

Constantinos Papaconstantinou, Ph.D.

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PROFESSIONAL PROFILE

Worked in academic and industry institutions, most recently as a visiting professor at Georgia Southern University. Worked for nine years as a research assistant professor with the University of South Florida at the H. Lee Moffitt Cancer Research Center. Also, worked at IBM for 10 years as an IT Architect. Published several journal articles and presented work at many conferences. Over 30 years of experience in the Computer Science and Information Technologies.

EDUCATION

Ph.D. (Electrical Engineering), University of Florida, Gainesville, Florida, 1991

M.S. (Computer Science), New York Institute of Technology, New York, New York, 1986

B.S. (Mechanical Engineering), New York Institute of Technology, New York, New York, 1985

EMPLOYMENT HISTORY

Visiting Professor/Instructor at Georgia Southern University
2020-present

Freelance Information Technologies Consultant
2010-2020

Senior Consulting Information Technologies Architect, IBM corporation,
1999-2009

Research Assistant Professor, Division of Epidemiology and Biostatistics,
Department of Pediatrics, College of Medicine, University of South Florida,
Tampa, Florida, 1993 – 1999

Program Leader, Medical Informatics Program, Cancer Control, H. Lee Moffitt Cancer Center at the University of South Florida, Tampa, Florida, 1994 - 1999

Assistant Professor, Pediatric Oncology Group (POG), University of Florida, Department of Pediatrics, Gainesville, Florida, 1993 - 1994

Consultant, Hewlett-Packard Research and Development Department, Boeblingen, Germany, 1992 - 1993

Post Doctoral Associate, J. H. Miller Health Center, University of Florida, Department of Anesthesiology, Gainesville, Florida, 1991 - 1993

Research Assistant, J. H. Miller Health Center, Department of Anesthesiology, Gainesville, Florida, 1989 - 1991

Research Assistant, Machine Intelligence Laboratory, University of Florida, Gainesville, Florida, 1989 - 1989

Research Assistant, Database R&D Center, University of Florida, Gainesville, Florida, 1988 - 1989

Teaching Assistant, New York Institute of Technology, New York, New York, 1985 - 1986

PROFESSIONAL EXPERIENCE

Teaching: Most recently taught Computer Science and IT courses including: Computer Architecture, Data Communications/Networking, Computer Ethics, Intro to IT, IT Infrastructure, Programming Principles using Java

Industry: At IBM, architected software and hardware solutions for fortune 500 companies in different sectors, such as healthcare, retail and insurance.
At USF/ Moffitt, a) developed an Automated Patient Registration and Treatment Randomization System that was used in a number of clinical trials, b) Developed an Expert System for Assigning Patients into Clinical Trials Based on Bayesian Networks.
At UF: Participated in the development of a Computerized Preanesthetic Evaluation Medical Records System for Hewlett-Packard.

Technologies: Hardware architectures, Network architectures, e-Business, WEB

applications (J2EE, Java, Servlets, DHTML, JavaScript, ActionScript, JSP, JDBC, XML, relational database design/implementation)
HP 9000, RS/6000, PCs, Apple
UNIX, HP/UX, AIX, Linux, MS Windows, Mac OS
Java, JavaScript, JSP, DHTML, HTML, C++, C, Visual Basic, FORTRAN.
BD2 UDB, ORACLE, MySQL
OO Design methodology
MS project

HONORS AND AWARDS

Nu Upsilon Tau Honor Society
Member of the Institute of Electrical and Electronics Engineers
Member In Residence -H. Lee Moffitt Cancer Center and Research Institute

COMMITTEES

Member of College of Medicine Academic Computing Committee, College of Medicine, University of South Florida, Tampa, Florida, 1994 - 1996

Chair, Strategic Networking Plan Task Force, H. Lee Moffitt Cancer Center at the University of South Florida, Tampa, Florida, 1994 – 1995

SELECT PUBLICATIONS

Refereed Publications

1. Caselli S, Papaconstantinou C, Doty KL, Shamkant N: A Structure-Function-Control Paradigm for Knowledge-Based Modeling and Design of Manufacturing Work Cells. *Journal of Intelligent Manufacturing* 3:11-30, 1992. Google Scholar: 19 citations
2. Papaconstantinou C, Krischer JP: An Automated Patient Registration and Treatment Randomization System. *Journal of Medical Systems* 19:445-456, 1995. Google Scholar: 8 citations
3. Gibby GL, Schwab WK, Jackson K, Lemeer G, Papaconstantinou C, van der Aa J, Avigne G, Paulus D, Layon AJ: A Computerized Preanesthetic Evaluation Medical Records System: Development, use and Administrative

Impact. *Surg Serv Manage* 2:29-35, 1996.
Google Scholar: 2 citations

4. Papaconstantinou C, Georgios Theocharus, Sridhar Mahadevan: An Expert System for Assigning Patients into Clinical Trials Based on Bayesian Networks. *Journal of Medical Systems*, 22: 189-202, 1998.
Google Scholar: 49 citations

Abstracts and Presentations

1. Ayoub GR, Papaconstantinou C, Doty KL: Task Planning in Discrete Assembly. *First Conference on Recent Advances in Robotics*, Boca Raton, Florida, May, 1988.
2. Papaconstantinou C, Doty KL, Navathe SB: Modeling Parts and Discrete Operations Using an Object Oriented Data Model. *Proceedings of COMSAC*, Orlando, Florida, September, 1989.
3. Papaconstantinou C, Fernicola PF, Doty KL, Navathe SB: Knowledge Based Manufacturing Workcell Design and Modeling Tool. *Proceedings of PROCIEEM*, Orlando, Florida, October, 1989.
4. Papaconstantinou C, Doty KL, Navathe SB: Modeling Parts and Discrete Assembly Operations, Using an Object Oriented Data Model, *IEEE International Conference on Computer Software and Applications*, Orlando, Florida, September 1989.
5. Caselli S, Papaconstantinou C, Doty KL: Using Semantic Data Models in Knowledge-Based Manufacturing Workcell Design. *Proceedings of the 5th IEEE International Symposium on Intelligent Control*, Philadelphia, Pennsylvania, September 5-6, 1990.
6. Papaconstantinou CA, Gibby GL, Jackson KI, Gravenstein JS: Effectiveness of Selectable Text in the Physical Exam Portion of a Computerized Preanesthetic Evaluation, Abstracted. *Anesth Analg* 76:S320, 1993.
7. Papaconstantinou C, Anderson L, Rauscher R, Griffin C: Electronic Submission of Case Report Forms Using Secure World Wide Web Technology. *Proceedings of the Second Annual Florida Epidemiology Conference*, Tampa, Florida, July 1996.

Courses taught at GSU

Computer Architecture

<https://coursesearch.georgiasouthern.edu/details?term=202208&crn=85072>

Data Communications/Networking,

<https://coursesearch.georgiasouthern.edu/details?term=202208&crn=80647>

Computer Ethics,

<https://coursesearch.georgiasouthern.edu/details?term=202108&crn=80885>

Programming Principles II, using Java

<https://coursesearch.georgiasouthern.edu/details?term=202208&crn=82170>

IT Infrastructure,

<https://coursesearch.georgiasouthern.edu/details?term=202301&crn=12379>

Intro to IT,

<https://coursesearch.georgiasouthern.edu/details?term=202301&crn=10562>

Course Material covered:

Computer Architecture:

1. Understanding Binary Numbers + Boolean logic, Logic Gates
2. Boolean Algebra-Boolean Expressions-Combinational circuits
3. Karnaugh Maps
4. Latches, Flip-Flops
5. Sequential Circuits
6. Digital components
7. Data representation
8. 9. Microoperations
9. Basic Computer Design
10. Assembly Language
11. CPU
12. Pipelining
13. Cash
14. Virtual Memory
15. I/O

Data Communications/Networking:

1. Introduction -Layering, OSI and IP model stacks
2. Physical Layer
3. Link Layer
4. Network Layer
5. Transport Layer
6. Application Layer
7. Network Security

Computer Ethics:

1. Introduction to Morality
2. James Rest's Stages of Moral Decision Making
3. Kohlbergs Stages of Moral Development
4. Groupthink
5. ACM Code of Ethics
6. Intro to Privacy
7. Protecting Privacy
8. Personal-Consumer Information
9. Workplace Surveillance
10. Intercepting Communications
11. Intellectual Property Rights
12. Fair Use
13. E-Voting
14. Therac 25

15. Neo-Luddites
16. Spam and Internet Security Issues
17. Profiling Hackers
18. Ethics and AI
19. Virtual and Augmented Reality
20. Social Media
21. Addiction to Gaming
22. Are our devices spying on us?
23. Cyberbullying

IT Infrastructure:

1. Computer Hardware – PCs, Servers
2. Operating Systems
3. Virtualization – Cloud computing
4. LAMP
5. AMP on Windows
6. Networks
7. Security
8. Application Servers
9. Disaster Recovery
10. Management/Support
11. Service Delivery and Support-ITIL
12. Application development

Intro to IT: Material covered in this course:

1. Troubleshooting
2. History and Basics-Careers in IT
3. Understanding Binary Numbers
4. Boolean Logic, Boolean Expressions, Logic Gates
5. Data representation
6. Hardware-Software
7. Privacy
8. Security
9. Networking - IP addressing--DHCP
10. Virtual machines-Cloud computing
11. Operating Systems
12. Spreadsheet basics
13. Databases
14. Intro to WEB development (HTML, CSS, JavaScript)

Programming Principles II, using Java:

OO-approach-UML

Objects -Classes

Associations

Wrapper classes