

**Curriculum Vitae  
Ahmad Ghafarian**

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**Education**

**Postdoctoral Fellow** in Information Assurance (IA), *University of Maryland University College (UMUC)*, 2005-2007.

**Cisco Certificate:** Cisco security certificate, summer 2005.

**Graduate Certificate** in Information Assurance and Security (IAS): Department of Computer Science, CERIAS, Purdue University, Jun--August 2003.

**Ph.D.** in Computer Science, *University of Glasgow, Glasgow, Scotland, UK*, January 1982.

**Diploma (M.Sc.)** in Computer Science, *University of Glasgow, July 1974.*

**B.Sc.** in Mathematics, University of Mashhad, Meshhad, Iran, July 1970.

**Academic Experience**

9/1996 - Present	Professor (Tenured) & Computer Science Coordinator Department of Mathematics and Computer Science <i>North Georgia College &amp; State University, Dahlonega, Georgia</i>
01/1995 - 5/1996	Assistant Professor, Department of Computer Science <i>Tuskegee University, Tuskegee, Alabama</i>
08/1992 - 12/1994	Assistant Professor, Department of Computer Science <i>Ferdowsi University, Mashhad, Iran</i>
08/1990 - 07/1992	Associate Professor, Department of Mathematics and Computer Science <i>Marycrest International University, Davenport, Iowa</i>
10/1989 - 08/1990	Visiting Scholar, Computer Science Department <i>University of Chicago, Chicago, Illinois</i>
08/1982 - 11/1989	Assistant Professor, Department of Mathematics and Computer Science <i>Kerman University, Kerman, Iran</i>

## Publications

Ghafarian Ahmad, and Jason Garruto, "An Analysis of Data Protection Strategies", *Proceedings of the 2009 International Conference on Security & Management (SAM'9)*, Las Vegas, NV, July 12--17, 2009.

Ghafarian Ahmad, "Web Spoofing", *Proceedings of the 2008 International Conference on Security & Management (SAM'8)*, Las Vegas, NV, pp 313-317, July 14--17, 2008.

Ghafarian Ahmad, "Experience of Developing an Information Assurance and Security (IAS) Curriculum", *Proceedings of the 39<sup>th</sup> ACM SIGCSE*, Portland, Oregon, March 12-16, 2008.

Ghafarian Ahmad, "Securing Voice over Internet Protocol", *International Journal of IAS, Vol. 2, Issue 3 pp (200-204), September 2007.*

Ghafarian Ahmad, "An Innovative Approach in Teaching Object-Oriented Programming to the Novice", *Proceedings of the 37<sup>th</sup> SIGCSE*, which was held in Huston, Texas, March 1-5, 2006.

Ghafarian Ahmad, "Reverse Engineering technique to Enhance Software Engineering Education", *Proceedings of the 10<sup>th</sup> the Annual SIGCSE Conference on Innovation and Technology in Computer Science Education (ITiCS)*, p. 354, June 2005.

Ghafarian Ahmad, "Linked List Animation using Macromedia Flash", *Proceedings of the 36<sup>th</sup> Symposium in Computer Science Education (SIGCSE)*, page 575, February, 2005

Dark, Melissa. Ghafarian Ahmad, and Jesse Yu, "Incorporating Ethical Issues into the Computer Science Curriculum using Case-Based Instruction and Rubric", *Proceedings of the 35<sup>th</sup> Symposium in Computer Science Education (SGCSE)*, Norfolk, VA March 3- 7, 2004.

Ghafarian Ahmad and Syed Ahmed, "Data mining and Privacy issues, proceedings of the international Conference on Information Technology Coding and Computing", *ITCC 2003* April 28-30, 2003

Ghafarian Ahmad and Willie Yip, "Application of PBL and APL Strategies in Teaching of Information Systems Courses in Two countries", *Proceedings of the 17th Annual International Academy for Information Management, (IAIM) conference*, pp. 268-276, Barcelona, Spain, Dec. 13-15, 2002,

Dark Melissa and Ahmad Ghafarian, "Information Ethics and Social Issues in the Undergraduate Computer Science Curriculum: A Curriculum Development and Implementation Report." *Proceedings of 6<sup>th</sup> National Colloquium for Information Systems Security Education Conference*, Seattle Washington, June 3-6, 2002.

Ghafarian Ahmad, "Integrating Ethical Issues Into the Undergraduate Computer Science Curriculum", *Journal of Computing Science in Colleges*, Vol. 18, No. 2, pp. 180-188, December 2002.

Ghafarian Ahmad, and Willie Yip "Students Assessment in PBL Setting for Information Systems Courses" *Proceedings of the 16th Annual International Academy for Information Management, (IAIM) conference* pp.173-181, New Orleans, Louisiana, Dec. 14-16, 2001.

Ghafarian Ahmad, "Incorporating a Semester long Project into the CS 2 course," *The Journal of Computing Science in Colleges*, Vol. 17, No. 2, PP. 172-178, December 2001.

Yip Willie and Ahmad Ghafarian, "Problem-Based Learning Assessment for Information Systems Courses", *Proceedings of the 15th Annual International Academy for Information Management, (IAIM) conference*, pp. 29-36, Brisbane, Australia, Dec. 8-10, 2000.

Ghafarian Ahmad, "Teaching Design Effectively in the Introductory Programming Courses", *Journal of Computing in Small Colleges*, Vol. 16, No. 2, pp. 201-208, January 2001.

Ghafarian Ahmad and Willie Yip, "An Analysis of Students' Perception of Learning Programming At Two Universities in Two Countries," *Proceedings of the 14th Annual International Academy for Information Management, (IAIM)* pp. 317 - 323, Charlotte, North Carolina, December 10- 12, 1999.

Ghafarian Ahmad, "Lessons Learned in Teaching Object-Oriented Programming in CS1," *The Journal of Computing in Small Colleges*, Vol. 15, No. 2, PP. 278-286, November 5-6, 1999.

Ghafarian Ahmad, "A Lab Oriented Approach to Team Programming Projects in Computer Information Systems courses," *Proceedings of the 14th Annual International Academy for Information Management, (IAIM)* pp. 122-125, Helsinki, Finland, December 11- 13, 1998.

Ghafarian Ahmad, "Incorporating Software Testing In Programming Courses," *The Journal of Computing in Small Colleges*, PP. 85-91, Carson-Newman College, Jefferson City, Tennessee, November 6-7, 1998.

Ghafarian Ahmad and Kathy A. Sisk, "Developing A CIS Curriculum Based on the Industry Needs Survey," *Proceedings of the 12th Annual International Academy for Information Management, (IAIM)* pp. 317 - 323, Atlanta, Georgia, December 12- 14, 1997.

Ghafarian Ahmad, "Electronic Administration and Grading of Programming Assignments," *The Journal of Computing in Small Colleges*, PP. 6 - 11, Hickory, North Carolina, November 6-8, 1997.

Ghafarian Ahmad, "Scheduling Parallel Iterative Methods on Multiprocessor Systems," *Proceedings of the 34th Annual ACM Southeastern Conference*, pp. 347-349, Tuskegee, Alabama, April 17-19, 1996.

Ghafarian Ahmad, " Maintenance Tools", *Proceedings of the First National Iranian Maintenance Conference, (MAINT)*, pp. 51-66, Isfahan University of Technology, Isfahan, Iran, September 5-7, 1994.

Jameison, M.J. and Ahmad Ghafarian, "The Geometric Approximation as an Example of Aitken's -  $\delta^2$  Transformation," *Molecular Physics*, Vol. 32, No., 6, pp. 1777 - 1780, 1976.

Jameison, M.J. and Ahmad Ghafarian, "The Geometric Approximation in Time Dependent Hartree-Fock Theory", *Molecular Physics*, Vol. 30, No., 5, pp. 1611 - 1614, 1975.

## **Research Interests**

Security of VoIP

Online-education  
Object-Oriented software testing  
Parallel Processing  
Computer Science Education

### **Grants**

In 2000 on behalf of the North Georgia College & State University I was awarded a Microsoft Instructional Lab Grant for Software Licenses valued at \$50,000.

In 1998 on behalf of the North Georgia College & State University I was awarded a Microsoft Instructional Lab Grant for Software Licenses valued at \$100,000.

### **Courses Taught**

#### **Undergraduate**

C++ & Java Programming  
Programming Languages  
Object-Oriented Systems  
Systems Analysis and Design  
Data Structures and Algorithm  
Software Engineering  
Database Systems  
Computer Organization and Architecture  
Computer Ethics and Social Issues  
Information Security  
Computer Forensics  
Network Security  
Computer Security

#### **Graduate**

Operating Systems  
Compiler Construction  
Computer Organization  
Theory Computation  
Computer Security

### **Course/Curriculum Development in the Past Five years**

I have proposed and Developed curriculum for concentration in Information Assurance and Security, IAS, November 2005.

I have Coordinated Semester conversion for the Computer Science program at NGCSU.

I have Performed needs assessment for Computer Information Systems (CIS) program, prepared the proposal that was submitted to the Board of Regents of the University System of Georgia, and developed the CIS curriculum

I have Incorporated ACM 2001 curricula guidelines to our computer science program.

### **Academic and Professional Activities**

Paper Reviewer      ACM SIGCSE 2000-present.  
ACM Southeastern conference 1998 & 2005  
**ACM SAC'** (Symposium on Applied Computer) 98, 99, 00, 01  
International Academy for Information Management (**IAIM**), 98  
Consortium for Computing Science in Colleges (**CCSC**), 97, 98, 99, 01,  
02, &03.

Faculty Poster Chair:    ACM Southeastern Conference, 2005

NSF Proposals Reviewer:      2002 and 2003

Book Review:

1. Systems Analysis and Design, first edition, by Alan Dennis and Barbara Haley Wixom, John Wiley & Sons
2. Object-Oriented Program Development Using C++: A Class-Centered Approach, by Gary Bronson. Course Technology
3. Building Java Programs: A Fundamentals First Approach, by Stuart Reges and Marty Stepp. Addison Wesley.

Panel chair: IS2000 panel presentation in the 14<sup>th</sup> *International Academy for Information Management (IAIM) conference*, Charlotte, North Carolina, December 10-12, 1999

Session chair: *13<sup>th</sup> International Academy for Information Management (IAIM)*, Helsinki, Finland, December 11-13, 1998.  
*12<sup>th</sup> International Academy for Information Management (IAIM)*, Hilton Towers, Atlanta, Georgia, December 12-14, 97.

Advisory Committee NGCSU representative in statewide academic advisory committee in computing discipline (AACCD), since 2001.

**Conferences and Workshops Attended**

1. 10<sup>th</sup> International Conference on Innovation and Technology in Computer Science Education, (ITiCSE), Mont Da Caparica, Portugal, June 27-29, 2005.
1. CISCO Security Workshop, Kennesaw State University, Kennesaw, GA, summer 2005.
2. Teaching with Instructional Multimedia in Mathematics, Science and Technology (TIM), Summer Institute, July 11-23, 2004, Essex Campus of CCBC, Baltimore, MD 21237.
3. Symposium on The Need for Information Security at Kennesaw State University, Kennesaw, GA, September 5, 2003
4. Consortium for Computing Science in Colleges (CCSC), Georgia Perimeter College, Dunwoody, GA, Nov. 7 & 8, 2003.
5. Information Security Curriculum Development, Sponsored by Course Technology and Kennesaw State University, Kennesaw, GA, November 13, 2003.
6. *ACM Special Interest Group on Computer Science Education (SIGCSE) Technical symposium*, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, and 2005.
7. *International Conference on College Teaching and Learning (IAIM)*, Jacksonville, FL, 1998, 1999, 2000, 2001, 2002
8. NSF sponsored 5 days workshop in CERIAS center at Purdue University on “*Protecting Information in the Computer and Beyond*”, West Lafayette, IN, October 2001.
9. *NSF Faculty Development Workshop*, Northeastern University, Boston, MA, June 8-9, 2000.

10. *Georgia Institute of Technology Faculty Development Program Workshop*, Atlanta, GA, February 13-14, 1998.
11. *NSF Undergraduate Faculty Enhancement Workshop in Scientific Visualization*, Department of Mathematics and Computer Science, Georgia State University, Atlanta, GA, August, 18 - 22, 1997.
12. *NSF Undergraduate Faculty Enhancement Workshop on Dissemination Efforts to Promote Course and Curriculum changes using C++*, Department of Computer Science, University of Virginia, Charlottesville, VA, July 12 - 19, 1997.
13. *Georgia Conference on College and University Teaching*, Kennesaw State University, Kennesaw, GA, April 17 - 18, 1997.
14. *Clemson University & Addison Wesley Java Workshop*, Clemson, SC, April 12, 1997.
15. *35<sup>th</sup> Annual ACM Southeastern Conference*, Middle Tennessee State University, Murfreesboro, TN, April 2 - 4, 1997.
16. *ACM Conference on PLDI 96*, Philadelphia, PA, May 21 - 24, 1996.
17. *First Annual Instructional Technology Conference*, Auburn University and Tuskegee University, Tuskegee, AL, March 20 - 22, 1995.

#### **Professional Organizations**

1. Member, Consortium for Computing Science in Colleges (CCSC), since 1996.
2. Member, Association for Computing Machinery (ACM) and SIGCSE, since 1985.
3. Member, International Academy for Information Management (IAIM), since 1996.
4. Faculty Advisor, NGCSU, Student Chapter of the ACM, since 1998.