

# R. David Lewis, PhD

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## Education

### **Doctorate of Philosophy (PhD) Curriculum & Instruction - Instructional Technology (2008)**

*University of South Florida (USF)*

### **Master of Arts in Library and Information Science**

*University of South Florida (USF)*

### **Master of Arts in Educational Technology**

*San Diego State University (SDSU)*

### **Bachelor of Science in Biology**

*University of South Alabama (USA)*

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## Research

Instructional Design, ADDIE, ISD, HPT, Procedural Learning, Cognitive Load, ADHD, Quality Matters Certified

**Dissertation Title:** *The Acquisition of Procedural Skills: An Analysis of the*

*Worked-Example Effect Using Animated Demonstrations*

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## Technical Proficiency

**Web Programming:** DreamWeaver, WordPress HTML5, CSS3, JavaScript, JQuery, AJAX, XML, RSS, Perl, CGI

**Graphics/Multimedia:** Adobe CS 6.5 (Photoshop, Flash), Articulate, Articulate Storyline, Adobe Presenter

**Audio/Video:** Adobe Premiere, Final Cut Pro, Apple Motion, After Effects, Camtasia, Audition, Audacity

**LMS, SIS:** Blackboard 9.1, Collaborate, D2L, WebCT 3.8-CE6, Canvas, Moodle, Success Factors, Banner/Tableau

**Hardware:** Tricaster (Video switcher), Teleprompter, Lecture Capture, Echo 360, DSLR cameras, H.323, Crestron

**Other:** Mac, PC, iOS, Linux, MS Office, iTunesU, Respondus, Lockdown, StudyMate, Turnitin, SafeAssign, Clickers

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## Professional Experience

### **Sr. Programs Manager**

Dermatology & Cutaneous Surgery, Miller School of Medicine

University of Miami

Summer 2016-present

- led design, development and administration of the Master of Science (MSc.) in Skin Biology and Dermatological Sciences;
- designed and developed the online course materials;
- managed SACS accreditation.

### **Senior Instructional Designer**

School of Business Administration

University of Miami

Spring 2015-Summer 2016

- Supported the design and developed online course components for two hybrid MBA degree programs;
- Instrumental in the development of the University of Miami Public Health Business Fundamental Certificate Programs, a \$1.6M funded grant by the de Beaumont foundation;
- Coordinated SACS and AACSB accreditation for the School of Business;
- Saved the SBA \$80,000 by developing WebOS cooperative with College of Engineering.

### **Associate Director**

Academic Technology Center, University of West Florida

Spring 2014 – Spring 2015

- Supported and developed new fully-online courses and e-learning degree programs;
- Promoted continuous course improvement by supporting Quality Matters Reviews;

### **Instructional Technology Officer**

*National Science Foundation, Arlington, VA*

*Jan 2013 – Jan 2014*

- Led multiple Government contractor groups (*FAC-COR Level II certified*):
  - LMS team—LMS on site administrator/offsite team
  - Online Course team – led Instructional Designers, Web Programmers, Graphic artists, Videographers, and Student assistants
  - Lecture Capture team – recorded and posted multiple distinguished lectures
  - Learning Center management - Project leader for Instructor- Led and Online courses

### **ITDE Program Professor**

*Instructional Technology and Distance Education (ITDE) Program*

*Nova Southeastern University (NSU), Miami, FL*

*Fall 2010 – Fall 2012*

- Supervised doctoral dissertation research, both as chair and committee member;
- Maintained an active research, publication and presentation agenda;
- Taught graduate level courses:
  - EDD 8001 Instructional Design;
  - EDD 8006 Systems Analysis and Design;
  - EDD 8121 Advanced Instructional Design;
  - EDD 8124 Theories of Learning
- Served on University, School, & Program-level committees:  
(Doctoral Curriculum Committee, NSU Summer Conference Committee, GTEP, NCATE)

### **Assistant Program Director (Instructional Technology Program) (IPA)**

*National Science Foundation (NSF), Arlington, VA*

*2009- 2010*

- Led a team of contractors (Instructional Designers, Developers & Trainers) to design, develop, and implement NSF instructional materials for online, face-to-face and blended courses;
- Managed technology budget, training/staffing/hiring & project management of contractors;
- Coordinated NSF's e-business online courses & classroom-based training;
- Served on the FutureNSF Committee.

### **Instructional Designer**

*University of South Florida, College of Public Health, Tampa, FL*

*2007- 2009*

- Designed and developed e-learning courses and programs using Blackboard, Articulate, Premiere;
- Developed a cross disciplinary course for the College of Medicine;
- Developed "COPH Minimum Online Course Standards" (with Quality Matters & SREB Standards).

### **Instructional Designer**

*Florida International University, University Technology Services, Miami, FL*

*2004 - 2007*

- Supported the design and development of distance learning courses and programs;
- Faculty online course support (individual and group consultation);
- Served as WebCT server administrative support (WebCT 3.8-CE6/Vista);

### **Research Associate II**

*University of Miami, School of Education, Miami, FL*

*2003 - 2004*

- Served as NCATE Coordinator;
- Served as LiveText Coordinator (e-portfolio system);
- Coordinated the design & development of the NCATE report & website.

### **Coordinator of Information and Publication Services (Network Administrator)**

University of South Florida, Student Affairs, Tampa, FL

1999 - 2003

- Network Administrator for 7 dept including Vice President's office (supported file and web servers);
- Established and maintained USF Student Affairs web site;
- Coordinated 23 departmental webmasters;
- Coordinated USF SACS accreditation committee & website.

### **Instructional Designer**

University of South Florida, Educational Outreach, Tampa, FL

1998 -1999

- Taught faculty to design, develop, and implement web-based course materials using WebCT
- Implement several WebCT faculty workshops & week-long summer institutes.

### **Webmaster**

Grossmont Community College, El Cajon, CA

1995 - 1996

- Established and maintained college's first web site - <http://www.grossmont.edu/>
- Taught faculty development workshop series (HTML, WWW, Email).

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### **Peer Reviewed Publications**

Brown, V., **Lewis, D.**, Toussaint, M., & Murtaugh, M. (in press). The Redundancy Effect on Retention and Transfer for Individuals with High Symptoms of ADHD. *Journal of the American Academy of Special Education Professionals*

**Lewis, D.**, & Slapak-Barski, J. (2014). "I'm not sharing my work!" An approach to community building. *Quarterly Review of Distance Education*, 15 (2) 9-20.

Lee, S.J., Srinivasana, S., Trail, T., **Lewis, D.** and Lopez, S. (2011). Examining the relationship among student perception of support, course satisfaction, and learning outcomes in online learning. *The Internet and Higher Education*, 14(3), 158-163. doi:10.1016/j.iheduc.2011.04.001

**Lewis, D.**, & Barron, A. E. (2009). Animated Demonstrations: Evidence of Improved Performance Efficiency and the Worked Example Effect. *Lecture Notes in Computer Science (LNCS)*, 5619 247-255. doi: 10.1007/978-3-642-02806-9\_29

**Lewis, D.**, Moreno, M., & Large, J. (2009). Introductory videos: an analysis of student use patterns. *Journal of the Research Center for Educational Technology*, 5 (3) 68-79

Perrin, K., Rusnak, L., Zha, S., **Lewis, D.**, & Srinivasan, S. (2009). Using blended learning to ensure consistency and quality in multiple course sections. *The Journal of the Research Center for Educational Technology*, 5 (1) 42-48.

Abdel-Moty, A., & **Lewis, D.** (2009). Innovative technologies for promoting online learning: reflections of a faculty member. *Education Special Interest Section Quarterly*, 19(1) 1-4.

**Lewis, D.**, Brown, V. & Murtaugh, M. (in preparation). Questioning Quality Matters: Students' perspectives of courses designed with the QM Rubric

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### **National and International Refereed Presentations**

Lewis, D., Brown, V., & Toussaint, M. (2016, March). Students' Perception of Quality across Course Development Models. Paper presented at the Society for Information Technology and Teacher Education Conference (SITE) 2016, Savannah, GA, USA

- Lewis, D.,** Brown, V., Toussaint, M., & Murtaugh, M. (2015, August). The Interplay of Recall, Transfer, and Perceive Mental Effort with Attention Deficit Symptoms on Multimedia Learning. 2nd Global Conference on Contemporary Issues in Education, GLOBE-EDU 2015, Chicago, IL, USA
- Slapak-Barski, J., **Lewis, D.,** Flum, L. & Spieler, R. (2014, October). Multiple approaches to faculty development: How to play the game with the cards you've been dealt. In Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2014 (pp. 1646-1655). Chesapeake, VA: AACE.
- Tenam-Zemach, M., & **Lewis, D.** (2014, October). Weekly Lessons: How to Effectively Develop and Structure Your Online/Blended Course. Paper presented at the American Association for Teaching and Curriculum Annual Conference. Tampa, FL, USA.
- Lewis, D.,** & Slapak-Barski, J. (2014, March). *The Faculty Toolbox: A tool for promoting faculty use of Instructional Technologies*. Paper to be presented at the Society for Information Technology & Teacher Education International (SITE) Conference 2014. Jacksonville, FL, USA.
- Lewis, D.** & Brown, V. (2012, November). *Multimedia and ADHD learners: Are subtitles beneficial or detrimental?* Paper to be presented at the annual meeting of the Association for Educational Communications and Technology Conference (AECT), Louisville, Kentucky, USA.
- Brown, G., **Lewis, D.,** Slapak-Barski, J. & Steiner, L. (2012, May). *Diffusion of Innovations: Can Faculty Champions Become a Virtual Lab?* Paper presented at the 2012 United States Distance Learning Association (USDLA) National Conference. St. Louis, MO, USA
- Lewis, D.,** & Tenam-Zemach, M. (2012, March). *Technology-Enhanced Mentoring*. Paper presented at the 23rd Annual Teaching Academic Survival Skills Conference (TASS) Conference. Ft. Lauderdale, Florida, USA
- Tenam-Zemach, M., & **Lewis, D.** (2012, March). *Weekly Lesson Pages: How to develop and structure your online course*. Paper presented at the 23rd Annual Teaching Academic Survival Skills Conference (TASS) Conference. Ft. Lauderdale, Florida, USA
- Lewis, D.** & Brown, V. (2012, March). Individuals with ADHD and the cognitive processing of multimedia. In P. Resta (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2012* (pp. 4645-4649). Chesapeake, VA: AACE.
- Lewis, D.** (2011, November). *Performance Efficiency: A metric and research methodology for task analysis*. Paper presented at the annual meeting of the Association for Educational Communications and Technology Conference (AECT), Jacksonville, FL, USA.
- Srinivasan, S., **Lewis, D.,** Lopez, S., Lee, S.J., and Trail, T., (2010, November). *Assuring online course quality through customized minimum course standards*. Poster session presented at the American Public Health Association 138th Annual Meeting and Expo. Denver, CO, USA.
- Trail, T., Srinivasan, S., **Lewis, D.,** Lee, S.J., and Lopez, S., (2010, October). *The knowledge check strategy and e-learning*. Poster session to be presented at the EDUCAUSE Annual Conference 2010, Anaheim, CA.
- Lewis, D.,** Trail, T., Srinivasan, S., Rusnak, L., Lee, S. J., Lopez, S. (2010). Knowledge check questions: Is interactivity warranted during a narrated presentation? In J. Sanchez & K. Zhang (Eds.), *Proceedings of the World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2010* (pp. 2596-2603). Chesapeake, VA: AACE.

- Lee, S. J., Srinivasan, S., Trail, T., **Lewis, D.**, & Lopez, S. (2010). Reconsidering student support: Students' perception of support and learning outcomes. In J. Sanchez & K. Zhang (Eds.), *Proceedings of the World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2010* (pp. 549-553). Chesapeake, VA: AACE.
- Lewis, D.**, Trail, T., Srinivasan, S., Lee, S. J., Lopez, S. (2010, June). Knowledge check questions: Best practices for use of this instructional strategy. In *Proceedings of the World Conference on Educational Multimedia, Hypermedia and Telecommunications 2010* (pp. 2783-2788). Chesapeake, VA: AACE.
- Trail, T., **Lewis, D.**, Srinivasan, S., Lee, S.J., Lopez, S. (2010, June). *An evaluation of narrated presentation software for knowledge check implementation in e-learning*. Poster session presented at the ED-MEDIA 2010 World Conference on Educational Multimedia, Hypermedia & Telecommunications. Toronto, Ontario, Canada.
- Rusnak, L., Zha, S., **Lewis, D.**, Srinivasan, S., Perrin, K., & Cooper, M. (2010, May). *Using blended learning to ensure consistency and quality in multiple course sections*. Poster presented at the 7th Teaching Professor Conference, Cambridge, MA, USA
- Lewis, D.**, Zha, S., Srinivasan, S., Bryant, C., Ayers, J., Christian, J., & Lindenberger, J. (2010, January). *The PSI project/training grant: an administrative strategy to increase online course offerings*. Poster presented at the EDUCAUSE ELI 2010 Annual Meeting, Austin, TX, USA
- Srinivasan, S., **Lewis, D.**, Lopez, S., & Zha, S. (2009, November). *Customizing Course Standards to Meet Your Institution's Needs*. Poster session presented at EDUCAUSE 2009, Denver, CO, USA
- Lewis, D.** & Barron, A. (2008, March). *The acquisition of procedural skills: an analysis of the worked example effect using animated demonstrations*. Poster presented at the annual meeting of the American Educational Research Association (AERA), New York, NY, USA
- Lewis, D.** (2005, October). Demobank: A method of presenting just-in-time online learning. In Simonson, Michael, (Ed.) & Crawford, Margaret, (Ed.) *The Proceedings of the Association for Educational Communications and Technology (AECT) Annual International Convention* (Vol 2, p. 371-375) October 2005, Orlando, FL (ERIC Document Reproduction Service No. ED499963)
- Lewis, D.** (2003, October). *Automating instructional design with automated pedagogical agent systems: Will there always be a need for Instructional Designers?* Paper presented at the annual meeting of the Association for Educational Communications and Technology Conference (AECT), Anaheim, CA, USA
- Lewis, D.** (2003, April). *Pedagogical agents: A tool for the design and development of web-based Instruction*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.
- Alderman, M. & **Lewis, D.** (2001, October). *CyberAdvising for Orientation and Beyond*. Paper presented at National Academic Advising Association Annual Conference (NACADA 2001). Ottawa, Ontario, Canada.
- Schulo, S., Carey, L., Carey, J., **Lewis, D.**, and White, J. (2001, November). *Resource analysis for web-based distance learning: A case study of faculty perceptions of current courses and resources*. Paper presented at the annual meeting of the Association for Educational Communications and Technology, Atlanta, GA
- Churton, M., Lewis, B., Austin, D., & **Lewis, D.** (1999, October). *Computer Literate Teachers: Keeping Teaching Staff Up-To-Date*. Paper presented at International Conference on Technology and Education (ICTE), Tampa, FL

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## Regional and State Presentations

**Lewis, D.** (2011, September). *Best Practices for Narrated Presentations; Evidence from E-learning Research*. Florida Distance Learning Association (FDLA) Fall Conference 2011. Orlando, FL

Abdel-Moty, A. & **Lewis, D.** (2007, April). *Innovative technologies for promoting learning: reflections of a faculty member*. FIU Online 2007 e-Learning Conference. Miami, FL

**Lewis, D.,** White, J., Schullo, S., and Carey, L. (2000, November). *An Analysis of Florida's Distance Learning Policy*. Paper Presented at Florida Educational Research Association (FERA) Annual Meeting November 2000. Tallahassee, FL

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## Teaching Experience

### ITDE Program Professor, Nova Southeastern University

- EDD 8001 Instructional Design (Fully online web-based course);
  - Winter 2011, Summer 2011, Fall 2011, Winter 2012, Summer 2012
- EDD 8006 Systems Analysis and Design (Fully online web-based course);
  - Winter 2011, Fall 2011, Winter 2012, Fall 2016
- EDD 8121 Advanced Instructional Design (Fully online web-based course);
  - Winter 2011, Winter 2012
- EDD 8124 Theories of Learning (Fully online web-based course);
  - Summer 2011, Fall 2011, , Summer 2012

### Adjunct Instructor

University of South Florida, Library and Information Science Department  
LIS 5937 - Web Design for Libraries (Fully online web-based course)  
Spring 2008

### Instructor (w/ Dr. Ann Barron)

University of South Florida, Curriculum & Instruction Department  
EME 6936 - Web Design (Fully online web-based course)  
Spring 2003 & Summer 2003

### Adjunct Instructor

University of South Florida, Library and Information Science Department  
LIS 6303 - Preparing Instructional Materials, Fall 1998 (Campus-based course)

### Guest Lecturer

Florida International University, First Year Experience Program  
SLS 1501 - First Year Experience (Campus-based undergraduate course)  
Spring 2005, Fall 2005, Spring 2006, Summer 2006, Fall 2006, Spring 2007

### Guest Lecturer

University of South Florida, Student Affairs Department  
SDS 6624 - Ecology of Campus Life (Campus-based course)  
Spring 2000, Spring 2001, Spring 2002

### Computer Applications Instructor

Helix High School, La Mesa, CA  
Fall 1994 - Summer 1995

### Computer Teacher

Elementary Institute of Science, San Diego, CA  
Summer 1994

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## Faculty Development Workshops

Over the years I have designed, developed, and delivered a series of local presentations and workshops for university faculty, staff, and students either as a Faculty person, Instructional Designer and Technology Trainer:

### *Advanced Collaborate Techniques*

Academic Technology Center  
University of West Florida  
ATC Live  
David Lewis  
December 3, 2014

Google Drive/Doc/Sheets  
Academic Technology Center  
University of West Florida  
ATC Live  
David Lewis  
October 1, 2014

### *Illuminate/Collaborate for Novices*

Spring Faculty Retreat  
Fischler School of Education  
Nova Southeastern University  
Maryann Tobin & David Lewis  
April 18, 2012

### *Illuminate for Intermediate/Advanced*

Spring Faculty Retreat  
Fischler School of Education  
Nova Southeastern University  
David Lewis & Maryann Tobin  
April 18, 2012

### *Multimedia Learning Effects and the Design of Narrated Presentations.*

Best Practices in Online Learning Forum  
Nova Southeastern University  
David Lewis  
Oct 27, 2011

### *Weekly lessons: How to help students navigate*

*course content.* Best Practices in Online Learning Fall 2011 Forum  
Nova Southeastern University  
David Lewis and Michelle Tenam-Zemach  
Oct 27, 2011

### *Free Collaborative Writing Tools (DropBox, GoogleDocs, OfficeLive)*

David Lewis  
ETA (COPH) Tech Workshop  
February 18, 2010

### *Creating Effective Course Rubrics*

David Lewis  
ETA (COPH) Tech Workshop  
December 10, 2008

### *Podcasting*

David Lewis  
ETA (COPH) Tech Workshop  
July 17, 2008

### *Blogs, Wikis and RSS, Oh my!*

David Lewis and Sedrick Sexton  
Resource Center for Educational Technology (RCET), FIU Library  
March 23, 2007

### *Photoshop: Fundamentals*

David Lewis, (RCET, FIU Library)  
September 22, 2006, July 7, 2006;  
April 5, 2005; May 19, 2005

### *DreamWeaver : CSS & Layers*

David Lewis, (RCET, FIU Library)  
September 29, 2004; October 8, 2004;  
May 12, 2005; June 23, 2005  
October 13, 2006, July 14, 2006  
January 31, 2005; June 23, 2005  
February 23, 2007

### *DreamWeaver Fundamentals*

David Lewis, (RCET, FIU Library)  
February 23, 2007; October 13, 2006, July 14, 2006;  
January 31, 2005; June 23, 2005

### *Podcasting for faculty*

David Lewis (RCET, FIU Library)  
November 8, 2006, Feb 8, 2007

### *PowerPoint: Reducing Information Overload*

David Lewis, (RCET, FIU Library)  
September 21, 2006, March 3, 2005; September 19, 2005, Feb 22, 2007,  
August 11, 2006

### *Instructional Design (Analysis)*

David Lewis (RCET, FIU Library)  
November 1, 2004; February 10, 2005;  
May 26, 2005; September 22, 2005

*Instructional Design (Design)*

David Lewis (RCET, FIU Library)  
November 8, 2004; February 17, 2005;  
June 2, 2005; September 29, 2005

*Instructional Design (Development)*

David Lewis (RCET, FIU Library)  
February 24, 2005; June 9, 2005;  
October 6, 2005

*WebCT Quickstart*

David Lewis & Sedrick Sexton (RCET)  
September 29, 2006, July 28, 2006,  
Jan 19, 2007, March, 16 2007

*WebCT Quickstart*

UTS Training Center  
Bruce Duffy, Mary Haley, David Lewis, Sedrick  
Sexton

June 9, 2006, June 16, 2006

*Instructional Design: (Evaluation)*

David Lewis, (RCET, FIU Library)  
March 3, 2005; June 16, 2005;  
October 13, 2005

*Developing a faculty teaching portfolio*

David Lewis, (RCET, FIU Library)  
October 13, 2004

*Online teaching and learning*

David Lewis and Mary Haley  
Academy for the Art of Teaching, FIU  
August 27, 2004

*WebCT Assignment Tool*

David Lewis (RCET, FIU Library)  
November 9, 2006, September 14, 2006

*WebQuests: A Web Course Activity*

David Lewis, (RCET, FIU Library)  
October 20, 2004

*Camtasia 2.0*

David Lewis  
Educational Technology Services Workshop,  
FIU, May 6, 2004

*WebCT Workshop Series*

Bill Paterson, Chet Lyskawa, David Lewis,  
Shauna Schullo, Rebecca Moss  
VITAL Workshop Series, USF  
May 18-22, 1998, June 22-26, 1998

*Microsoft Office 97*

David Lewis  
The Link Web Publishing Company  
The Internet Store, Mobile, AL  
November 18, 1997

*Microsoft Windows 3.1*

David Lewis  
The Link Web Publishing Company  
The Internet Store, Mobile, AL  
October 13, 1997

*Creating your own website*

CLRIT SDSU, June 18, 1996  
David Lewis

*Telecommunications Workshop*

David Lewis & Lance Larson  
Instructional Media Lab, SDSU  
May 7, 1996

*WWW Faculty Development Workshop*

David Lewis  
Grossmont Community College  
August 24, 1995

*Hypercard, SAGE Workshop Series*

David Lewis  
Students Association for Graduates in  
Educational Technology (SAGE), SDSU  
November 4, 1995, April 8, 1995,  
November 5, 1994



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## Awards

2013 *Federal Employee Achievement Award: Certificate of Appreciation*

Award for recognition of service toward NSF Virtual Panel courses  
Arlington, VA, October 28, 2013

2011-2012 Title V - B

Faculty Champions – Award for Outstanding Initiative and Performance

Nova Southeastern University

North Miami Beach, FL, May 24, 2012

2001 NACADA

Outstanding Electronic Advising Publication Certificate of Merit

Ottawa, Ontario, Canada, October 14, 2001

