
Education

UNIVERSITY OF VIRGINIA

CHARLOTTESVILLE, VA

Master of Science in System Engineering *May 2008*

Master of Computer Science *May 2006*

- **GPA:** 3.95/4.00, Full Graduate Fellowship
- Related Coursework:
 - System Engineering:** Strategic Management Consulting, Time Series Analysis, Cross-Section Metrics, Multivariate Statistics, Statistical Inference, Math Programming, Stochastic Process, Applied Linear Models, Corporate Finance
 - Computer Science:** Operating System, Design and Analysis of Algorithms, Information Assurance, Computer Networks, Simulation, Theory of Computation, Data Mining, Computer Architecture

SHANGHAI JIAOTONG UNIVERSITY

SHANGHAI, CHINA

Bachelor of Science in Mathematics and Computer Science, *July 2004*

- **Major GPA:** 3.78/4.00, Excellent Student Scholarship (2000-2003)

Qualifications

- Strong problem solving and communication skills
- **Skills:** excellent programming skills(algorithm design and analysis, object oriented design and analysis), statistical modeling and data mining in engineering and business field, econometrics analysis and financial modeling
- Rich project experience in computer science and business case studies
- **Language:** C++, Java, .NET C# , SQL, SAS, Matlab, Gauss, Excel spreadsheet, HTML, XML, ASP.NET

Experience

Empirical Analysis of Cyber Security and Investment, 2006-Now

- Applied classification tree to find the attribute pattern of companies whose security breach events will more likely be reported widely.
- Built time series model to test the structural change in web traffic volume targeting on online business companies having security breach events
- Built Poisson regime switching model to find vulnerability arrival pattern for open and closed source system such as Windows and Fedora Core.

Policy Based Authorization and Auditing Infrastructure for Grid System funded by Microsoft Research, 2005-2006

- Designed and analyzed the security policy language and role based access control mechanism for grid authorization and auditing
- Implemented the core auditing policy evaluation engine and the authorization infrastructure based on XACML and SOA

Publications

- G. Davis, A. Garcia, W. Zhang. [Empirical Analysis of the Effects of Cyber Security Incidents.](#) *Submitted to Journal of Risk Analysis*
- W. Zhang, D. Del Vecchio, G. Wasson, and M. Humphrey. [Flexible and Secure Logging of Grid Data Access.](#) *7th IEEE/ACM International Conference on Grid Computing (Grid 2006)*, Sept 28-29, 2006, Barcelona Spain.(acceptance ratio: 18%)
- W. Zhang, D. Del Vecchio, G. Wasson, and M. Humphrey. [Integrating Legacy Authorization Systems into the Grid: A Case Study Leveraging AzMan and ADAM.](#) *2006 International Conference on Computational Science (ICCS 2006)*. Reading, UK. May 28-31, 2006.