

## FACULTY VITAE

1. Name: Li Yang

2. Education

Degree	Discipline	Institution	Year
B.A.	Finance	Jilin University	1997
M.A.	Finance	Jilin University	2000
M.S.	Computer Science	Florida International University	2003
Ph.D.	Computer Science	Florida International University	2005

3. Academic experience

University of Tennessee at Chattanooga	Assistant Professor	2005 - 2009	FT
University of Tennessee at Chattanooga	Associate Professor	2009 - 2014	FT
University of Tennessee at Chattanooga	Professor	2014-present	FT

4. Non-academic experience

Organization	Title	Duties	Dates	FT/PT
N/A				

5. Certifications or professional registrations

N/A

6. Membership in professional organization

- Association for Computing Machinery
- Special Interest Group on Computer Science Education
- Upsilon Pi Epsilon

7. Honors and awards

- Research Award from the College of Engineering and Computer Science, University of Tennessee at Chattanooga (UTC), TN, 2007, 2010, 2013, 2014
- Exceptional Merit Faculty, University of Tennessee at Chattanooga, TN, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014.

- Excellent PhD. graduate student awards in SCS, FIU, Miami, FL, 2004 - 2005
  - NIH, National Institute of Biomedical Imaging and Bioengineering, mStroke: Mobile Technology for Post-stroke Recurrence Prevention and Recovery (with Mina Sartipi as PI, and Nancy Fell), \$384,747, awarded, 2014/05-2017/04.
  - NSF SaTC, EDU: Collaborative: Bolstering Security Education through Transiting Research into Browser Security (with Wenliang Du at Syracuse University as lead-PI and Xiaohong Yuan at NC A&T SU as PI), #1318439, PI, \$119,869, awarded, 2013/09 - 2015/08.
  - NSF S-STEM, Making Opportunities for Computer Science and Computer Engineering Students (MOCS) (with Joseph Kizza, Jack Thompson, Kathy Winters, Mina Sartipi), #1259873, PI, recommended, 2013-2018.
  - NSF SFS, Capacity Building in Mobile Security Through Curriculum and Faculty Development (with Joseph Kizza, Kai Qian, Prabir Bhattacharya and Fan Wu), #1241651, Lead-PI, awarded, 2012-2015.
  - NSF SFS, Collaborative Project: Developing Faculty Expertise in Information Assurance through Case Studies and Hands-on Experiences (with Xiaohong Yuan from NC A&T SU, Bill Chu from UNC Charlotte, Joseph Kizza and Kathy Winters from UTC), #1129444, PI, awarded, 2011-2013.
  - A Novel Authentication Framework in Mobile Devices, Tennessee Higher Education Commission's Center of Excellence in Applied Computational Science and Engineering, PI, awarded, 2012-2013.
  - NSF CCLI Type 1, Collaborative Project: Teaching Cryptography through Hand-on Learning and Case Studies, #0942581, Lead-PI, \$99,985, awarded, 2010-2013. Resources.
8. Service activities
- Serve as the Graduate Program Coordinator, 2008 - Present
  - Chair Graduate Curriculum Committee, 2011 - Present.
  - Serve on Graduate Council, 2008-Present.
  - Serve on the University Institutional Review Board, 2008 - Present
  - Serve on CPSC Curriculum Committee, 2005 - present
  - Paper Reviewer of CISSE conference 2011, 2012
  - Serve on NSF Panel for Computer System Research, Small-Computing and Distributed Systems, 2012
9. Publications and presentation from past five years

### **Journals and Book Chapters**

- Prabir Bhattacharya, Li Yang, Minzhe Guo, Kai Qian, Ming Yang, Learning Mobile Security with Labware, Education column, IEEE Security and Privacy Magazine: Vol 12 No. 1, 2014.
- Wu He, Xiaohong Yuan, Li Yang, Supporting Case-based Learning in Information Security with Web-based Technology, Journal of Information Systems Education (JISE) Special Issue: Global Information Security and Assurance, Volume 24, Number 1, Spring 2013.
- Joseph Kizza, Li Yang, Social History of Computing and Online Social Communities, the Encyclopedia of Social Network Analysis and Mining (ESNAM), 2013.
- Joseph Kizza, Li Yang, Is the Cloud the Future of Computing?, a book chapter in "Security, Trust, and Regulatory Aspects of Cloud Computing in Business Environments", 2013.

- Li Yang, Managing Secure Database Systems, a book chapter in *Readings and cases in information security: law and ethics*, Whitman, M.E. & Mattord, H. J.,(editors), Course Technology, Cengage Learning, ISBN 1-435-44157-5, 2011.
- Ran Tao, Li Yang, et al., A Host-Based Intrusion Detection System Using Architectural Features to Improve Sophisticated Denial-of-Service Attack Detections,*International Journal of Information Security and Privacy*, 2010.
- Li Yang, Alma Cemerlic, Xiaohui Cui. A fine-grained reputation system for reliable routing in wireless ad hoc network, *Journal of Security and Communication Network*, 2010.
- L. Peng, L. Yang and B. Ramadass, Architectural Support for Enhancing Critical Secrets Protection in Chip-Multiprocessors, a book chapter in *Pervasive Information Security and Privacy Developments: Trends and Advancements*, June 2010.

### Conference Proceedings:

- Eric Reinsmidt, Li Yang Mobile Authentication Methodologies in Healthcare Systems, the 26th Modern Artificial Intelligence and Cognitive Science Conference, accepted, Greensboro, NC, 2015.
- Perron Johnson, Philip Harris, Keheira Henderson, Xiaohong Yuan, Li Yang, A Course Module on Mobile Malware, Information Security Curriculum Development (InfoSecCD), Knennesaw, GA, October, 2014.
- Wenliang Du, Li Yang, Joseph Kizza, Xiaohong Yuan, New Hands-on Labs on Browser Security, poster SIGCSE 2014, Atlanta, GA.
- Xiaohong Yuan, Kenneth Williams, Huiming Yu, Bei-Tseng Chu, Audrey Rorer, Li Yang, Kathy Winters, Joseph Kizza, Developing Faculty Expertise in Information Assurance through Case Studies and Hands-on Experiences, the Proceedings of the 48th the Hawaii International Conference on System Sciences (HICSS), January 2014.
- Minzhe Guo, Prabir Bhattacharya, Kai Qian and Li Yang, WIP: Authentic Learning of Mobile Security with Case Studies, Frontiers in Education Conference (FIE), October 2013.
- Li Yang and Xumin Liu, Work in Progress: Teaching Business Analytics, Frontiers in Education Conference (FIE), October 2013.
- Minzhe Guo, Kai Qian, Ming Yang, KuoSheng Ma, Liang Hong, Li Yang, Android-Based Mobile Sensory System Labware for Embedded System Education, IEEE International Conference on Advanced Learning Technologies (ICALT), Beijing, China, July 2013.
- Ming Yang, Kai Qian, Minzhe Guo, Prabir Bhattacharya, Guillermo Francia, Li Yang, Enhance Computer Networks Learning with Hands-on Mobile Device Based Labware, Proceedings of the ACM Technical Symposium on Computer Science Education (SIGCSE), March 2013, accepted.
- Minzhe Guo, Prabir Bhattacharya, Ming Yang, Kai Qian, Li Yang, Learning Mobile Security with Android Security Labware, Proceedings of the ACM Technical Symposium on Computer Science Education (SIGCSE), March 2013, accepted.
- David Schwab, Li Yang, User and Device Authentication in a Mobile Cloud Environment, The Proceedings of Cyber Security and Information Intelligence Research Workshop, ACM Digital Library, Oak Ridge, TN, January, 2013, accepted.
- Wade Gasior and Li Yang, Exploring Covert Channel in Android Platform, Cyber Security Conference, Washington D.C., pages 516-520, December, 2012,.
- Hong Qin, Alexander Shapiro, and Li Yang, Emerging Infectious Disease: A Computational Multi-agent Model, BioMedCom Conference, Washington D.C., pages 583-588, December, 2012.
- Kai Qian, Prabir Bhattacharya, Minzhe Guo, Li Yang, Work in Progress: Real World Relevant Security Labware for Mobile Threat Analysis and Protection Experience, Frontier in Education, Seattle, WA, November, 2012.

- Li Yang, Joseph Kizza, Andy Wang, C. H. Chen, Teaching Cryptography Using Hands-on Labs, poster, The 43rd ACM Technical Symposium on Computer Science Education (SIGCSE), Raleigh, NC, March, 2012.
- Wade Gasior, Li Yang, Covert Channel in Smart Phones, Work in Progress (WiP), The 27th Annual Computer Security Applications Conference (ACSAC), Orlando, FL, December, 2011.
- Rajeshwar Katipally, Li Yang, Anyi Liu, Attacker Behavior Analysis in Multi-stage Attack Detection, the Proceedings of Cyber Security and Information Intelligence Research Workshop, ACM Digital Library, Oak Ridge, TN October, 2011.
- Wade Gasior, Li Yang, Network Covert Channels on the Android Platform, the Proceedings of Cyber Security and Information Intelligence Research Workshop, ACM Digital Library, Oak Ridge, TN October, 2011.
- Li Yang, Mina Sartipi, Matt McNeely, Usable Protection to Healthcare Application, the Proceedings of Cyber Security and Information Intelligence Research Workshop, ACM Digital Library, Oak Ridge, TN October, 2011.
- Swetha Dasireddy, Wade Gasior, Xiaohui Cui and Li Yang, Visualization and Clustering in Network-based Intrusion Detection, the Proceedings of Cyber Security and Information Intelligence Research Workshop, ACM Digital Library, Oak Ridge, TN 2010.
- Rajeshwar Katipally, Wade Gasior, Xiaohui Cui and Li Yang, Multi stage attack Detection system for Network Administrators using Data Mining, the Proceedings of Cyber Security and Information Intelligence Research Workshop, ACM Digital Library, Oak Ridge, TN 2010.
- Kai Qian, Li Yang, Innovative CS Capstone Project For Green Smart Computing With WSN In A Box, The 10th IEEE International Conference on Advanced Learning Technologies, 2010.

#### 10. Recent professional development activities

- ABET training as part of SIGCSE conference in Denver, CO in 2013

### **Accomplishments**

- Prabir Bhattacharya, Li Yang, Minzhe Guo, Kai Qian, Ming Yang, Learning Mobile Security with Labware, Education column, IEEE Security and Privacy Magazine: Vol 12 No. 1, 2014.
- Wu He, Xiaohong Yuan, Li Yang, Supporting Case-based Learning in Information
- NSF CCLI Type 1, Collaborative Project: Teaching Cryptography through Hand-on Learning and Case Studies, #0942581, Lead-PI, \$99,985, awarded, 2010-2013. Resources.