PHILIP R. VENTURA, JR., PH.D.

Curriculum Vitae

Last updated: January 31, 2014

EDUCATION

Ph.D., Computer Science, 2004, University at Buffalo, SUNY

Dissertation:

Spring 2004 Spring 2005	Assistant Professor of Computer Science, Dept. of Computer Science, State University of West Georgia
Fall 2000 Fall 2003	Lecturer, Computer Science Dept. of Computer Science and Engineering, University at Buffalo.
August 2001	Instructor for New Horizons Introduction to Java Programming (industry training) course.
Summer 2000	Summer Lecturer, Computer Science Dept. of Computer Science and Engineering, University at Buffalo.
Summer 2000	Short Course (corporate training) Instructor, DuPont Java course
Spring 2000	Full-time Visiting Lecturer, Dept. of Computer Science and Engineering, University at Buffalo
Spring 1999 - Fall 1999	Part-time Visiting Lecturer, Dept. of Computer Science and Engineering, University at Buffalo
Summer 1999	Summer Lecturer, Dept. of Computer Science and Engineering, University at Buffalo
Spring 1999 - Summer 1999	Short Course (corporate training) Instructor, Dept. of Computer Science and Engineering, University at Buffalo
Fall 1997 - Fall 1998	Teaching Assistant, Dept. of Computer Science and Engineering, University at Buffalo
Summer 1998	Summer Lecturer, Dept. of Computer Science and Engineering, University at Buffalo

TEACHING

Palm Beach State College

Semester	*Course*	*Students*
Spring 2014	Microcomputer Applications (CGS1100) 3 sections (fully online)	108
	Intro to Programming Logic (COP1000) using Python media computation	24
	Introductory Programming in C (COP1220)	9
	Android Programming (COP2660)	16
	SQL (COP2700)	18
	Server-side Programming (COP2840)	4
Fall 2013	Microcomputer Applications (CGS1100) 5 sections	115
	Introductory Programming in C (COP1220)	23
	Android Programming (COP2660)	3

Broward College

Semester	*Course*	*Number of Students*
Summer 2013	Integrative Programming and Tech (COP4858) (hybrid online & fast track)	20
	IT Capstone (CIS4596) (hybrid online & fast track)	21
Spring 2013	Systems Integration & Architecture (CDA4411) (hybrid online & fast track)	13
	IT Capstone (CIS4596) (hybrid online & fast track)	24
	Systems Administration (CNT3604) (hybrid online & fast track)	29
	Intermediate C++ (COP1335) Independent Study	1
	Intro to Programming with Android (COP1661) (hybrid online & fast track)	26
	Database Concepts (COP3703) (hybrid online & fast track)	31
	Web Systems and Technologies (COP3847) (hybrid online & fast track)	21
Fall 2012	Systems Integration & Architecture (CDA4411) (hybrid online & fast track)	

Semester	***Course***	***Number of Students***
Summer 2012	Computer Literacy (CGS1060C) (fully online)	12
	Networking (CNT3504) (hybrid online & fast track)	11
	Systems Administration (CNT3604) (hybrid online & fast track)	20
	Intro to C++ (COP1334C) (fully online)	21

State University of West Georgia

Semester	*Course*	*Number of Students*
Spring 2005	Computers and Society (CS1020S01&S02)	467
	Introduction to Appl Software Dev II (CS3212)	20
Fall 2004	CS1 Studio (CS1301S03)	19
	Introduction to Appl Software Dev I (CS2311)	36
	CS6252 Web Technologies II	8
Spring 2004	CS1 Studio (CS1301S06)	30
	CS2 Studio (CS1302S02)	4
	Computing Capstone (CS4982)	8

University at Buffalo

Supervised

	Number of	*Supervised Teaching*

Produced various instructional videos posted both in BlackBoard/D2L and on YouTube on a variety of technical topics related to course instruction. The YouTube videos are beginning to gather a global following.

Developed the official course shells for a number of BAS IT classes, originally in BlackBoard and then converted them to D2L, including

- Web Systems and Technologies (COP3847)
- Information Assurance and Security (CIS4361)
- Information Systems Control (ISM3320)
- Integrative Programming Techniques (COP4858)
- Social and Professional Issues in IT (CIS4253)
- Systems Administration (CNT3604)

Developed official course shell for fully online Intro to C++ (COP1334C) class

Developed and taught pilot course in Android mobile application development, Intro to Programming with Android (COP1661)

Member of LEEO Project, a joint project among Broward College, Broward County schools and Citrix for technology education in middle and high schools

Served as member of search committees including: BAS Dean Search Committee, BAS Supervision and Management Faculty Committee, BAS IT Faculty Search

Served as Chair of the BAS IT/Computer Science Faculty Search Committee

Wrote the job ad for the BAS IT Faculty position

Served as faculty advisor for the Anime Club

Served on the SACS QEP Committee

Served as on the BAS Advisory Board

Served as member of the BAS IT/TM Textbook Committee

Led an initiative to modify pre-

Redeveloped CIS205: Microcomputer Applications curriculum to include more modern content including podcasting, photo manipulation, and digital video editing.
Developed (and taught)

- CIS140: Intro to Object-Oriented Design & Programming 1
- CIS141: Intro to Object-Oriented Design & Programming 2
- CIS320: Design and Implementation of 2D Games
- CIS321: Design and Implementation of 3D Games
- CIS370: Programming Paradigms
- CIS257A: Problem-

2003	Reviewer for 2004 ACM SIG Computer Science Education Conference.
	Reviewer for *Consortium for Computing in Small Colleges Eastern Division* (CCSCE) 2003 Conference
2002	Review of Tucker, A. & Noonan, R. *Programming Languages: Principles and Paradigms*. McGraw-Hill.
	Acknowledged review of Horstmann, C. (2003). *Object-Oriented Design and Patterns*. Wiley.
	Reviewer for 2003 ACM SIG Computer Science Education Conference.
	Reviewer for 7th Annual Conference on Innovation and Technology in Computer Science Education.
2001	Acknowledged review of Riley, D. (2002). *The Object of Java*. Addison-Wesley.

GRANTS

Title	Multiple Amazon AWS Education Grants
PI	Phil Ventura
Source	Amazon
Amount	$15,000

Title	Augmenting the St. Thomas University Digital Initiative
PI	Phil Ventura
Source	Robert M. Sullivan Award, St. Thomas University
Amount	$3,000
Term	6/1/07-5/30/08

Title	Investigation of Podcasting Technologies to Augment the Computing Classroom
PI	Phil Ventura
Source	Robert M. Sullivan Award, St. Thomas University
Amount	$3,200
Term	6/1/06-1/1/07

Title	Object-oriented programming with class
PIs	Phil Ventura and Carl Alphonce
Source	UB Educational Technologies
Amount	$6,400
Term	6/1/01-5/31/02

SUPERVISED STUDENTS

Dan Britt, Wes Fang, Rich Giomundo and Brooks Isoldi, undergraduates, working on enhancements to *QuickUML*

RESEARCH INTERESTS

Computer Science Education
Pedagogy of Object Orientation
Objects-first introductory CS curricula
Tools for supporting CS Education
Casual Education Games Design
Computing Technology in Education
Women in Technology & Science
Involvement of Undergraduates in CS Education

Presenter/Member, Organizing Committee for *2nd "Killer" Examples for Design Patterns and Objects First* held at OOPSLA 2003. Anaheim California.

Presenter/Member, Organizing Committee for *"Killer Examples" for Design Patterns and Objects First* held at OOPSLA 2002.

AWARDS

2013	Broward College Service Learning Award for creating IT Capstone experience which had students work on real-world projects for non-profit organizations in Broward County
2003	ACM SIGCSE03 Student Research Competition (Graduate division), third place, for dissertation work. One of 24 accepted to participate. Only finalist to be working in computer science education research.

PROJECTS

2002	**Office Hours Tracker** a Java-based application to track student usage patterns of office hours for both faculty and students for use in dissertation research. The data are stored in an Oracle database. (Java, SQL, Oracle)
2001	**CS1 Timesheet** A Perl CGI script allowing students to record time spent on their lab assignments. The data are used for various research purposes. (Perl, CGI)
2000	**Electronic Gradebook** A Perl CGI script that communicates with a Java backend to allow students to view their own grades securely in real-time. The Java backend reads directly from an Excel spreadsheet under revision control. The Electronic Gradebook is being used by several UB CSE faculty. (Perl, CGI, Java, RCS)
2000	**Zooming in on Technology**

NON-ACADEMIC EXPERIENCE

1997 **Summer Intern, Bethlehem Steel, Galvanized Products Division** developed Visual Basic applications to graphically display real-time information for line operators of -Decomposition algorithm in Vax Pascal for galvanizing line.

1997 **SportsTracker** Designed and implemented a Microsoft Access application for the managing of student sports data for a local school.