

# Dr. Laura Goadrich

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## Education

- Ed. D. **Higher Education Administration**. Northeastern University. Boston, MA (2013-2016)
- M.S. **Industrial Engineering**. University of Wisconsin – Madison. Madison, WI (2002-2005)
- M.S. **Computer Science**. University of Wisconsin – Madison. Madison, WI (2000-2002)
- B.A. **Computer Science and Mathematics**. Southwestern University. Georgetown, TX (1996-2000)
- Certification for Secondary Education in Mathematics and Computer Science, AR (2018-Present)
- Certification for Secondary Education in Mathematics and Computer Science, TX (2000-2020)

## Administrative Experience

- **Special Projects Director** 2023-Present  
Arkansas Department of Education, Division of Elementary and Secondary Education, Learning Services, Little Rock, AR  
Supervisor:  
Dr. Kiffany Pride
- **Dean of Technology, Engineering and Mathematics** 2011-2014  
Bossier Parish Community College, Bossier City, LA  
Supervisor:  
Dr. Stan Wilkins
  - Earned ATMAE accreditation for 3 associate degree programs
  - Earned six Committee on National Security Systems certifications
  - Earned the Center of Academic Excellence for two-year colleges
- **Dean of Cyber Information Technology** 2008-2011  
Bossier Parish Community College, Bossier City, LA  
Supervisor:  
Dr. Stan Wilkins
  - Earned ATMAE accreditation for 5 associate degree programs
  - Obtained 14 articulation agreements for degree programs

## Grant Coordinator Experience

- **National Assessment of Educational Progress (NAEP) State Coordinator** Fall 2017 - 2023  
Arkansas Department of Education, Little Rock, AR  
Supervisor:  
Michelle Johnson

## Teaching Experience

- **Department Consultant and Adjunct Instructor** – Division of Business and Technical Education – Computer Information Technology, Cyber Security Essentials Fall 2014-15, 19, 22-24  
South Arkansas Community College, El Dorado, AR  
Supervisor:  
Roslyn Turner

## Dr. Laura Goadrich

- **Department Consultant and Adjunct Instructor** – Division of Business and Information Technology – IT Essentials I & II (CompTIA A+), Assembly Language Programming, Systems Database Administration, Linux Administration (CompTIA Linux+) Pulaski Technical College, North Little Rock, AR  
Fall 2016, Sp 2017  
Supervisor:  
Mike McMillan,  
Rebecca Sterling  
Fall 2014
- **Online Tutor** – Tutor.com  
Mathematics  
New York, NY  
Supervisor:  
Ruthann Wheeler  
Fall 2012
- **Assistant Professor** – Division of Technology, Engineering and Mathematics – Mobile Applications, A+ Hardware- Online Classes Bossier Parish Community College, Bossier City, LA  
Supervisor:  
Dr. Stan Wilkins
- **Instructor** – Division of Business and Computer Science – MS Office, Programming Logic, Internet Technology  
Bossier Parish Community College, Bossier City, LA  
2007-2008  
Supervisor:  
Kimberly Harvel  
Fall 2007
- **Adjunct Instructor** – Statistics for Sociology, Psychology and Political Science  
Centenary College of Louisiana, Shreveport, LA  
Supervisor:  
Dr. Loren Demerath  
Spring 2007
- **Full-Time Instructor** – College Algebra, Principles of Geometry, Algebra Concepts, Introduction to College Mathematics  
Madison Area Technical College, Madison, WI  
Supervisor:  
Dr. Tom Pulaski
- **Adjunct Instructor** – College Algebra, Algebra Concepts, Introduction to College Mathematics  
Madison Area Technical College, Madison, WI  
2005-2007  
Supervisor:  
Dr. Tom Pulaski
- **Instructor** – Data Structures, Numerical Methods, Machine Programming  
University of Wisconsin – Madison, Madison, WI  
2005-2006  
Supervisor:  
Bob Holloway
- **Teaching Assistant** – Introduction to Programming  
University of Wisconsin - Madison, Madison, WI  
2000-2003  
Supervisor:  
Jim Skrentny

## Consulting Experience

- **Promoting Educator Effectiveness in Rural Arkansas (PEER) Consultant and Evaluator**; Department of Education Grant  
Crowley's Ridge Educational Service Cooperative, AR  
2024-25  
Director:  
Brandi Williams
- **NAEP Consultant and Presenter**- AERA Division of New Mexico  
Nation's Report Card Rally & Teachers' Academy  
New Mexico Public Education Department, Albuquerque, NM  
Fall 2023  
Director:  
Lynn Vásquez
- **CIS Program Review**– Division of Business and Information Technology– Computer Information Systems  
Pulaski Technical College, Little Rock, AR  
Spring 2016

- **Curriculum Consultant for FIT**– Division of Business and Technical Education– Computer Information Technology  
South Arkansas Community College, El Dorado, AR
- **CIT Program Review**– Division of Business and Technical Education  
– Computer Information Technology  
South Arkansas Community College, El Dorado, AR

Supervisor:  
Michael McMillan  
Spring 2016

Supervisor:  
Jim Roomsberg  
Fall 2014

Supervisor:  
Jim Roomsberg

### **Grants Obtained and Overseen**

- \$2,744,350 ArkansasPBS (ArkansasIDEAS annual ADE contract) 2023-2024
- \$2,980,000 Project Lead the Way (Walton 3-year contract) 2023-2024
- \$97,860.90 STEM Integration Specialist (annual ADE contract) 2023-2024
- \$742,137 from U.S. Department of Education (NAEP 5.5-year contract) 2020-2023
- \$514,039 from U.S. Department of Education (NAEP 5-year contract) 2017-2020
- \$22 million from Bentler Steel and Louisiana Fast Start for a new engineering technology building at BPCC 2012-2014
- \$3.5 million for Department of Labor TAACCCT grant round 3 2013-2016
- \$14.7 million for TAACCCT grant round 2 – Lead Institution 2012-2016
- \$151,850 from internal grant funding 2013
- \$170,495 from Louisiana Board of Regents Grants 2012-2013
- \$197,756 from Louisiana Workforce Rapid Response 2012
- \$300,000 Community Foundation Grant for Energy 2012-2014
- \$350,000 private donations to support scholarships and the new engineering technology building 2012
- \$300,000 Cyber Security Education Consortium 2008-2014
- \$14,461 from Carl Perkins 2013

### **Publications/Presentations**

- Presentation to New Mexico Superintendents and Teachers on “General NAEP Overview” with New Mexico results October 28, 2023
- Presentation to ADE Leadership on “Embargoed NAEP 2022 Results” October 17, 2022
- Presentation to ADE: DESE ELA Knowledge Building Series “NAEP Reading Results and Framework” September 13, 2022
- Presentation to ADE: DESE Learning Services Data Chat “NAEP 2019 State Results for Math and Reading” May 6, 2022
- June 6, 2022

- Presentation to ELA Standards Working Group on “NAEP 2025 Reading Frameworks” & “NAEP 2025 Mathematics Frameworks” April 13, 2022
- Presentation to ADE Leadership “NAEP 2019 High School Transcript Study” May 4, 2021
- Presentation to NSC “NAEP at the AERA Conference” December 3, 2020
- Presentation at ADE: DESE Learning Services Monthly meeting, “NAEP Resources” October 1, 2020
- Presentation at ADE: DESE Learning Services Monthly meeting, “NAEP Tools and Resources” June 12, 2019
- Presentation at Hot Springs Technology Institute, “Innovative Digitally-Based Assessments” December 10, 2018
- Presentation at NAEP Assessment Coordinator training, “NAEP in Arkansas” July 19, 2018
- Presentation at Technology Information Center for Administrative Leadership, “NAEP Tools and Results” June 21, 2018
- Presentation at Hot Springs Technology Institute, “Analyzing State, National and International Results for Arkansas Student Success” March 22, 2016
- Doctoral thesis defense: “Leadership Approaches for Effective Technological Change in Community College” April 19, 2013
- Keynote presentation “Creating and Maintaining a Relevant and Innovative Curriculum in the 21st Century” for Consortium for Computing Sciences in Colleges (CCSC) Conference December 3-6, 2011
- Effective collation of campus-wide learning outcomes using Google Documents: a tutorial given at the Southern Association of Colleges and Schools Annual Conference (<http://laura.goadrich.com/sacs/>) 2008
- Problem solving with flow charts and a little flavor of programming with python. Agarwal, A., Agarwal, K., Goadrich, L., Goadrich, M. Textbook for introductory computer science courses. 2007
- A multiplan treatment-planning framework: a paradigm shift for intensity-modulated radiotherapy. Meyer, Zhang, Goadrich, Nazareth, Shi, D’Souza. International Journal of Radiation Oncology Biology and Physics. 68 (2007) 1178-89 2006
- A difference-matrix metaheuristic for intensity map segmentation in step-and-shoot IMRT delivery. Gunawardena, D’Souza, Goadrich, Meyer, Sorensen, Naqvi, and Shi. Physics in Medicine and Biology. 51 (2006) 2517-36. 2006

Professional Development

- 72+ hours [Professional Development Hours](#) for AR Teaching License June 2024
- Harvard Strategic Data Planning Conference April 2024
- 171 + hours [Professional Development Hours](#) for AR Teaching License June 2023
- NAEP Assessment Literacy Workshop April 2023
- 172 + hours [Professional Development Hours](#) for AR Teaching License Jun 2022
- NAEP Assessment Literacy Workshop April 2022
- Assessment Coordinator Assessment Training Dec 2021
- Using R Software for Item Response Theory (IRT) Model Calibrations;  
Analyzing Large Scale Assessment Data Using R Jun 2021
- 184 + hours [Professional Development Hours](#) for AR Teaching License Jun 2021
- The Future is Here: Analyzing NAEP Process Data Using R by American  
Educational Research Association (AERA) Jun-Sep 2020
- How to Transition Your Professional Learning Online, Arkansas Team  
Digital Jun 2020
- Microsoft Office Specialist- Outlook certification (77-731) Jun 2020
- 215 hours [Professional Development Hours](#) for AR Teaching License May 2020
- Microsoft Office Specialist- Excel 2016 certification (77-725) Mar 2020
- Assessment for Learning Project Convening, Louisville, KY Dec 2019
- NAEP Assessment Literacy Workshop, Rockville, MD Summer 2019
- 182.5 hours [Professional Development Hours](#) for AR Teaching License Spring 2019
- NAEP Assessment Coordinator Training, Orlando, FL Spring 2019
- Ensuring Data Quality Workshop, Rockville, MD Winter 2018
- Hot Springs Technology Institute and TiCAL, Hot Springs, AR Summer 2018
- CCSSO NCSA, San Diego, CA Summer 2018
- NAEP 2017 release, Rockville, MD Spring 2018
- NAEP 2017 Analysis and Reporting Workshop Winter 2017
- ADE Research and Technology Ambassador Academy Dec 2017
- The AACC John E. Roueche Future Leaders Institute Fall 2013
- Harvard Summer Institute for Management and Leadership in Education Summer 2012
- Leadership Development Institute of Louisiana Community and Technical  
College System 2009-2010
- CompTIA A+ Certification 2010
- National Institute for Staff and Organizational Development (NISOD)  
Excellence Award Recipient 2010
- Certiport Internet and Computing Core Certification (IC3) 2010
- Cyber Security Education Consortium (CSEC) Coursework 2008-2009
- UW-Madison Computer Science Department Best TA award 2001

**Affiliations/Memberships**

- Arkansas Association of Educational Administrators (AAEA) 2024-Present
- American Educational Research Association (AERA) 2019 - 2023
- ACM Special Interest Group in Computer Science Education (SIGCSE) 2008-2019
- Mathematical Association of America (MAA) 2014-2016
- Association of Technology, Management and Applied Engineering (ATMAE) 2010-2014
- Armed Forces Communications and Electronics Association (AFCEA) 2009-2014

**Conferences Attended**

- Arkansas Department of Education (ADE) Summit, July 8-10, 2024, Hot Springs, AR
- Strategic Data Project (SDP) Convening 2024- Center for Educational Policy Research at Harvard University, April 28-May 1, 2024, Boston, MA
- NAEP Ensuring Data Quality Workshop, July 24-26, 2023, Washington DC.
- Arkansas Department of Education (ADE) Summit, July 10-12, 2023, Hot Springs, AR.
- American Education Research Conference (AERA) May 4-5, 2023, Virtual
- National Council for Measurement in Education (NCME), March 29-30, 2023, Virtual
- Pre-Release Workshop NAEP 2022, October 4-6, 2022, Arlington, VA
- National Center for Education Statistics (NCES) STATS-DC Conference, August 8-12, 2022, Virtual
- Arkansas Department of Education (ADE) Summit, July 11-13, 2022, Virtual
- American Education Research Conference (AERA), April 10-11, 2022, Virtual
- Arkansas Department of Education (ADE) Summit, June 22-24, 2021, Virtual
- Council of Chief State School Officers (CSSO) National Conference on Student Assessment (NCSA) conference, June 21-23, 2021, Virtual
- Institute of Education Sciences (IES) Reading Summit, June 8-9, 2021, Virtual
- American Education Research Conference (AERA), April 9-12, 2021, Virtual
- National Council on Measurement in Education (NCME) Conference, September 9-11, 2020
- Beyond Multiple Choice 2020 Conference, November 3-5, 2020, Virtual
- National Council on Measurement in Education (NCME) 2020 Conference Webinars, June 16-Sept 4, 2020, Virtual
- Arkansas Department of Education (ADE) Summit, June 15-18, 2020, Virtual
- Ensuring Data Quality Workshop, July 21-24, 2020, Virtual
- ADE Summit, June 16-18, 2020, Virtual
- ADE Student-Focused Tours (Organizer), October 23, 2019, Northeast, AR
- NAEP 2019 Pre-Release Conference, October 1-3, 2019, Rockville, MD
- National Conference on Student Assessment (Council of Chief State School Officers), June 24-26, 2019, Orlando, FL
- ADE Summit, June 18-20, 2019, Hot Springs, AR
- Hot Springs Technology Institute, June 12-13, 2019, Hot Springs, AR

- Assessment for Learning Project Convening, April 1-3, 2019, Louisville, KY
- NAEP Assessment Literacy Workshop, March 19-21, 2019, Rockville, MD
- ADE Student-Focused Tours (Organizer), March 6, 2019, Southwest, AR
- NAEP Assessment Coordinator Training, December 7-11, 2018, Orlando, FL
- ADE Student-Focused Tours (Organizer), November 14, 2018, Northwest, AR
- Technology Information Center for Administrative Leadership (TiCAL), July 19-20, 2018, Hot Springs, AR
- National Conference on Student Assessment (Council of Chief State School Officers), June 27-29, 2018, San Diego, CA
- Hot Springs Technology Institute, June 20-21, 2018, Hot Springs, AR
- HiTech Conference, July 21-25, 2014, Chicago, IL
- Special Interest Group for Computer Science Education (SIGCSE), March 3-8, 2014, Atlanta, GA
- Board of Regents Mathematics Course Alignment Meeting, October 9, 2013, Baton Rouge, LA
- American Association of Community Colleges John E. Roueche Future Leaders Institute, September 15-19, 2013 Dallas, TX
- Trade Adjustment Assistance Community College and Careers Training (TAACCCT) conference, April 29-May 1, 2013, Seattle, WA
- Consortium for Computing Sciences in Colleges (CCSC) Conference, April 19, 2013
- Louisiana Community and Technical Colleges System (LCTCS) conference, March 13-15, 2013, Baton Rouge, LA
- Special Interest Group for Computer Science Education (SIGCSE) conference, March 6-9, 2013, Denver, CO
- Center for Academic Excellence Knowledge Units (CAE KU) development, March 5, 2013, Denver, CO
- Southern Association of Colleges and Schools (SACS) conference, December 8-11, 2012, Dallas, TX
- Association of Technology, Management and Applied Engineering (ATAME) conference, November 14-16, 2012, Nashville, TN
- Fundamentals of Conceptual Understanding & Success (FOCUS) conference, October 10-12, 2012 San Marcos, TX
- Partnership for Assessment of Readiness for Colleges and Careers (PARCC) conference, August 9-10, 2012, White Castle, LA
- Cyber Innovation Center Cyber Systems Survivability and Sustainment in Contested Environments Workshop, July 19, 2012, Bossier City, LA
- Institute for Management and Leadership in Education, June 17-29, 2012, Harvard, MA
- Louisiana Community and Technical Colleges System (LCTCS) Conference, March 7-9 2012, Shreveport, LA
- SIGCSE, February 29- March 3, 2012, Raleigh, NC
- SACS Annual Meeting, December 3-6, 2011, Orlando, FL
- Board of Regents Mathematics meeting, November 21, 2011, Baton Rouge, LA
- ATMAE Conference, November 8-12, 2011, Cleveland, OH

- Advanced Technological Education Principal Investigators (ATE PI) Conference, September 13, 2011, Washington, D.C.
- American Council for Construction Education Conference, July 20-22, 2011, Minneapolis, MN
- Cyber Security Education Consortium Retreat, July 9-10, 2011, Oklahoma City, OK
- The Colloquium for Information Security Education (CISSE) Conference, June 13-15, 2011, Fairborn, OH
- SIGCSE, March 9-12, 2011, Dallas Texas
- LCTCS 2011 Annual Conference, March 23-25, 2011, Baton Rouge, LA
- Air Force Global Strike Command Technology and Innovation Symposium, November 16-17, 2010, Shreveport, LA
- CSEC Instructor Training Control Systems Security, September 27- October 1, 2010, Baltimore, MD
- ATMAE Conference, October 27-30, 2010, Panama City Beach, FL
- National Science Foundation, July 19-20, 2010, Washington, D.C.
- Collin College, Texas 2010 Working Connections IT Faculty Development Institute, July 16, 2010, Collin College, TX
- The Colloquium 2010, June 7-9, 2010, Baltimore, MD
- National Institute for Staff and Organizational Development (NISOD) Conference, May 30-June 2, 2010, Austin, TX

## **Software Knowledge**

- Data Visualization: Tableau, Adobe Photoshop
- Google Workspace: Calendar, Chat, Drive, Forms, Gmail, Meet, Sheets, Sites, Slides
- Mathematical Software: Mathematica, MATLAB, Excel
- Programming Languages: R, Java, C++, Python, Perl, Machine Language, C, SQL, SPSS, HTML, LaTeX
- Operating Systems: Unix, Linux, Windows, Mac OS
- Microsoft Office: Word, Excel, Access, PowerPoint, Outlook, Teams
- Learning Management Software: Blackboard, Canvas, Moodle
- Course Management Software: TestOut, MyMathLab, Simtronics, MindTap, SimNET

Electronic resume location: <https://tinyurl.com/5xav29sy>