



# Jennifer L. Bayuk, Ph.D

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## PRIMARY AREAS OF EXPERTISE:

- Information Systems Security Architecture
- Financial Services Cybersecurity Regulatory Requirements
- Cloud Security Architecture
- Information Systems Security Metrics
- Information Technology and Cybersecurity Risk Management
- Information Technology Governance and Compliance
- Information Security Management
- Information Technology Audit
- Cybersecurity Tools & Techniques
- Cybersecurity Software Applications & Integration
- Technology Control Objectives and Methods
- Technology-related Privacy Issues
- Information Technology Due Diligence

## EXPERIENCE:

### **Jennifer L. Bayuk, LLC, 2008 - present** *Independent Consultant*

- Devise and assist in the implementation of security management strategies, policy and metrics.
- Research and document technical architecture and requirements for both institutions and security product vendors.
- Teach and provide curriculum for local industry associations and Stevens Institute of Technology.
- Design, develop, and maintain cybersecurity risk assessment and forensic analysis software hosted on Amazon Web Services.

### **JPMorgan Chase, 2016 - 2017**

#### *Managing Director, Cybersecurity Risk*

- Designed, managed, and measured a Cybersecurity Risk Management framework in support of \$600M Firmwide Cybersecurity Program.
- Managed cybersecurity governance and control processes including but not limited to risk and control self-assessment, resiliency and recovery, issue management, third party oversight, and inter-affiliate agreements.

### **Citigroup, 2013 - 2016**

#### *Managing Director, Operational Risk*

- Coordinated global activities to identify, measure, monitor, and manage key cybersecurity and technology risks.
- Participated in risk-related corporate governance forums such as the Information Security Committee, Fraud Oversight Committee, and Business Risk and Control Committees.

### **Bear Stearns & Co., 1998 - 2008**

#### *Senior Managing Director, Chief Information Security Officer*

- Designed and implemented policy and processes to protect, detect, and recover from harm to information, including development of tools and techniques for all security processes, including digital identity, application inventory and information systems risk management.
- Directed cybersecurity investigations, penetration tests and management response to IT audits, including forensics and remediation activities in coordination with legal and compliance.
- Established and maintained enterprise-wide security, change control, and business continuity metrics, achieved Chief Information Security Officer Title in 2002.

## EDUCATION:

- Ph.D. Systems Security Engineering, Stevens Institute of Technology, 2012
- M.S. in Computer Science, Stevens Institute of Technology, 1992
- M.A. in Philosophy, Ohio State University, 1986
- B.A. in Computer Science and Philosophy, Rutgers College, 1985

## PUBLICATIONS:

Publications available at <http://www.bayuk.com/>

### **AT&T Capital Corporation, 1997 - 1998**

#### *Manager, Information Systems Business Controls, Head of IT Audit*

- Evaluated and developed tools for operating system, database management system, and network security testing as well as data analysis, incident tracking, and reporting.

### **Price Waterhouse LLP, 1995-1997**

#### *Information Systems Risk Manager*

- Managed a wide variety of security consulting and audit projects for the Price Waterhouse Information Risk Management Practice, including penetration tests and physical infrastructure reviews.
- Performed systems infrastructure analysis directed at improving technical security architecture, security management processes, and information system operational risk management.
- Wrote and customized programs for security testing.

### **AT&T Bell Laboratories, 1990 - 1995**

#### *Information Security Technical Staff*

- Envisioned, designed, specified, developed, demonstrated, tested, and documented software for expert systems, graphical user interfaces, databases, and network monitors.
- Participated in audits and security investigations of the Public Switched Phone Network

## CERTIFICATIONS:

- Certified Information Systems Auditor (CISA)
- Certified Information Security Manager (CISM)
- Certified in the Governance of Enterprise IT (CGEIT)
- Certified Information Systems Security Professional (CISSP)
- NJ State Licensed Private Investigator