

OREGON STATE UNIVERSITY  
College of Earth, Ocean, and Atmospheric Sciences

**ERNEST S. COLANTONIO**

Senior Faculty Research Assistant I  
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**EDUCATION**

M.S., Computer Sciences, University of Wisconsin-Madison, 1994  
B.S., Psychology, University of Illinois at Urbana-Champaign, 1981

**WORK EXPERIENCE**

Senior Faculty Research Assistant I, College of Earth, Ocean, and Atmospheric Sciences,  
Oregon State University, Corvallis, OR, 2018-present

- Research new technologies and their application to Earth system science.
- Design, plan, develop, and implement new web projects.
- Enhance existing websites and applications.
- Manage email lists and newsletter campaigns.
- Contribute to the college's social media presence.
- Maintain websites for major affiliated projects (Regional Class Research Vessel; Ship Operations; COLDEX – Center for Oldest Ice Exploration; Cascadia CoPes Hub; PacWave; Oregon Climate Change Research Institute; Oregon Climate Service; Cooperative Institute for Climate, Ocean, and Ecosystems Studies; Ocean Observatories Initiative)

Faculty Research Assistant, College of Earth, Ocean, and Atmospheric Sciences, Oregon State  
University, Corvallis, OR, 2011-2018

Information Technology Manager, Graduate School, Oregon State University, Corvallis, OR,  
2008-2011

- Maintained the Graduate School's web presence and services.
- Created new web applications.
- Supported student information and document imaging systems.
- Wrote data warehouse queries.

Web Systems Analyst, Academic Technology, Western Washington University, Bellingham,  
WA, 2006-2008

- Researched and developed web technologies for the Integrated Laboratory Network project, a National Science Foundation funded initiative to provide remote access to scientific instruments.

Senior Information Manager, Waisman Center, University of Wisconsin-Madison, Madison, WI,  
2001-2006

- Developed database and web applications.
- Provided technical support and programming.

Information Manager, Waisman Center, University of Wisconsin-Madison, Madison, WI,  
1994-2001

Computer textbook author, self-employed, 1987-1994

- Wrote more than ten introductory college textbooks on computers and applications.

Research Associate, Department of Psychology, University of Illinois at Urbana-Champaign, Urbana, IL, 1983-1987

- Developed system and application software for psychology research projects.

Research Assistant, Illinois State Geological Survey, Champaign, IL, 1982-1983

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

Graduate Teaching Assistant, Department of Computer Science, University of Illinois at Urbana-Champaign, Urbana, IL, 1981-1982

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

## TECHNICAL SKILLS

- High-level web development (Drupal, WordPress, Squarespace)
- Low-level web development (HTML, CSS, PHP, JavaScript, Bootstrap)
- Newsletter design and email list management (Mailchimp, GNU Mailman)
- Social media account management (LinkedIn, Instagram, YouTube)
- Graphics editing and asset management (Photoshop, Bridge)
- Google Analytics and Google Maps Platform API
- Web server administration (Apache)
- Database design, implementation, and programming (SQL, PHP/MySQL)
- Enterprise software (Banner Student, Noli Document Imaging & Workflow Processing)
- Operating systems (Windows, Mac OS, Unix/Linux, OpenVMS, MS-DOS)
- Programming/scripting languages (PHP, C/C++, Pascal, Basic, Fortran, 80x86 assembler)

## PROFESSIONAL ACTIVITIES

### Select 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.

### Presentations

- Using WordPress to Build Your Online Presence, November 2020
- Using WordPress to Build Your Online Presence, February 2020
- Developing Your Web Presence, November 2018

### **Professional Development**

- Social Justice Education Initiative Tier 2 Next Level, “Implicit Bias,” March 2022
- Social Justice Education Initiative Tier 2 Next Level, “Microaggressions,” January 2022
- Social Justice Education Initiative Tier 2 Next Level, “Being Good,” November 2021
- Monsido Web Accessibility Training, February 2021
- HighEdWeb Annual Conference in Milwaukee, WI, October 2019
- Social Justice Education Initiative Sessions 1 and 2, May 2018
- Conversational Skills, April 2015
- Journey into Leadership, March 2013
- Accessibility Basics for the Web Workshop, November 2012

### **SERVICE**

Oregon State University, College of Earth, Ocean and Atmospheric Sciences  
Science Communicator search committee, December 2016-March 2017

Oregon State University, College of Earth, Ocean and Atmospheric Sciences  
Floor Monitor, Burt Hall first floor, February 2015-present

### **AWARDS**

Oregon State University, College of Earth, Ocean and Atmospheric Sciences  
Outstanding Faculty Research Assistant, June 2021