

LIU Xi

- CONTACT INFORMATION** Harold Frank Hall 2162 Phone: +86 13914798167
Department of Computer Science +1 (805) 453-8798
University of California Fax: +86 25 83593671
Santa Barbara, CA 93106-5110 liux@seg.nju.edu.cn
U.S.A. http://seg.nju.edu.cn/~liux/
- RESEARCH INTERESTS** Formal modeling, analysis and verification of software
Services computing
Software engineering
- EDUCATION** *Ph.D. Candidate*, Computer Science and Technology
Nanjing University, June 2012 (expected)
Supervisor: Professor Xuandong Li
- M.S.*, Computer Science and Technology
Nanjing University (upgraded to Ph.D., June 2008)
Supervisor: Professor Xuandong Li
- B.S.*, Computer Science and Technology
Nanjing University, June 2006
GPA: 88/100 Rank: top 10%
- RESEARCH & WORK EXPERIENCE** *Software Engineering Group, Nanjing Univ.* *October 2005 – Now*
Study and research in software engineering and services computing
Supervisor: Professor Xuandong Li (Head of department)
- University of California, Santa Barbara* *November 2010 – November 2011*
Research on artifact-centric modeling, formal analysis and behavior manipulation of business processes in Department of Computer Science, UCSB, USA
Supervisor: Professor Oscar H. Ibarra (Fellow of ACM, IEEE and AAAS), Professor Jianwen Su
- UNU-IIST* *January 2010 – October 2010*
Research on formal methods and compensable transactional process as a fellow of the International Institute for Software Technology of the United Nations University (UNU-IIST), Macau
Supervisor: Jeff W. Sanders (Senior research fellow)
- University of Leicester, UK* *September 2009 – October 2009*
Research in formal modeling and verification on service-oriented systems in the Department of Computer Science
Supervisor: Professor José Fiadeiro (Head of department)
- Fudan University* *August 2009*
Participate in work group led by Professor Jianwen Su (UCSB) on Artifact-centric business process modeling at Fudan University, Shanghai, China
Supervisor: Professor Jianwen Su (UCSB), Professor Liang Zhang (Fudan)
- PUBLICATIONS** LIU Xi, Jianwen SU, and Jian YANG. Preservation of Integrity Constraints by Workflow. In *Proc. International Conference on Cooperative Information Systems*

(CoopIS), 2011. (to appear)

LIU Xi, YANG Lu, PAN Minxue, WANG Linzhang. Scenario-based web services behavior manipulation. *Chinese Journal of Software*. 2011, 22(6) : 1185-1198. (in Chinese with English abstract)

LIU Xi, Shaofa YANG and J.W.SANDERS. Principles and validation of compensation in transactional processes. *Technical Report 433*, UNU-IIST, P.O. Box 3058, Macau, June 2010.

YANG Lu, LIU Xi, WANG Linzhang, CHEN Xin, LI Xuandong. Scenario-Based Analysis and Verification for Web Services Message Flows. *Chinese Journal of Computers*, Vol.32 No.9. pp 1759–1772. September, 2009. (in Chinese with English abstract)

LIU Guohua, LIU Xi, QIN Haihuan, SU Jianwen, YAN Zhimin, ZHANG Liang. Automated Realization of Business Workflow Specification. *1st International Workshop on SOA, Globalization, People, & Work (SG-PAW 2009)*. November, 2009. In *Service-Oriented Computing. ICSOC/ServiceWave 2009 Workshops*, volume 6275 of LNCS, pages 96108. Springer, 2010.

**SELECTED
RESEARCH
PROJECTS**

Agentized and service oriented internetware modelling, methodology and dependability assurance
973 National Basic Research Program, 2009CB320702, 2009–2013

Reorganization and comprehension based software dependability evaluation architecture and supporting techniques
National Natural Science Foundation of China, 90818022, 2009–2012

Key technologies and supporting tools for model-driven software testing and verification
863 High Tech Plan, 2008

Software service composition and its quality assurance techniques
Natural Science Foundation of Jiangsu Province, 2008–2010

A production line for analysis and evaluation of software dependability
863 High Tech Plan, 2007AA010302

Scenario-based behavior obtainment and verification of web services composition
National Natural Science Foundation of China, 60673125, 2007–2009

**HONORS &
AWARDS**

Scholarship under State Scholarship Fund for high-level university joint Ph.D. student program June 2010
Fellowship from United Nations University (UNU-IIST) January 2010
Scholarship for short-term visiting student from Nanjing Univ. June 2009
Jiangsu Province Government Scholarship September, 2005
The People's scholarship – Rank 2 September, 2004
The People's scholarship – Rank 3 September, 2003

**ADVANCED
TRAINING**

April 28 – May 9, 2008 Guizhou Normal University, Guiyang, China
UNU-IIST Spring School on Foundation and Advance Software Engineering

August 1–10, 2007 Soochow University, Suzhou, China
Artist2/UNU-IIST 2007 Summer School

August 7–18, 2006 East China Normal University, Shanghai, China
High Dependability Computing Technology Seminar

**SCORES OF
SELECTED
COURSES**

Mathematical logic:96, Parallel processing: 95, Object-oriented and Java Programming: 90, Compiler principle: 90, Formal language and automata: 90, Grid computing:95, Theory of computation: 93, Distributed computing: 92

SKILLS

Computer Technology

Languages: Java, C/C++, C#, WS-BPEL, SQL, BASH, PHP/HTML
Operating Systems: Windows, Linux.

Foreign Languages

Fluent: English

(TOEFL iBT: 105, PhD English: 96, English for Computer Science: 98)

Basic Communication: German

(Second Foreign Language: 95)

**DEVELOPED
TOOLS**

BASIS: Behavior Analyzer for Interactive Services v0.1.0

<http://seg.nju.edu.cn/BASIS010/>

SSCC: Service Scenario-based Consistency Checker

<http://seg.nju.edu.cn/SSCC/>

**ACADEMIC
SERVICES**

Participating in organizing 11th IEEE High Assurance Systems Engineering Symposium (HASE 2008)
December 3–5, 2008, Nanjing, China

Volunteer for IEEE 2008 International Conference on Web Services (ICWS 2008)
September 23 –26, 2008, Beijing, China

Participated in organizing and volunteer for 2nd IEEE International Symposium on Theoretical Aspects of Software Engineering (TASE 2008)
June 17–19, 2008, Nanjing, China

**SOCIAL AND
STUDENT
SERVICES**

- January 2005 – January 2006

President of Microsoft Student Technology Club of Nanjing University

- July 2005

Summer camp held by Microsoft Research Asia (MSRA)

- 2002 – 2006

Core member of Microsoft Student Technology Club of Nanjing University

- October 2002 – January 2003

Member of debate team of Department of Computer Science and Technology

REFEREE

Professor Xuandong Li

Head of Department of Computer Science and Technology

Nanjing University, Nanjing China

lxd@nju.edu.cn

Professor Jianwen Su
University of California, Santa Barbara
su@cs.ucsb.edu

Jeff W. Sanders
Senior research fellow
Institute for Software Technology of the United Nations University (UNU-IIST)
jeff@iist.unu.edu