, Florham Park NJ, July 2009.
- “Data Integration with Uncertainty.”
- SKG panal talk, Zhuhai, China, October 2009.
 - Database group, Renmin University, Beijing, China, September 2009.
 - Computer Science Dept, New Jersey's Science & Technology University, Newark, NJ, February 2009.
 - Database Group, University of Pennsylvania, Philadelphia, PA, November 2008.
 - Computer Science Dept, Stevens Institute of Technology, Hoboken, NJ, September 2008.
 - AT&T Labs Cookie talk, Florham Park, NJ, May 2008.
- “Managing a Space of Heterogeneous Data.”
- Database Group, Renmin University, Beijing, China, June 2007.
 - Database Group, University of Wisconsin, Madison WI, February 2007.
- “Semex: A platform for personal information management and integration.”
- Adaptive System & Interaction Core Group, Microsoft Research, Seattle, WA, November 2005.
 - Microsoft Research at Asia, Beijing, China, June 2005.

Patents

“Method and Apparatus for Exploring and Selecting Data Sources,” Xin Dong and Divesh Srivastava, United States Patent, filed 12/2011, to be issued.

“Online Data Fusion,” Xuan Liu, Xin Dong, Ben Chin Ooi and Divesh Srivastava, United States Patent, filed 12/2011, to be issued.

“Update Certificates,” Su Chen, Xin Dong, Laks Lakshmana and Divesh Srivastava, United States Patent, filed 9/2010, to be issued.

“Detecting Dependence Between Sources in Truth Discovery,” Xin Dong, Laure Berti-Equille and Divesh Srivastava. United States Patent 8190546, issued 5/29/2012.

“Minimal difference query and view matching,” Raghav Kaushik, Venkatesh Ganti and Xin Dong. United States Patent 7251646, issued 7/31/2007.

“Method and apparatus for updating XML views of relational data,” Philip L. Bohannon, Xin Dong, Henry F. Korth and Suryanarayan Perinkulam. United States Patent 20050165866, filed Jan 28, 2004, to be issued.

Contest Awards

Prize in Programming and Algorithm Contests

One of the three team members representing Nankai University at *ACM 21st Int. Collegiate Programming Contest*, ranked the 12th in the Asian Region, 1996

Second prize in *Tianjin Programming Contest for Undergraduate students*, 2 times: 1995, 1996

Bronze medal in *National Informatics Olympic Games for High School Students (NOI)*, 1992

First prize in *Tianjin Programming Contest for High School Students*, 5 times: 1990-1994

Prize in Mathematics Contests

Second prize in *National Mathematics Competition for Senior High-School Students*, 1993

First prize in *National Mathematics Competition for Junior High-School Students*, 1991

Full score in *the 5th/6th American Mathematics Invitational Contests*, 2 times: 1989, 1990

Title of **Excellent Female Youth** in *American Test of Mathematics Ability*, 1989

Third prize in *National LuogengHua Golden-Cup Mathematics Invitational Contests*, 1989

Second prize in *Tianjin "I Love Math" Mathematics Competition for Elementary-School Students*, 1987

Personal Information

Citizen: People's Republic of China

Permanent resident: United States

Language: Fluent in English and Chinese Mandarin, know Chinese Cantonese, Korean, Japanese, French, Greek