

ERNEST S. COLANTONIO

College of Earth, Ocean, and Atmospheric Sciences (CEOAS)
Oregon State University
104 CEOAS Administration Building
Corvallis, OR 97331-5503
541-737-7233
ernest.colantonio@oregonstate.edu

EXPERIENCE

Oregon State University, College of Earth, Ocean, and Atmospheric Sciences (CEOAS)

Senior Faculty Research Assistant I, July 1, 2018 to present

Faculty Research Assistant, March 22, 2011 to June 30, 2018

Administer the Apache web server that runs the CEOAS website. Develop and maintain the college's current responsive website and applications using HTML, CSS, Javascript, XML, PHP, and Bootstrap. Manage the MySQL database that stores information needed by the website. Establish the college's social media presence. Advise faculty and staff on setting up their own Wordpress sites for labs and research groups. Develop and maintain the system that pushes out information about the college to several monitor screens in five different buildings on campus. Research new and emerging technologies and their application to Earth system science.

Oregon State University, Graduate School

Information Technology Manager, June 23, 2008 to March 21, 2011

Maintained the Graduate School's web presence and services; created web applications in PHP/MySQL, including a new Graduate Faculty Database; supported the student information system (Banner SIS) and document imaging and workflow processing system (Nolij); developed data warehouse queries; identified innovative technological solutions for the leadership team.

Western Washington University, Academic Technology

Web Systems Analyst, November 27, 2006 to June 20, 2008

Researched, developed, deployed, and evaluated web technologies for the Integrated Laboratory Network (ILN) project, a National Science Foundation funded initiative with the objective of providing remote access to scientific instrumentation, expertise, and instructional materials.

University of Wisconsin-Madison, Waisman Center

Senior Information Manager, December 14, 2001 to November 24, 2006

Information Manager, November 1, 1994 to August 10, 2001

Developed and managed database and web applications for institute administrators, as well as providing technical support and programming for researchers.

Self-employed

Computer Textbook Author, May, 1987 to October, 1994

Wrote more than 10 introductory college textbooks on computers and applications.

University of Illinois at Urbana-Champaign, Department of Psychology

Research Associate, October, 1983 to April, 1987

Developed system and application software for psychology research projects.

Illinois State Geological Survey

Research Assistant, May, 1982 to October, 1983

Developed database and graphics software for oil, gas, and coal exploration.

University of Illinois at Urbana-Champaign, Department of Computer Science

Graduate Teaching Assistant, August, 1981 to December, 1982

Taught three introductory computer science courses for non-technical majors.

EDUCATION

University of Wisconsin-Madison

M.S. Computer Sciences, May, 1994

Database systems, programming languages, compiler construction, artificial intelligence

University of Wisconsin-Green Bay

Post-baccalaureate courses in math and computer science, September, 1989 to May, 1991

University of Illinois at Urbana-Champaign

Post-baccalaureate courses in computer science, August, 1981 to May, 1983

University of Illinois at Urbana-Champaign

B.S. Psychology, May, 1981

Dean's List last 5 semesters

TECHNICAL SKILLS

- Web development and programming (HTML/ XHTML, XML, CSS, PHP, JavaScript)
- Web server administration (Apache)
- Database design and implementation (MySQL, SQL Server, MS Access)
- Database programming (SQL, Transact-SQL, PHP/MySQL)
- Enterprise software (Banner Student, Noli Document Imaging & Workflow Processing)
- Operating systems (Windows, Mac OS, MS-DOS, Linux, OpenVMS)
- Software design and development
- Programming/scripting languages (PHP, C/C++/C#, VBScript, Visual Basic, Pascal, Fortran, 80x86 assembler, JavaScript, Perl, VMS DCL)
- Computer graphics
- Development of instructional materials
- Teaching application packages and programming in high-level and assembly languages

SELECTED PUBLICATIONS

- Colantonio, E. (2010).
Web-based Technologies for Online Labs. In D.A. Cancilla and S.P. Albon (Eds.),
*Moving the Laboratory Online: Situating the Online Laboratory Learning Experience for
Future Success* (pp. 23-235). Newburyport, MA: Sloan Consortium.
- Shiflet, A.B., Alex, C.F., Colantonio, E.S., and Ts'ao, H. (1995).
*Instructor's Manual to Accompany Problem Solving in C Including Breadth and
Laboratories*. Minneapolis/St. Paul, MN: West Publishing Company.
- Colantonio, E.S. (1992).
Microcomputer Concepts and Special Applications. Lexington, MA: D.C. Heath and
Company.
- Slotnick, D.L., Butterfield, E.M., Colantonio, E.S., Kopetzky, D.J., and Slotnick, J.K. (1990).
Computers and Applications with BASIC: Second Edition. Lexington, MA: D.C. Heath
and Company.
- Colantonio, E.S. (1989).
Microcomputers and Applications. Lexington, MA: D.C. Heath and Company.