

## Curriculum Vitae

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### Education

- **Ph.D. in Computer Science** Florida International University, FL 2003
- **M.E. in Computer Science** Sichuan University, Sichuan, China
- **B.E. in Computer Science** Sichuan University, Sichuan, China

### Employment History

University of West Georgia, GA	Professor	Aug. 2018 – present
University of West Georgia, GA	Associate Professor	Aug. 2008 – Jul. 2018
University of West Georgia, GA	Assistant Professor	Aug. 2003 – Jul. 2008
Florida International University, FL	Graduate Teaching and Research Assistant	<b>Aug. 1998 – April 2003</b>

### Teaching Experience

**University of West Georgia, GA** **Aug. 2003 – present**

- CS1020 Computers and Society
- CS1030 Introduction to Computer Concepts
- CS1300 Introduction to Computer Science
- CS1301 Computer Science I
- CS1302 Computer Science II
- CS3230 Information Management
- CS4220 Operating Systems
- CS4225 Parallel and Distributed Systems
- CS4980 Web Development and Design
- CS4982 Computing Capstone
- CS4985/CS6985 Special Topics: XML and Advanced Web Technologies
- CS4985/CS6985 Special Topics: Advanced Web Technology with Angular
- CS4985/CS6985 Special Topics: Application Development Using Filemaker Pro
- CS4985 Special Topics: Advanced Web Technologies with Angular
- CS6221 Operating Systems I
- CS6222 Operating Systems II
- CS6231 Database Systems I (face-to-face and online)
- CS6232 Database Systems II (face-to-face and online)
- CS6311 Program Constructions I (face-to-face)
- CS6920 Project II

**Florida International University** **Graduate Teaching Assistant** **Aug. 1998 – April 2003**

- Introduction to Microcomputers
- Introduction to Microcomputer Applications for Business

- Database Management (Guest Lecturer) Nov. 2000

## **Research Interests**

Computer Science Education, Computer Security, and Database Systems.

## **Research Experience**

### **High-Performance Database Research Center (HPDRC), School of Computer Science, Florida International University, FL**

*Graduate Research Assistant*

*Aug. 1998 – April 2003*

- XML Storage and Retrieval Using the Semantic Binary Object-Oriented Database (Sem-ODB)
- Semantic Wrapper
- Semantic Access
- WebRG, Web-SQL and Sem-Access

### **Sichuan University, China**

*Graduate Research Assistant*

- Design and implementation of the Commercial Intranet Information System of Chengdu. (Master's thesis project).
- Design, implementation and maintenance of the Blood Management Information System for the Chengdu Blood Center, China.

## **Service to UWG**

### **University-Level**

- UWG Faculty Senate Student Affairs and Intercollegiate Activities Committee (SAIA), CS program, 2023-2026.
- UWG Faculty Senate (sitting in for Anja Remshagen), CS representative, Fall 2015.
- UWG Faculty Senate Graduate Program Committee (sitting in for Anja Remshagen), Member, Fall 2015.
- Graduation Commencement, CS representative, annually except for 2014, 2016.
- Visitation/Preview Day, CS representative, Spring 2004, Fall 2005, Spring 2006, Spring 2008, Spring 2009, Fall 2010, Spring 2012, Fall 2012, Fall 2013, Spring 2015.
- Faculty & Administrative Staff Personnel Committee of the Faculty, Member, 2006-2008.
- UWG Excel Center Advisor, 2004- 2005.
- Festival of Majors, CS representative, spring 2004.

### **College-Level**

- CACSI Faculty Advisory Committee, Member, 2022-2024.
- CACSI Executive Committee, Member, 2019-2021.
- CACSI Promotion and Tenure Committee, Member, 2020-2021.
- CACSI Preview Day CS Representative, January 2021.
- COSM Executive Committee, Member, 2019-2020.
- COSM Promotion and Tenure Committee, Chair, 2016-2017.
- COSM Promotion and Tenure Committee, Member, 2014-2015.
- COSM Advisory Committee, Member, 2013- 2014.
- COSM Technology Fee Committee, Member, 2012- 2014.
- COSM Curriculum Committee, Member, 2011-2012, 2015-2018.

## **Department-Level**

- CAM By-law Ad-hoc Committee, Spring 2022.
- CS Program Student Award Committee, 2022.
- CS Promotion and Tenure Committee, Chair, 2020.
- CS Post-Tenure Review Advisory Committee, Chair, 2020.
- CS Graduate Admission Committee, Member, 2019-present.
- CS Undergraduate Curriculum Committee, Member, 2004-present.
- CS Graduate Curriculum Committee, Member, 2004-present.
- CS1 and CS2 Curriculum Committee, Member, 2004-2005, 2010-2011, 2014-2021.
- CS Faculty Evaluation Committee, Member, 2008-2010, 2014-present.
- CS0 Curriculum Committee, Member, 2005.
- CS Undergraduate Curriculum Committee, Chair, 2003-2004.
- CS Search and Selection Committee, Member, 2004-2005, 2021.
- CS Service Course Committee, Member, 2003-2008.

## **Other Services**

- Community summer tennis camp, volunteer, June 2023.
- UWG Hackathon: Coding for a Better Community, Timer, April 2023.
- UWG Hackathon: Coding for a Better Community, Advanced Track Judge, April 2022.
- Chinese teacher for 5-8 years old kids in Peachtree City, GA, December 2016.
- Douglas County Stingrays Candy Cane Swim Meet, Volunteer, 2013.
- Provided technical assistance to a local business owner (Plates on the Square & Uncorked) by answering his questions on database design, Fall 2012.
- Prepared and conducted outreach activities with students and faculty (Anja Remshagen and Chris Rolka) at the Neva Lomason Memorial Library, Carrollton, April 2012.
- Grace Hopper Celebration of Women in Computing, Volunteer, Atlanta, GA, September 2010.

## **Publications and Technical Reports**

### **Journal Publications**

- L. Yang, L. Cao, “The Effect of MySQL Workbench in Teaching Entity-Relationship Diagram (ERD) to Relational Schema Mapping”, International Journal of Modern Education and Computer Science (IJMECS), Vol. 8, No. 7, PP.1-12, Pub. Date: 2016-7-8, DOI: 10.5815/ijmecs.2016.07.0.

### **Conference Publications and Presentations**

- C. Williams, L. Yang, “A Flexible Google Forms Response Automation System”, Poster at UWG Scholars' Day Undergraduate Research Conference, UWG, April 4, 2023.
- L. Yang, “A Cross-Discipline Capstone Project Experience”, Proceedings of the 18<sup>th</sup> International Conference on Frontiers in Education: Computer Science & Computer Engineering, Las Vegas, NV, July 2022.
- L. Yang, L. Cao, “A Study on the Effect of Visualization in Teaching Entity-Relationship Diagram (ERD) to Relational Schema Mapping”, presentation at the 9th annual International Conference on Education and New Learning Technologies (EDULEARN 17), Barcelona, Spain, July 2017.
- A. Remshagen, L. Yang, “Consistency Checking in Access Control”, poster paper in Proceedings of the Fourth ACM Conference on Data and Application Security and Privacy, ACM CODASPY 2014, pp. 139-141, San Antonio, TX, March 2014.

- L. Yang, T. Tynes, “A User-Centric Privacy-Aware Protection System”, Proceedings of the 2013 International Conference on Security and Management, pp. 147-152, Las Vegas, NV, July 2013.
- J. Allen, A. Remshagen, L. Yang, B. Burgey, R. Copeland, B. Johnson, S. Small, “Can Virtual Worlds bring a ‘Second Life’ to CS Education?”, Richard Tapia Celebration of Diversity in Computing Conference 2009 (Tapia 2009), Birds-of-a-Feather (BOF) Session, Portland, OR, September 2009.
- L. Yang, “Teaching Network and System Administration Using Virtual PC”, in Journal of Computing Sciences in Colleges, Volume 23, Issue 2, pp. 137-142, December 2007.
- L. Yang, N. Rishe, “Formal Representation and Transformation of DTDs to Sem-ODM Semantic Schemas”, Proceedings of the 2006 International Conference on Foundations of Computer Science, pp. 182-188, Las Vegas, NV, June 2006.
- A. Remshagen, L. Yang, S. Miller, “Widening the Pipeline for all Minority Students”, Richard Tapia Celebration of Diversity in Computing Conference 2005 (Tapia 2005), Birds-of-a-Feather (BOF) Session, Albuquerque, NM, October 2005.
- L. Yang, N. Rishe, “Transforming Sem-ODM Semantic Schemas to DTDs”, ACMSE 2005, pp.237-242 (Vol.1), Kennesaw, GA, March 2005.
- L. Yang, N. Rishe, “A Flexible and Effective XML Storage and Retrieval System”, Proceedings of the IEEE Six International Symposium on Multimedia Software Engineering, pp. 227-230, Miami, FL, December 2004.
- L. Yang, N. Rishe, “XQuery Translation to Sem-SQL”, Proceedings of the 2004 International Conference on Information and Knowledge Engineering, pp.185-191, Las Vegas, NV, June 2004.
- Li Yang, Naphtali Rishe, Maxim Chekmasov, Scott Graham Yanli Sun, and I. de Felipe, “XML Schema Modeling Using Sem-ODM”, Proceedings of the Ninth International Conference on Distributed Multimedia Systems, pp. 187-192, Miami, FL, September 2003.
- Naphtali Rishe, Li Yang, Maxim Chekmasov, Marina Chekmasova, Scott Graham, Alejandro Roque, “Mapping from XML DTD to Semantic Schema”, Proceedings of SCI 2002, Vol. 7, pp. 450-455, Orlando, FL, July 2002.
- Naphtali Rishe, Tao Huang, Maxim Chekmasov, Scott Graham, Li Yang, Sheldon Himmelsbach, “Semantic Wrapping Tool for the Internet”, Proceedings of SCI 2002, Vol. 7, pp. 441-445, Orlando, FL, July 2002.
- Li Yang, Naphtali Rishe, Jun Yuan, M. Chekmasov, L. Pachas, A. Mendoza. “XMLWrapper: Storing and Retrieving XML Documents Using the Semantic Binary Object-Oriented Database (Sem-ODB)”, Proceedings of SCI 2001, Vol. 1, pp. 82-87, Orlando, FL, July 2001.

### **Dissertation and Technical Reports**

- Dissertation: XML Storage and Retrieval Using the Semantic Binary Object-Oriented Database (Sem-ODB), Florida International University, April 2003.
- Li Yang, Jun Yuan, “Semantic Wrapper and its Application in Semantic Access”, Internal Technical Report, High-Performance Database Research Center, School of Computer Science, Florida International University, December 2000.

### **Internal Grants**

- Li Yang, UWG Student Research Assistant Program Grant (SRAP) (\$1550), “A Flexible Google Forms Response Automation System”, 2023-2024.
- Li Yang, UWG Student Research Assistant Program Grant (SRAP) (\$1720), “A Flexible Google Forms Response Automation System”, 2022-2023.
- With Mary Hooper, UWG Student Research Assistant Program Grant (SRAP) (\$1475), “Upgrade and Migration of the ULead 360° Online Administration and Reporting System”, 2016-2017.
- With Mary Hooper, UWG Student Research Assistant Program (SRAP) (\$900), “Development of the ULead 360° Online Administration Reporting System”, 2015-2016.

- With Li Cao, UWG UWide (FY15) Mini-grant (\$4380), “The Effectiveness of Technology-Enhanced Tools in Students' Understanding of ERD (Entry-Relationship Diagram) to Relational Schema Mapping”, 2014-2015.
- With Mary Hooper, UWG Student Research Assistant Program (SRAP) (\$1500), “Development of the ULead 360° Online Administration Reporting System”, 2014-2015.
- UWG UWide (FY14) Mini-grant (\$2500), “The Effectiveness of Technology-Enhanced Tools in Students' Understanding of ERD (Entry-relationship diagram) to relational schema mapping”, 2013-2014.
- ULead West Georgia Online Assessment Program Development, spring 2013 – summer 2014.
- With Anja Remshagen, Christine Rolka, UWG Student Research Assistant Program (SRAP) (\$2100), “Road to Computing”, 2011-2012.
- UWG Student Research Assistant Program (SRAP) (\$2100), “XML Data Security and Privacy Control in a Distributed Environment”, 2009-2010.
- UWG Student Research Assistant Program (SRAP) (\$2100), “XML Data Security and Privacy Control” (renewal), 2008-2009.
- UWG RPG (Retention, Progression, and Graduation Initiative) grant (\$1400), “Virtual Worlds”, with Dr. Anja Remshagen, Spring 2008.
- UWG Student Research Assistant Program (SRAP) (\$2100), “XML Data Security and Privacy Control”, 2007-2008.
- UWG Faculty Research Grant (\$1500), “Narrowing the Gender Gap in CS”, with Dr. Anja Remshagen, July 1, 2004—June 30, 2005.
- UWG 2004 Spring Laptop Giveaway, “Utilizing Web-based Technologies in Teaching CS 4220 Operating Systems”.

### **Software Development**

- Project faculty supervisor along with Dr. Jonathan Corley, Steven Knight (student), Corey Williams (student), partner with Sharpen Minds to develop a software product on improving mental health, since April 2023.
- Project faculty supervisor along with Amanda Russell (student), Michael Odom (student), and Jonah Nestruck (student) upgraded and maintained ULead 360 Online Assessment System, Fall 2013 – Summer 2018.
- Project faculty supervisor along with Patrick Negrutiu (student), Jose Sanchez (student), designed, developed and deployed ULead 360 Online Assessment System, an online tool to assess the development and progress of leadership skills of educational leaders, Spring 2013 – Summer, 2013.

### **Student Research Supervised**

- Bryson Frederick, “A Flexible Google Forms Response Automation System”, 2023-2024.
- Corey Williams, “A Flexible Google Forms Response Automation System”, 2022-2023.
- Jonah Nestruck, “Upgrade and Migration of the ULead 360° Online Administration and Reporting System”, 2015 - 2017.
- Michael Odom, “Development of the ULead 360° Online Administration Reporting System”, 2014-2015.
- Amanda Russell, “ULead West Georgia Online Assessment Program Development”, 2013 –2014.
- Patrick Negrutiu (Spring 2013 – Fall 2013) and Jose Sanchez (Spring 2013 – Summer 2013), “ULead West Georgia Online Assessment Program Development”.
  - Work resulted in a fully functional web application, ULead 360 Online Assessment, that has been used by Dr. Mary Hooper from Dept. of Educational Leadership and Instruction since the summer of 2013.

- Travis Tynes, “XML Data Security and Privacy Control”, 2007-2009. The research resulted in
  - Conference paper (L. Yang, T. Tynes, “A User-Centric Privacy-Aware Protection System”, Proceedings of the 2013 International Conference on Security and Management, pp. 147-152, July 2013).
  - Presentation at the UWG Research Day Science Event in March 2008.

### **Professional Memberships**

- Member of Upsilon Pi Epsilon (International Honor Society in the Computing and Information Disciplines) since 2004.

### **Awards**

- Outstanding graduate teacher of the year, voted by CS students, UWG, 2005-2006, 2019-2020, 2022-2023.
- Outstanding undergraduate teacher of the year, voted by CS students, UWG, 2016-2017.
- Graduate Fellowship, High Performance Database Research Center (HPDRC), Florida International University, 2000-2002.