

Xinyu Zhou, PhD

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EDUCATION

- PhD, Computer Science and Engineering, Arizona State University, USA Feb, 2008
 - Master & Bachelor, Computer Science and Engineering, South China University of Technology May, 2004
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PUBLICATIONS

- **Book:** Testing and Verifying Web Services- from the research's perspective, VDM Verlag Dr. Mueller e.K., September 3, 2008 <http://www.amazon.com/Testing-Verifying-Services-Xinyu-Zhou/dp/3639077881>
 - W.T. Tsai, Xinyu Zhou, Yinong Chen, Xiaoying Bai, On Testing and Evaluating Service-Oriented Software, *Computer*, vol. 41, no. 8, pp. 40-46, Aug., 2008
 - W.T. Tsai, Xinyu Zhou, Yinong Chen, SOA Simulation and Verification by Event-Driven Policy Enforcement, *Annual Simulation Symposium 2008*
 - W.T. Tsai, Xinyu Zhou, Raymond A. Paul, Yinong Chen, Xiaoying Bai, A Coverage Relationship Model for Test Case Selection and Ranking for Multi-version Software, *10th IEEE High Assurance Systems Engineering Symposium, 2007*.
 - W. T. Tsai, Xinyu Zhou, Yinong Chen, Bingnan Xiao, Raymond A. Paul, Roadmap to a Full Service Broker in Service-Oriented Architecture, *Third IEEE International Workshop on Service-Oriented System Engineering, 2007*.
 - W. T. Tsai, Xinyu Zhou, Xiao Wei, A Policy Enforcement Framework for Verification and Control of Service Collaboration, *Information Systems and E-Business Management, Springer, Sep, 2007*.
 - W.T Tsai, Qian Huang, Bingnan Xiao, Yinong Chen, Xinyu Zhou, Collaboration Policy Generation in Dynamic Collaborative SOA, Eighth International Symposium on Autonomous Decentralized Systems, ISADS2007
 - X. Zhou, W. T. Tsai, X. Wei, Y. Chen, B. Xiao, Pi4SOA: A Policy Infrastructure for Verification and Control of Service Collaboration, *The IEEE International Conference on e-Business Engineering, 2006*
 - W. T. Tsai, Yinong Chen, Ray Paul, Xinyu Zhou, and Chun Fan, Simulation Verification and Validation by Dynamic Policy Specification and Enforcement, *SIMULATION: Transactions of the Society for Modeling and Simulation, 2006*.
 - W.T Tsai, X. Bai, Y. Chen, X. Zhou, "Web Service Group Testing with Windowing Mechanisms," IEEE International Workshop on Service-Oriented System Engineering (SOSE), Beijing October 2005, 213-218.
 - W.T. Tsai, Y. Chen, R. Paul, H. Huang, X. Zhou, X. Wei, Adaptive Testing, Oracle Generation, and Test Case Ranking for Web Services, *Proceedings of the IEEE COMPSAC, 2005*
 - Xinyu Zhou, Heqing Guo, Xiang Xu, The framework based on Decision support system for knowledge acquisition from import and export data, *Proceedings of the 4th International Symposium on Knowledge and Systems Science, 2003*
 - Xiang Xu, Heqing Guo, Xinyu Zhou, Reinforcement of UML and Implementation of DLMM Platform for Information System, *Proceedings of the 4th International Symposium on Knowledge and Systems Science, 2003*
 - Xiang Xu, Xinyu Zhou, Heqing Guo, Kun Xiao, A JUnit-based Automatic System Unit Test Model and Implementation, International Workshop on Meta-Synthesis and Complex System, 2003.
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PROFESSIONAL SERVICE

- Reviewer: DSN'05, Simulation Transaction, SOCA'08
 - Web Chair: ISADS'07, ICEBE'06, WCCIA'06, WORDS'05, SOSE'06
 - Operations Committee: ISADS'07, SOSE'05, WORDS'05
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WORK EXPERIENCE

Research Intern, Translational Genomics Research Institute (TGen), Phoenix, AZ May, 2007-Aug, 2007

- Studied the statistical genomic data using statistical tools R, SAS and Matlab.
- Designed and implemented a federated database system with SQL server and MySQL to support the analysis on SNP, Microarray and expression data.
- Developed the web-based report and plotting functions with C++, Visual Studio, SQL, Reporting Services and ASP.NET.

Software Engineer in Test Intern, **Google Inc.**, Mountain View, CA May 2006-Aug, 2006

- Designed and developed an Eclipse Plug-in and a Visual Studio add-in for an automation testing tool. NET, Eclipse, Java, Eclipse plug-in, Visual Studio add-in, C++.
- Designed and developed a Web-based IDE for automation testing, including recorder and replay. This IDE automatically generates test case code. Firefox extension, JavaScript, Eclipse, c++, Selenium.

Research Assistant, Joint Project between **Microsoft Research** and Arizona State University Oct 2005-May, 2006

- .NET Intermediate Language level and executable level code instrumentation and optimization; Phoenix compiler backend tool, .NET, C#, C++, Intermediate Language.

Software Engineer in Test Intern, **Lucent** Technologies (Global Design Center) Apr 2004-Aug 2004

- Developed and testes the 5ESS Network Switch; C++, Solaris

Research Assistant, Arizona State University Jul 2004-present

- Developed a verification framework to test web services. C++, Java, Eclipse, IBM Websphere, IBM Rational Application Developer, Axis, Apache Tomcat, IIS, WS-Policy, WS-notification, WSDL, OWL-S, BPEL, .NET, UDDI, Java, JWSDP, ebXML, Verification, Testing, Statistics.

TEACHING EXPERIENCE

Teaching Assistant, Arizona State University Aug 2005-Dec 2007

- Teaching Assistant of the graduate level course "Distributed Software Development". Tutored students how to design and develop distributed software and web services. C++, JDeveloper, Oracle SOA suite, Eclipse, Visual Studio 2005, Web Services, BPEL, Ontology, WSDL.
- Teaching Assistant of the graduate level course "Software Verification, Validation and Testing". Tutor students in basic and advanced software testing knowledge; Instruct students in Web Service developing and testing.

TECHNICAL SKILLS

- Math: Calculus, Statistics, Series/Sequence
- Programming: C#, C++, Java, Javascript, Python, Servlet, JSP, PHP, HTML, XML, XMI, ASP, UML, Design Patterns
- Tools: .NET, VB, Delphi, Eclipse, Tomcat, Lotus, Rational Rose, Bugzilla, JUnit, VSS, Oracle SOA suite, Websphere, IIS, Rational Application Developer
- OS: Solaris, Unix, Linux, Windows
- Databases: MS SQL Server, My SQL, Sybase, Oracle, DB2, ODBC, JDBC