

Ernest S. Colantonio

College of Earth, Ocean, and Atmospheric Sciences
Oregon State University
Corvallis, OR 97331-5503
541-737-7233
colantoe@coas.oregonstate.edu

EXPERIENCE

March 2011 – Present: Oregon State University, College of Earth, Ocean, and Atmospheric Sciences

Faculty Research Assistant

Conduct independent, original research on new and emerging technologies and their application to Earth system science. Develop and plan life-cycle projects. Design or enhance and implement enterprise-class web-based applications. Create effective and innovative solutions to meet scientific objectives. Compile and analyze project data.

June 2008 – March 2011: Oregon State University, Graduate School

Information Technology Manager

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.

Dec. 2006 – June 2008: Western Washington University, Academic Technology

Web Systems Analyst

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.

Dec. 2001 – Dec. 2006: University of Wisconsin-Madison, Waisman Center

Senior Information Manager

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

Nov. 1994 – Aug. 2001: University of Wisconsin-Madison, Waisman Center

Information Manager

Developed and managed database and web applications for researchers and administrators.

May 1987 – Oct. 1994: Self-employed

Computer Textbook Author

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

Oct. 1983 – Apr. 1987: University of Illinois at Urbana-Champaign, Department of Psychology

Research Associate

Developed system and application software for psychology research projects.

May 1982 – Oct 1983: Illinois State Geological Survey

Research Assistant

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

Aug. 1981 – Dec. 1982: University of Illinois at Urbana-Champaign, Department of Computer Science

Graduate Teaching Assistant

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

EDUCATION

Aug. 1992 - May 1994: University of Wisconsin-Madison

M.S. Computer Sciences

Database systems, programming languages, compiler construction, artificial intelligence

Sep. 1989 - May 1991: University of Wisconsin-Green Bay

Post-baccalaureate courses in math and computer science

Aug. 1981 - May 1983: University of Illinois at Urbana-Champaign

Post-baccalaureate courses in computer science

Aug. 1977 - May 1981: University of Illinois at Urbana-Champaign

B.S. Psychology

Dean's List last 5 semesters

TECHNICAL SKILLS

- Web development and programming (HTML/ XHTML, XML, CSS, PHP, ASP.NET, JavaScript)
- Web database connectivity (MySQL, MS SQL Server, MS Access, ODBC)
- Web server administration (MS IIS, Apache)
- Database design and implementation (MySQL, MS SQL Server, MS Access, Paradox, FoxPro)
- Database programming (SQL, Transact-SQL, PHP/MySQL, MS Access Visual Basic, ObjectPAL)
- Enterprise software (STC Banner Student, Noli Document Imaging & Workflow Processing, BIQuery)
- Operating systems (Windows, MS-DOS, Unix, 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., Allex, 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.