

Curriculum Vita

Laurie J. Patterson

October, 2011

Professional:

601 South College Road
Wilmington NC 28403
910.962.3906

pattersonl@uncw.edu

Education

- Nova Southeastern University, Ed.D. in Computing and Information Technology, Programs in Higher Education, 2005 (*Concentration in Computer Education*)
- University of Minnesota, M.Ed. in Computer Training and Development, 1996
- University of Minnesota, B.A. in Biology, 1985
- University of Minnesota, A.L.A., 1982

Teaching Appointments

- Associate Professor, University of North Carolina Wilmington, 2010 –
- Assistant Professor, University of North Carolina Wilmington, 2005 – 2010
- Instructor, University of North Carolina Wilmington, 2003 – 2004
- Lecturer, University of North Carolina Wilmington, 1998 – 2003
- Instructor, Cape Fear Community College, 1996 – 1998
- Technical Trainer, Personnel Decisions International Corporation, 1995 – 1998
- Independent Computer Consultant, Metropolitan State University, 1995
- Technical Consultant, Baylor College of Medicine, 1994 – 1995

Administrative Appointments

- Coordinator, Information Technology Minor, Department of Computer Science, University of North Carolina Wilmington, 2005 –
- Transfer Adviser, Department of Computer Science, University of North Carolina Wilmington, 2002 – 2005
- Assistant Chair, Department of Computer Science, University of North Carolina Wilmington, 2002 – 2005
- Coordinator, Computer Science Minor, Department of Computer Science, University of North Carolina Wilmington, 2002-2005
- Webmaster, Department of Computer Science, University of North Carolina Wilmington, 1999 – 2005
- Adviser, University of North Carolina Wilmington, Department of Computer Science, 1998 –

- Independent Consultant/Administrator, Metropolitan State University, College of Arts and Sciences, 1995
- Lab Administrator, Baylor College of Medicine, Medical Informatics Education Center, 1994 – 1995
- Associate Administrator, University of Minnesota, Department of English, 1987 – 1994
- Office Manager, University of Minnesota, Institute of Technology Lower Division Programs, 1986 – 1987
- Office Manager, University of Minnesota, General College Student Support Services, 1985 – 1986

Honors and Awards

- Recognized by graduating seniors for making a difference: Spring 2011, Fall 2010, Fall 2009, Fall 2008, Spring 2006, Fall 2005, Spring 2005, Spring 2004
- Nominated for “Outstanding Practicum” in Computer Information Technology, Nova Southeastern University, 2004
- Upsilon Pi Epsilon
- Greek Community Award for Outstanding Faculty Member, University of North Carolina Wilmington, 2000
- Honors and International House Favorite Faculty Member, University of North Carolina Wilmington, 1999
- Recommended by Department of Computer Science Chair for the University of North Carolina Board of Governors’ Doctoral Study Assignment Program, 1999

Publications

- Patterson, L.J. (*in progress*). “Text Interpretation and Happiness?”
- Patterson, L.J. & Vetter, R.J. (*in progress*). “Use of Text Messaging as a Teaching/Learning Tool in a Computer Science Classroom.”
- Patterson, L.J. (*in progress*). “Student Perceptions of Teaching: Faculty Evaluation by Non-Majors in a Computer Science Concepts Course.”
- Patterson, L.J. (*in progress*). “Comparison of Ease of Learning: Is Microsoft Office Suite ’07/10 actually easier to learn than ’03?.” (Including a gender comparison to the previous study.
- Patterson, L.J., Janicki, T., Matthews, K., He, L. Submitted to *Journal of Information Systems Education*, 2011. “Implementation of a Grading System with an Adaptive Learning Component to Increase Student Feedback and Reduce Feedback Response Time.” (*submitted*)
- *The Songs of Hollywood*, Oxford University Press. 2010. With Philip Furia, UNCW. pp. 300.
- Patterson, L. J.; Vetter, R. J.; Janicki, T.; & Reinicke, B. (2009). “Majoring in a Virtual Environment: Merging CS and IS into IT,” in *The Proceedings of The 2009 World Congress in Computer Science, Computer Engineering, and Applied*

- Computing: The 2009 International Conference on Frontiers in Education: Computer Science and Computer Engineering*, Las Vegas NV, July 2009, (refereed).
- Patterson, L. J. (2008). "General Software Competency: Is There Still a Need for Software Training?," in the Proceedings of *The 2008 World Congress in Computer Science, Computer Engineering, and Applied Computing: The 2008 International Conference on Frontiers in Education: Computer Science and Computer Engineering*, Las Vegas NV, July 2008, (refereed).
 - Patterson, L. J. (2008), Instructional PowerPoint Slides for "Starting Out with Alice: A Visual Introduction to Programming," by Tony Gaddis. Pearson Publishing. (invited).
 - Patterson, L. J. (2007). "Color/Font/Text Size: Developing Standards for Video Podcasts." Poster Presentation at the Association for Computing Machinery's SIGITE 2007 Conference, October 2007. (refereed).
 - Patterson, L. J. (2007). "General Computer Application Knowledge: Is There a Difference Between the Genders?," in *The Proceedings of The 2007 World Congress in Computer Science, Computer Engineering, and Applied Computing: The 2007 International Conference on Frontiers in Education: Computer Science and Computer Engineering*, Las Vegas NV, June 2007, (refereed).
 - Patterson, L. J. (Fall, 2007), "Alice in UNCWland: Using Alice to Motivate and Engage Beginning Programmers," *the loop: CS Education News You Can Use*, Issue 3, pp 8 (<http://www.aw-bc.com/info/loop/pdf/Loop3.pdf>) (invited).
 - Patterson, L. J. (2006, October). "How Things Work: The Technology Underlying Podcasts." *IEEE Computer*, Vol. 39, No. 10, pp 103-105.
 - Patterson, L. J. (2006). "Student Response Systems and Gender: An Evaluation of Its Success," in the *Proceedings of The 2006 World Congress in Computer Science, Computer Engineering, and Applied Computing: The 2006 International Conference on Frontiers in Education: Computer Science and Computer Engineering*, Las Vegas NV, June 2006, 104-110 (refereed).
 - Patterson, L. J. (2006), "Evaluation of the Success of a Student Response System In a Computer Concepts Course," in the *Proceedings of the 2006 ASCUE Summer Conference: Maximizing Technology to Enhance Learning*, Myrtle Beach SC, June 2006, 155-164 (reviewed).
 - Patterson, L. J. (2005). "Reaching a New Audience: Development of a Computer-Centric Minor" in the *Proceedings of the 2005 ASCUE Summer Conference: Campus Technology: Anticipating the Future*, North Myrtle Beach SC, June 2005, 197-206 (reviewed).
 - Patterson, L. J. (2005). *Development of an Interdisciplinary Information Technology Minor*. Doctoral Dissertation for Nova Southeastern University.
 - Patterson, L. J. (2004). *An Evaluation of the Reasons why Female Students Withdraw from the Computer Science Program at the University of North Carolina Wilmington* (nominated for "Outstanding Practicum" in Computer Information Technology at Nova Southeastern University).
 - Patterson, L. J., & Trasti, J. L. S. (2004). "Women students in computer science: Student perspectives of faculty bias as a possible influence on student retention." In J. Sawyers (Ed.), *Mid Atlantic Conference on the Scholarship of Diversity*. Blacksburg, VA: Virginia Polytechnic Institute and State University.

- Referenced in *Computing Research News: A Publication of the Computing Research Association*, March 2007 (Vol. 19/ No. 2).
- Referenced in *Reconstructing the Fables: Women on the Educational Cyberfrontier*, Springer Netherlands, 2006.
- Referenced in *Alice and Robotics in Introductory CS Courses*, April 2009, TAPIA '09: The Richard Tapia Celebration of Diversity in Computing Conference: Intellect, Initiatives, Insight, and Innovations.
- Referenced in *PREOP (Providing Robotic Experiences Through Object-Based Programming)*, Alice Symposium 2009 at Duke University, Durham NC.
- Patterson, L. J. (2003). *The Development of a Revised Introductory Course in Computing at the University of North Carolina Wilmington*.
- Patterson, L. J. (2002). *Comparison of Final Grades of Courses Taught in Both a Traditional Classroom Format and a Distance-Education Format at the University of North Carolina Wilmington*.
- Patterson, L. J. (2000). Photo for H. G. Wildlife Area (Osage). [Online, "Here Lived Hamlin Garland"]. Available: <http://www.usc.edu/isd/locations/ssh/special/garland/hglivedhere.html>.
- Patterson, L. J. (2000). *CSC 105: Applications and Assignments*, (Wilmington NC: University of North Carolina Wilmington), 88 pp.
- Patterson, L. J. (1996). *MIS Training Manual*, (Minneapolis MN: Personnel Decisions International Corporation), 200 pp. (Revised, 1997)
- Patterson, L. J. (1996). *Microsoft Windows Training*, (Minneapolis MN: Personnel Decisions International Corporation), 43 pp.
- Patterson, L. J. (1996). *Microsoft PowerPoint*, (Minneapolis MN: Personnel Decisions International Corporation), 25 pp.
- Patterson, L. J. (1996). *Microsoft Schedule+ Basic Concepts Training*, (Minneapolis MN: Personnel Decisions International Corporation), 21 pp.
- Patterson, L. J. (1996). *Computer Startup Training*, (Minneapolis MN: Personnel Decisions International Corporation), 14 pp.
- Patterson, L. J. (1996). *Microsoft Mail Basic Concepts Training*, (Minneapolis MN: Personnel Decisions International Corporation), 21 pp.
- Patterson, L. J. (1996). *Proposal Template Basic Concepts Documentation*, (Minneapolis MN: Personnel Decisions International Corporation), 42 pp.
- Patterson, L. J. (1994). *Electronic Communication Training Manual for the Mac: Eudora, InterNews, and TexSearch/Medline*, (Houston TX: Medical Informatics Education Center, Baylor College of Medicine), 30 pp.
- Patterson, L. J. (1994). *Electronic Communication Training Manual for the PC: Eudora, WinTrumpet, and TexSearch/Medline*, (Houston TX: Medical Informatics Education Center, Baylor College of Medicine), 46 pp.
- Patterson, L. J. (1994). *E-Mail and Newsgroups via Modem*, (Houston TX: Medical Informatics Education Center, Baylor College of Medicine), 12 pp.
- Patterson, L. J. (1994). *Reference Manager Training Manual*, (Houston TX: Medical Informatics Education Center, Baylor College of Medicine), 31 pp.

Grants

- NSF Workshop Grant. August 2009. Teaching Digital Sound from Top to Bottom. Wake Forest University, Winston-Salem NC.
- Professional Development to Collaboratively Improve a Diverse School with Video Podcasts. In Progress. With Deborah Powell, Heidi Higgins, and Diane Calhoun, Watson School of Education, University of North Carolina Wilmington.
- NSF Workshop Grant. January 2009. Teaching with Alice 3.0. Carnegie Mellon University, Pittsburgh PA.
- Mathematics Science Partnership Grant Application, US Department of Education/North Carolina State Board of Education. Facilitator. 2007 - 2010.
- NSF (NSF-0339734) Workshop Grant. June 2006. Learning to Program with Alice A Workshop on Teaching Alice. Duke University, Durham NC.
- Introducing Programming to Middle School Students through the Development of a Summer Camp, UNCW Information Technology Systems Division IT Innovations Awards, with M. Ferner. Award for \$3000. Summer, 2008.
- Use of ALICE to Introduce Programming to Female Students, UNCW Information Technology Systems Division IT Innovations Awards, with M. Ferner. Award for \$3225. Summer, 2006.
- Investigating Innovative Applications of Blogs and Podcasts in University Environments, UNCW Information Technology Systems Division IT Innovations Awards, with R. Vetter. Award for \$4485. Summer, 2006.
- The Application of BLogs, RSS Feeds, and Podcasts to Online Instruction and Curriculum Development, UNCW CTE Summer Curriculum Initiative, with R. Vetter. Award for \$3,000. Summer, 2006.
- NSF Workshop Grant. April 2006. Broadening Participation in Computing. Hosted by NSF, Atlanta GA.
- NSF (CCLI-0340969) Workshop Grant. June 2005. Digital Multimedia. Wake Forest University Department of Computer Science.
- Teaching Introduction to Computing and Computer Applications in a Modular Format, UNCW CAS Summer Curriculum Initiative, with R. Vetter. Award for \$3,000. Summer, 2002.
- Center for Teaching Excellence. Award for \$300. Summer Camp 2002.
- Dean's Grant, Purchase of software for skill assessment testing, Summer 2001. Award for \$5,000.

Professional Organizations

- BRIDGES: Academic Leadership for Women
- Women Administrators in North Carolina Higher Education (WANCHE)
- American Association of University Women
- American Society for Training and Development
- Association for Computing Machinery
- Association for Educational Communications and Technology
- Association of Small Computer Users in Education

- Association of Women in Computing
- Computer Science Teachers Association
- IEEE
 - IEEE Women in Engineering
- LABMGR Listserv
- National Center for Women and Information Technology
- Society for Applied Learning Technology
- Upsilon Pi Epsilon

Professional Activities

- Participant in BRIDGES XV (2007)
Professional development program for women,
hosted by UNC
- BRIDGES Advisory Board
 - Bridges Alumnae Subgroup Volunteer, 2010 –
 - Executive Board 2011 – 2013
 - Session Chair, 2011
- Reviewer for ITiCSE, 2004 -
- Reviewer for SIGCSE, 2003 -
 - Requested to perform double reviews 2005
- Editorial Reviewer for Course Technology
- Editorial Reviewer for Addison Wesley Publishing Company
- Editorial Reviewer for McGraw Hill
- Editorial Reviewer for Scott/Jones Publishers
- Editorial Reviewer for Pearson (Prentice Hall)

Invited Presentations

- October 2011, “Songs of Hollywood,” Board of Visitors Meeting, University of North Carolina Wilmington (with Philip Furia).
- July 2009, “Majoring in a Virtual Environment: Merging CS and IS into IT,” in *The Proceedings of The 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing: The 2009 International Conference on Frontiers in Education: Computer Science and Computer Engineering*, Las Vegas NV. (co-authored with Vetter, R. J.; Janicki, T.; & Reinicke, B.).
- April 2009, “Faculty Showcase: Diversity and Technology,” with Deborah Powell, Heidi Higgins, and Diane Calhoun. Watson School of Education Faculty Showcase, Wilmington NC.
- March 2009, “Alice 3 and NetBeans,” IT Night Technology Showcase 2009, Wilmington NC.
- July 2008, “General Software Competency: Is There Still a Need for Software Training?,” in the *Proceedings of The 2008 World Congress in Computer Science, Computer Engineering, and Applied Computing: The 2008 International Conference*

on Frontiers in Education: Computer Science and Computer Engineering, Las Vegas NV.

- June 2008, "Blogs in the Classroom." Watson School of Education, Wilmington NC.
- March 2008, "Alice: A Fresh Approach to Teaching Programming," with Marni Ferner. InterACT Technology Showcase 2008, Wilmington NC.
- October 2007, "Color/Font/Text Size: Developing Standards for Video Podcasts." Poster Presentation at the Association for Computing Machinery's SIGITE 2007 Conference, Sandestin FL.
- June 2007, "General Computer Application Knowledge: Is There a Difference Between the Genders?," in *The Proceedings of The 2007 World Congress in Computer Science, Computer Engineering, and Applied Computing: The 2007 International Conference on Frontiers in Education: Computer Science and Computer Engineering*, Las Vegas NV.
- March 2007, "Alice: A Fresh Approach to Teaching Programming," with Marni Ferner. INTERACT Technology Showcase 2007, Wilmington NC.
- March 2007, "Innovative Applications of Blogs and Podcasts in University Environments," with Ron Vetter. INTERACT Technology Showcase 2007, Wilmington NC.
- June 2006, "Student Response Systems and Gender: An Evaluation of Its Success," The 2006 International Conference on Frontiers in Education: Computer Science and Computer Engineering, Las Vegas NV.
- June 2006, "Evaluation of the Success of a Student Response System In a Computer Concepts Course," Association for Small Computer Users in Education, North Myrtle Beach SC.
- May 2006, "Fascinating Rhythm," Piccolo Spoleto, Charleston SC.
- March 2006, "Alice: A Fresh Approach to Teaching Programming," with Marni Ferner. INTERACT Technology Showcase 2006, Wilmington NC.
- June 2005, "Reaching a New Audience: Development of an Information Technology Minor," Association for Small Computer Users in Education, North Myrtle Beach SC.
- June 2005, "I Get a Kick out of Cole Porter," WHQR Fund Raiser, Wilmington NC.
- June 2004, "Fascinating Rhythm," WHQR Fund Raiser, Wilmington NC.
- March 2004, "Women Students in Computer Science: Student Perspective of Faculty Bias as a Possible Influence to Student Retention," Mid-Atlantic Conference on the Scholarship of Diversity. With Jennifer Trasti.
- May 2003, "The Songs of Hollywood," WHQR Fund Raiser, Wilmington NC.
- April 2002, "Creating Surveys On-line," Nova Southeastern University, Friday sessions for PHE students.
- February 2001, "Creating Templates for Academic and Scholarly Use," Nova Southeastern University, Friday sessions for PHE students.
- July 1999, "Creating Forms on the Internet," Nova Southeastern University, Summer Institute for ITDE students.

Invited Participations

- October 2011, Panel Reviewer for National Science Foundation Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs, Washington DC.
- April 2009, Panel Reviewer for National Science Foundation Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs, Level II, Washington DC.
- March 2009, Panel Reviewer for National Science Foundation Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs, Washington DC.
- September 2008, Panel Reviewer for National Science Foundation Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs, Washington DC.
- February 2008, Panel Reviewer for National Science Foundation Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs, Washington DC.
- September 2007, Panel Reviewer for National Science Foundation Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs, Washington DC.
- September 2006, Panel Reviewer for National Science Foundation Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs, Washington DC.
- August 2006, “Women in Science and Technology,” Science, Humanities, and Society Faculty Panel on “Should We Panic? Science Education in the US.”
- October 2005, “Women in Computing,” Beijing Normal University. Invited by the Association for Women in Computing.
- January 2005, “Microsoft Academic Days,” sponsored by Microsoft.
- April 2004, “Regional Leadership Forum For Women Administrators,” sponsored by American Council on Education Office of Women in Higher Education and the University of South Carolina Spartanburg.
- March 2004, “Women in Underrepresented Fields,” Women in Leadership Panel, University of North Carolina Wilmington.
- March 2002, “Windows XP,” McGraw-Hill Focus Group, Greensboro, NC.
- April 2001, “Prentice Hall Information Technology Symposium,” Prentice Hall, Atlanta, GA.
- October 2000, “Windows XP,” McGraw-Hill Focus Group, Greensboro, NC.

University Committees

- Faculty Senate, University of North Carolina Wilmington (2009 - 2011).
- Student Organizations Committee, University of North Carolina Wilmington (2006 - 2009).
- Senate Information Technology Committee, University of North Carolina Wilmington (2006 -).

- Committee Chair (2007 - 2010)
- Calendar Committee, University of North Carolina Wilmington (2002 – 2005)
 - Committee Chair (2003 - 2004)
- Division of Public Service and Extended Education Advisory Committee, University of North Carolina Wilmington (1999 - 2002)

Service

- Faculty Adviser, Women in Science and Engineering (WiSE), University of North Carolina Wilmington (2008 - 2011)
- WebMaster, The Parenting Place of the Exchange Clubs of Wilmington NC (2002 – 2007).
- Women in Leadership Mentor Program (2001 – 2007).
- WebMaster, Department of Computer Science, University of North Carolina Wilmington (1999 – 2005).
- WebMaster, Richmond Cluster, Programs in Higher Education and Leadership, Nova Southeastern University (1999 – 2004).
- Webpage Development and Assistance, Program in Film Studies, University of North Carolina Wilmington (2000 – 2001).
- Newsletter Assistance, Program in Film Studies, University of North Carolina Wilmington (2000 – 2001).
- Newsletter Editor, Department of Computer Science, University of North Carolina Wilmington, (1999 – 2005).
- DREAMS of Wilmington (1996 – 1997).
 - Committee Secretary (1996-1997).

Courses Taught UNCW

- Introduction to Computing and Computer Applications
- Introduction to Computing and Computer Applications (Technology College)
- Fluency in Information Technology
- Introduction to Computer Programming
 - Alice
 - Flash
- Introduction to Computer Science I
- Introduction to Computer Science II
- Multimedia Systems (204)
- Multimedia Systems (304)
- Professional and Ethical Issues in Computer Science
- Seminar in Computer Science
- Alice for Middle Schoolers (summer camp)

Individualized Study Courses Taught at UNCW

- Directed Individual Study

- Flash Animation with Action Scripting
- Digital Multimedia
- Technology Seminar, Technology College, University of North Carolina Wilmington

Courses Taught Cape Fear Community College

- Introduction to the Internet
- Introduction to Microsoft Excel
- Introduction to Microsoft Word
- Introduction to Microsoft Windows

Continuing Education Units

- Developing An Effective Assessment Program For Student Educational Outcomes, SIGCSE Conference, Dallas TX, March 2011.
- An Audacious iPhone Workshop, SIGCSE Conference, Milwaukee WI, March 2010.
- Creating Mobile Phone Applications with App Inventor for Android, SIGCSE Conference, Milwaukee WI, March 2010.
- Teaching Java Through Alice and Greenfoot, FECS Conference, Las Vegas NV, July 2009.
- Using Tablet PCs for Active Learning in the CS Classroom, SIGCSE Conference, Portland OR, March 2008.
- BlueJ/Greenfoot Day, SIGCSE Conference, Portland OR, March 2008.
- Creating Podcasts with Vegas Movie Studio, ASCUE Conference, Myrtle Beach SC, June 2007.
- Introducing Pair Programming into Your Classroom, SIGCSE Conference, Covington KY, March 2007.
- Teaching with Alice and Media Computation, SIGCSE Conference, Covington KY, March 2007.
- Alice: Using Animation to Teach Introductory Programming, FECS Conference, Las Vegas NV, June 2006.
- Wikis, and Podcasts, and Blogs, Oh My! (Integrating new technologies for classroom instruction, ASCUE Conference, Myrtle Beach SC, June 2006.
- Teaching and Strategies for Teaching with Alice, SIGCSE Conference, Houston TX, March 2006.
- Learning to Program with Alice, SIGCSE Conference, Houston TX, March 2006.
- Easy Web Video with Flash Pro 8 and Dreamweaver 8, Macromedia Online, December 2005.
- Not Just a Flash in the Pan: Making Interactive Learning Objects with Macromedia Flash, ASCUE Conference, June 2005.
- Web Animation and Flash, Cape Fear Community College, Wilmington NC, October 2002.
- Introduction to Visual Basic 6.0, Cape Fear Community College, Wilmington NC, June – July 2002.

- Java Programming for the Web, Cape Fear Community College, Wilmington NC, February – March 2002.
- Computer Network Basics: What Every Professor Should Know, SIGCSE Conference, Covington KY, March 2002.
- Delivering Dynamic Web Content Through Active Server Pages and Database Technology, ASCUE Conference, Myrtle Beach SC, June 1999.

Research Interests

- Women in Computer Science
- Training and Development using Computer Applications
- Computing and Information Technology
- Web-based Learning
- Computer Education

Languages

- Visual Basic
- Authorware
- Flash
- Action Script
- Alice
- JavaScript
- Java