

Derrick W. Smith, Ed.D., COMS
Dean, College of Education
Auburn University at Montgomery
Email: dsmit148@aum.edu

EDUCATION

Doctorate of Education (Ed.D), Special Education, Texas Tech University, Lubbock, TX., May, 2008.

Certified Orientation and Mobility Specialist (COMS), Texas Tech University, Lubbock, TX. September, 2007.

Educational Leadership Certification, University of Alabama at Birmingham, Birmingham, AL. May, 2005.

Master of Arts in Education (M.A.Ed.), Special Education (Collaborative Teaching/Visual Impairments), University of Alabama at Birmingham, Birmingham, AL. December, 2003.

Bachelor of Science (B.S.), Mathematics, Faulkner University, Montgomery, AL. Major Field: Mathematics. May, 2000.

Associate of Science (A.S.), Faulkner University, Montgomery, AL. May, 2000.

TEACHING ACTIVITIES

College Teaching Experience

Auburn University at Montgomery, Dean, College of Education, 2024-present

University of Alabama in Huntsville, Associate Dean, College of Education, 2018-2023

University of Alabama in Huntsville, Chair, Department of Curriculum and Instruction, 2015-2018

University of Alabama in Huntsville, Professor, 2021-2023

University of Alabama in Huntsville, Associate Professor, 2014-2021

University of Alabama in Huntsville, Assistant Professor, 2008-2014

- Introduction to Education Practicum (ED 301/501), undergraduate/graduate
- Introduction to Low Incidence Populations (EDC 302), undergraduate
- Critical Issues in Special Education (EDC 331), undergraduate
- Educating Exceptional Children and Youth (ED 593), graduate
- Elementary/Collaborative Teaching Internship (ED 493), undergraduate
- Instructional Strategies (ED 311), undergraduate
- Teaching Elementary Mathematics (ED 374), undergraduate
- Collaborative Consultation (EDC 321), undergraduate
- Teaching the Exceptional Child (EDC 301), undergraduate
- Elementary School Internship (ED 493), undergraduate

- Special Topics-Internship (ED 450), undergraduate
- High School Internship (ED 497), undergraduate
- Introduction to Differentiated Instruction (ED 565), graduate
- Differentiated Instruction for Special Populations (ED 570), graduate
- Assistive Technology for the Education of Individuals with ASD (EDC 625), graduate
- Educational Technology for Differentiated Instruction (ED 620), graduate
- Assessment Guided by Differentiated Instruction (ED 635), graduate
- Action Research Project (ED 690), graduate
- Introduction to Braille Literacy (EDC 654), graduate
- Advanced Braille and Assistive Technology (EDC 657), graduate
- Introduction to Orientation and Mobility (EDC 652), graduate
- Strategies for Students with Visual Impairments (EDC 653), graduate
- Programs for MIVI/DB (EDC 656), graduate
- Special Topics in Education (ED 402), undergraduate
- Foundations of Visual Impairments (EDC 551), graduate

Texas Tech University, Adjunct Professor/Instructor

- Instructional Strategies for Students with Visual Impairments (EDSP 5381), Summer 2009/Spring 2009-16 graduate, **online**
- Programs and Services for Individuals with Visual Impairments (EDSP 5380), Spring 2011, graduate, **online**
- Intermediate O&M for Multihandicapped and Blind (EDSP 5386), Summer 2008, graduate
- Advanced O&M for Multihandicapped and Blind (EDSP 5387), Summer 2008, graduate
- Exceptional Children and Youth (EDSP 3300), Spring 2008/Fall 2007/Spring 2007, undergraduate
- Introduction to Computers and Technology (EDIT 2318), Spring, undergraduate
- Learning and Special Populations (EDSP 3205), Spring 2007, undergraduate

Dominican College, Adjunct Professor

- Literary Braille and Instructional Strategies (VI 535), Fall 2013, Fall 2014-16, graduate, **online**
- Nemeth Code and Other Specialized Braille Codes (VI 538), Winter 2014-16, graduate, **online**

Marshall University, Adjunct Professor

- Math Methods for Visually Impaired (CIVI 600), Spring 2015-16, graduate, online

George Mason University, Adjunct Professor

- Braille Reading and Writing (EDSE 616), Spring 2015, graduate, online

New Mexico State University, Adjunct Professor

- Anatomy of the Eye (SPED 533), Summer 2011, graduate, **online**
- Instructional Strategies for Students with Visual Impairments (SPED 539), Spring 2011-12, graduate, **online**

University of Northern Iowa, Adjunct Professor

- Anatomy of the Eye and Educational Implications of Low Vision (SPED 4139/5138), Fall 2013, graduate, **online**

West Virginia University, Adjunct Professor

- Instructional Strategies for Students with Low Vision/Blindness (SPED 635), Spring 2012, graduate, **online**

North Carolina Central University, Adjunct Professor

- Advanced Seminar in Visual Impairments (EDEC 5513), Spring 2012/Spring 2014, graduate, **online**
- Psychosocial Implications of Blindness and Visual Impairment (EDEC 5610), Spring 2012, Fall 2013 graduate, **online**
- Introduction on Visual Impairments (EDEC 5501), Spring 2014, graduate, **online**
- Problems, Methods, and Materials (EDEC 5604), Spring 2016, graduate, **online**

University of Nebraska, Adjunct Professor

- Introduction to Eye Anatomy (SPED 847), Fall 2007/Fall 2009, graduate, **online**
- Foundations of Visual Impairments (SPED 846), Fall 2008, graduate, **online**

University of Northern Colorado, Adjunct Professor

- Mathematics and Students with Sensory Disabilities (EDSE 508), Summer 2008, graduate, **online**

Professional Experience

2005-06 Graduate Assistant for Nora Griffin-Shirley, Texas Tech University.

2005-07 Graduate Assistant for Pat Kelley, Texas Tech University.

K-12 Teaching Experience

2009-2018 Certified Orientation and Mobility Consultant, Madison City School System, Madison, AL.

2000-05 Secondary Mathematics Teacher, Alabama School for the Blind.

Certifications

- **Certified Orientation and Mobility Specialist (COMS), ACVREP**
- **Class A: Special Education-Visual Impairments (P-12), Alabama**
- **Class A: Educational Administrator (P-12), Alabama**
- **Class B: Secondary Mathematics (6-12), Alabama**
- **National Library of Congress Certified Braille Transcriber, Literary**
- **UAH Quality Education Practices Online (QEPO)**

PUBLICATIONS

Books/ Chapters

- Smith, D.W. (Ed.) (in press). *Accessible mathematics education for students with visual impairments*. APH Press.
- Smith, D.W. (in press). Algebra. In D.W. Smith (Ed.), *Accessible mathematics education for students with visual impairments*. APH Press.
- Smith, D.W., & Lanan, A. (in press). Measurement. In D.W. Smith (Ed.), *Accessible mathematics education for students with visual impairments*. APH Press.
- Wild, T., & Smith, D.W. (in press). Tactile Graphics. In D.W. Smith (Ed.), *Accessible mathematics education for students with visual impairments*. APH Press.
- Wild, T., Smith, D.W., Kelly, S., & Fast, D. (2022). The national agenda for science, technology, engineering, and mathematics (STEM) for students with visual impairments. Columbus, OH: Ohio State University Press.
- Smith, D.W. (2017). Mathematics. In C. Holbrook, T. Wright, C. Kamei-Hannan (Eds.), *Foundations of education (3rd ed.): Volume II: Instructional strategies for teaching children and youths with visual impairments*. AFB Press.
- Kelly, S. & Smith, D.W. (2016). Assistive technology. In S.Z. Sacks & M.C. Zatta (Eds.), *Keys to educational success: Teaching students with visual impairments and multiple disabilities*. AFB Press.
- Smith, D.W., & Kelly, S. (2014). Assistive technology for students with visual impairments: A research agenda (pp. 23-53). In Debra Hatton (Vol. Ed.), *Current Issues in the Education of Students with Visual Impairments. International Review of Research in Developmental Disabilities*. Academic Press.
- Smith, D.W. (2009). They say, Let us educate your children. In Tommy Hicks (Ed.), *Philosophy and Vain Deceit* (pp. 51-65). Hicks Publications.
- Smith, D.W. (2008). *Assistive technology competencies for teachers of students with visual impairments: A Delphi study*. Unpublished doctoral dissertation, Texas Tech University, Lubbock.
- Griffin-Shirley, N., Grimmer, E.S., & Smith, D.W. (2008). Using strength-based planning for transitioning students with visual impairment. In Nora Griffin-Shirley, Roseanna Davidson, Michael Shaughnessy, Effie Laman, & DeAnn Lechtenberger (Eds.), *Strength-based planning for transitioning students with sensory impairments*. Nova Publications.

Refereed Journal Articles

- Smith, D.W. (2024). Developing mathematical concepts through orientation and mobility (Legacy Article). *The New RE:view*, 3(1), 46-52.

- Tennison, J., Spondita, G., Hairston, J., Drews, P., Smith, D.W., Giudice, N., Stefik, A., & Gorlewicz, J. (2023). Bridging the Gap of Graphical Information Accessibility in Education with Multimodal Touchscreens. *Journal of Visual Impairments & Blindness*, 117(6), 453-466. DOT: <https://doi.org/10.1177/0145482X231217496>.
- Smith, D.W., & Kelly, S. (2022). Assistive technology research update: A synthesis of the research on assistive technologies from 2013 to 2019, *Journal of Blindness Innovation and Research*, 12(1). DOI: <http://dx.doi.org/10.5241/12-226>.
- Guzman-Orth, D., Supalo, C. A., Smith, D., Lee, O., & King, T. (2021). *Equitable STEM instruction and assessment: Accessibility and fairness considerations for special populations*. (Research Report No. RR-21-11). Educational Testing Service. <https://doi.org/10.1002/ets2.12324>
- Smith, D.W., Lampley, S.A., Dolan, B., Williams, G., Schleppebach, D., & Blair, M. (2020). Effect of 3D manipulatives students with visual impairments who are learning chemistry constructs: A pilot study. *Journal of Visual Impairments & Blindness*, 114(5), 370-381.
- Gorlewicz, J.L., Tennison, J.L., Uesbeck, P.M., Richard, M.E., Palani, H.P., Stefik, A., Smith, D.W., & Giudice, N.A. (2020). Design guidelines and implementation case studies with touchscreen-based graphics. *ACM Transactions on Accessible Computing*, 13(3), Article 10.
- Supalo, C.A, Bhattacharya, J., Steinberg, D., Smith, D.W. (2020). Overview of the proceedings of the 2019 Inclusion in Science, Learning a New Direction, Conference on Disability (ISLAND). *Journal of Science Education for Students with Disabilities*, 23(1), 1-7.
- Hairston, J.R., Williams, T., Smith, D.W., Sabados, W.T., & Forney, S. (2020). Teaching Cybersecurity to students with visual impairments and blindness. *Journal of Science Education for Students with Disabilities*, (23)1, 1-15.
- Tennison, J.L., Usebeck, P.M., Giudice, N.A., Stefik, A., Smith, D.W., & Gorlewicz, J.L. (2020). Establishing vibration-based tactile line profiles for use in multimodal graphics. *ACM Transactions on Applied Perception*, 17(2), Article 7.
- Kruemmling, B., Hayes, H., & Smith, D.W. (2017). Enriching doctoral-level preparation programs through a nationwide consortium model: The national leadership consortium in sensory disabilities. *Journal of Visual Impairments & Blindness*, 111(6), 557-567.
- Smith, D.W., & Rosenblum, L.P. (2013). The development of accepted performance items to demonstrate competence in the Nemeth Braille Code. *Journal of Visual Impairment & Blindness*, 107(3), 167-179.
- Zhou, L., Smith, D.W., Parker, A.T., & Griffin-Shirley, N. (2013). The relationship between self-perceived computer competence and employment outcome of transition-age youths with visual impairments. *Journal of Visual Impairment & Blindness*, 107(1), 43-53.
- Zhou, L., Ajuwon, P.M., Smith, D.W., Griffin-Shirley, N., Parker, A. T., & Okungu, P. (2012). Assistive technology competencies for teachers of students with visual impairments: A national study. *Journal of Visual Impairment & Blindness*, 106(10), 656-665.

- Smith, D.W., & Smothers, S. (2012). The role and characteristics of tactile graphics in secondary mathematics and science textbooks in braille. *Journal of Visual Impairment & Blindness*, 106(9), 543-554.
- Pogrud, R., & Smith, D.W. (2012). Impact of a short-term training model on assistive technology for preservice teachers of students with visual impairments. *Insight: Research and Practice in Visual Impairment & Blindness*, 5(2), 100-110.
- Zhou, L., Griffin-Shirley, N., Kelly, P.A., Banda, D., Lan, W., Parker, A.T., & Smith, D.W. (2012). The relationship between computer and internet use and standardized test performance of secondary school students with visual impairments. *Journal of Visual Impairment & Blindness*, 106(10), 609-621.
- Rosenblum, L.P., & Smith, D.W. (2012). Instruction in specialized braille codes, abacus, and tactile graphics at universities in the United States and Canada. *Journal of Visual Impairment & Blindness*. 106(6), 339-350.
- O'Brien, J.L., & Smith, D.W. (2012). To share or not to share: The "Pothead" notebook and FERPA. *Journal of Cases in Educational Leadership*, 15(2), 41-47
- Smith, D.W., & Amato, S. (2012). Accommodations for students with visual impairments on high-stakes tests. *Journal of Visual Impairment & Blindness*, 106(5), 299-304.
- Zhou, L., Smith, D.W., Parker, A.T., & Griffin-Shirley, N. (2011). Assistive technology competencies of teachers of students with visual impairments: A comparison of perceptions. *Journal of Visual Impairment & Blindness*, 105(9), 533-547.
- Beal, C. R., Rosenblum, L.P., & Smith, D.W. (2011). A pilot study of a self-voicing computer program for pre-algebra math problems. *Journal of Visual Impairment & Blindness*, 105(3), 157-169.
- Kelly, S., & Smith, D.W. (2011). Assistive technology used by students with visual impairments: A review of 35 years of the literature. *Journal of Visual Impairment & Blindness*, 150(2), 73-83.
- Zhou, L., Parker, A.T., Smith, D.W., & Griffin-Shirley, N. (2011). Assistive technology for students with visual impairments: Challenges and needs in teachers' preparation programs and practice. *Journal of Visual Impairment & Blindness*, 105(4), 197-210.
- Smith, D.W., Kelley, P.A., Maushak, N., Griffin-Shirley, N., & Lan, W.Y. (2009). Assistive technology competencies for teachers of students with visual impairments: A Delphi study. *Journal of Visual Impairment & Blindness*, 103(8), 457-469.
- Sahfi, M.Y., Zhou, L., Smith, D.W., Kelley, P.A. (2009). A survey of the integration of assistive technology knowledge into international teacher training programs for individuals with visual impairments. *Journal of Visual Impairment & Blindness*, 103(9), 562-568.
- Griffin-Shirley, N., Pogrud, R.L., & Smith, D.W. (2009). A three-phase qualitative study of dual-certified vision education professionals in the Southwest. *Journal of Visual Impairment & Blindness*, 103(6), 354-366.

Smith, D.W., Griffin-Shirley, N., Poggrund, R.L., Lan, W., Dignan, K.C., & Marsh, R.A. (2007). A survey of dual-certified vision professionals in Texas. *RE:view*, 39(1), 15-25.

Smith, D. W., & Kelley, P.A. (2007). A survey of the integration of assistive technology knowledge into teacher preparation programs for individuals with visual impairments. *Journal of Visual Impairment & Blindness*, 101(7), 429-433.

Smith, D.W. (2006). Developing mathematical concepts for students with visual impairments and blindness through orientation and mobility. *RE:view*, 37(4), 161-165

Refereed Conference Papers

Kluth, T., Contreras, G., Allee, W., Robinson, W., Roy, N., Williams, H., Hoffman, A., Smith, D.W., Blaser, B., Gorlewicz, J., Guidice, N., & Stefik, A. (2026). In *Proceedings of the 57th ACM Technical Symposium on Computer Science Education V. 2* (SIGCSETS 2026). Association for Computing Machinery, New York, NY, USA, 1718.

Tabassum, M., Gray, J., & Smith, D.W. (2024). An accessible blocks language for students with and without visual impairments. In *SIGCSE 2024, Portland, OR*.

Smith, D.W. (2017). Moving on, moving out in education and Employment: Focusing on authentic mathematics through orientation and mobility. In *16th International Mobility Conference Proceedings, Dublin, Ireland*.

Zollars, R., Hundhausen, C., & Smith, D.W. (2015). Assessing studio-based learning in a material/energy balance classes. In *American Society for Engineering Education Annual Conference & Exposition Proceedings, Seattle, WA, USA*.

Smith, D.W., & Kelly, S. (2014). A research agenda for assistive technology used by students with visual impairments. In *Journal on Technology and Persons with Disabilities*. San Diego, CA, USA.

Smith, D.W., Dillihunt, M.L., Farrington, P.A., Benfield, M.P.J., & Turner, M.W. (2012). Impact of Integrated Product Team course on skill development and workplace preparation for graduating engineering seniors. In *American Society for Engineering Education Annual Conference & Exposition Proceedings*. San Antonio, TX, USA.

Dillihunt, M.L., Smith, D.W., Farrington, P.A., Turner, M.W., & Benfield, M.P.J. (2012). Impact of Innovative Student Project for the Increased Recruitment of Engineering and Science Students (InSPIRESS). In *American Society for Engineering Education Annual Conference & Exposition Proceedings*. San Antonio, TX, USA.

Stefik, A., Hundhausen, C.D., & Smith, D.W. (2011). On the design of an educational infrastructure for the blind and visually impaired in computer science. In *Proceedings ACM SIGSCE 2011*. Dallas, TX, USA.

Curricula

Smith, D.W., & Wicker, J. (2013). *MathBuilders-Unit 5: Measurement*. Louisville, KY: American Printing House for the Blind.

Smith, D.W., & Wicker, J. (2011). *MathBuilders-Unit 7: Fractions, mixed numbers, and decimals*. Louisville, KY: American Printing House for the Blind.

Smith, D.W., & Wicker, J. (2009). *MathBuilders-Unit 8: Data collection, graphing, and probability/statistics*. Louisville, KY: American Printing House for the Blind.

Smith, D.W., & Wicker, J. (2007). *MathBuilders-Unit 6: Geometry*. Louisville, KY: American Printing House for the Blind.

Non-Refereed Articles and Activities

Smith, D.W. (2013). New research and development of software to support math education. *The Driving Force: AER Itinerant Personnel News Journal*, 20(4), 3-4.

Smith, D.W. (2012). This mattered to me. *Journal of Visual Impairment & Blindness*, 106(7), 440-442.

Smith, D.W. (2011). Issues of assistive technology in personnel preparation programs. *DVIQuarterly*, 56(3), 26-27.

Smith, D.W. (Guest Editor). (2010). Special issue on "The Future of the Field". *DVIQuarterly*, 55(3).

Smith, D.W., & Wild, T. (2006). Least restrictive environment for students with visual impairments: Issue brief. *Journal of Visual Impairment & Blindness*, 100(10), 592-593.

Smith, D.W. (Guest Editor). (2004). Special issue on secondary education. *DVIQuarterly*, 50(1).

Smith, D.W. (2003). Presenting for the first time. *DVIQuarterly*, 48(4), 13-14.

Smith, D.W. (2003). Technology of tomorrow...today! *DVIQuarterly*, 48(3), 5-7.

Smith, D.W. (2002). The typical responses. *DVIQuarterly*, 48(1), 12-13.

Smith, D.W. (2002). My inaugural CEC annual international convention. *DVIQuarterly*, 47(4), 53-54.

Reviews

Smith, D.W. (2008). Book review of *Mathematics Made Easy for Children with Visual Impairment*. *RE:view*, 39(3), 149-152.

Smith, D.W. (2008). Conference review of the 2008 Council for Exceptional Children Convention and Expo. *Journal of Visual Impairment & Blindness*, 102(5), 307-310.

PRESENTATIONS

Invited

Smith, D.W. (October, 2023). *Infusing the Expanded Core Curriculum into the Core Curriculum*. Alabama AER Convention, Opelika, AL.

- Wild, T., Smith, D.W., & Fast, D. (November, 2022). *Creation of the National Agenda for STEM Education for Students with Visual Impairments*. OCALICONLINE, online.
- Smith, D.W. (April, 2022). *Numeracy for Students with Visual Impairments*. Georgia Academy for the Blind, Macon, GA. (Zoom)
- Smith, D.W. (November, 2019). *Numeracy for Students with Visual Impairments*. 31st Annual Unity Conference, Nashville, TN.
- Smith, D.W. (June, 2019). *Collaborative Teaching Mathematics as a TVI*. AIDB SOAR Conference, Talladega, AL.
- Smith, D.W. (October, 2018). *The Roots of a Strong Profession*. AER of Ohio State Conference, Mt. Sterling, OH.
- Smith, D.W. (October, 2017). *Nemeth Code Review 1: A Refresher Course on Common Nemeth Code*. Indiana PASS Project, Indianapolis, IN.
- Smith, D.W. (May, 2017). *Tools of the Trade: Infusing Technology and Manipulatives into Math and Science Education for Students with Visual Impairments*. Indiana PASS Project, Indianapolis, IN.
- Smith, D.W. (October, 2016). *Unraveling Nemeth Code*. Invited Session at the Alabama AER Conference, Mobile, AL.
- Smith, D.W. (October, 2015). *The Future of the Field*. Invited Closing Session at the Alabama AER Conference, Ivy Green, AL.
- Smith, D.W. (October, 2014). Breakout Session: *The Literacy of Numbers: Focusing on Numeracy with Students with Visual Impairments*. Invited presentation at the West Virginia Conference for Educators of Students with Sensory Impairments, Romney, WV.
- Smith, D.W. (July, 2014). Keynote Opening Session: *Critical Emerging Issues in Special Education of Students with Visual Impairments and Visual Impairments*. Invited presentation at the West Virginia Association for the Education and Rehabilitation of the Blind and Visually Impaired Conference, Terra Alta, WV.
- Smith, D.W. (July, 2014). Breakout Session: *Teaching Common Core State Math Standards to Students with Visual Impairments*. Invited presentation at the West Virginia Association for the Education and Rehabilitation of the Blind and Visually Impaired Conference, Terra Alta, WV.
- Smith, D.W. (December, 2013). Showcase Session: *The Literacy of Numbers: A Case for Strengthening Numeracy in Students with Visual Impairments*. Invited presentation at the 11th Biennial Getting in Touch with Literacy Conference, Providence, RI.
- Smith, D.W. (October, 2012). Keynote Presentation: *Assistive Technology Competencies for TVIs*. Invited presentation at the Tennessee School for the Blind Unity Conference, Nashville, TN.

- Smith, D.W. (October, 2012). *Collaborative Relationships Between Math Educators and TVIs*. Invited presentation at the Tennessee Association for the Education and Rehabilitation of the Blind and Visually Impaired Conference, Nashville, TN.
- Sewell, D., Smith, D.W., Wright, L., Henderson, B., & Wicker, J. (October, 2012). *Math: Always Needs More Than the Extra Mile*. Invited presentation at the American Printing House for the Blind, Annual Meeting, Louisville, KY.
- Smith, D.W. (March, 2012). *Teaching Algebra and Geometry to Students with Visual Impairments*. Invited presentation at the North Carolina Conference on Visual Impairment and Blindness, Raleigh, NC.
- Smith, D.W. (November, 2010). *Issues and Strategies for Teaching Mathematics to Students with Visual Impairments*. Invited presentation at the 45th Annual Exceptional Children's Conference, Louisville, KY.
- Smith, D.W. (November, 2010). *Tactile Graphicacy: Teaching Students with Visual Impairments to Understand Tactile Graphics*. Invited presentation at the 45th Annual Exceptional Children's Conference, Louisville, KY.
- Smith, D.W. (October, 2010). *American Pi! Teaching Mathematics to Students with Visual Impairments*. Invited presentation at the American Printing House for the Blind Annual Meeting, Louisville, KY.
- Smith, D.W. (June, 2010). *The Mathematics of Movement: O&M and Math Education*. Invited presentation at the 2010 Texas Focus Conference, Plano, TX.
- Smith, D.W. (June, 2010). *APH MathBuilders and Geometro*. Invited presentation at the 2010 Texas Focus Conference, Plano, TX.
- Smith, D.W. (October, 2009). *New Tools for the New School Year-MathBuilders and Geometro*. Invited presentation at the American Printing House for the Blind Annual Meeting, Louisville, KY.
- Wicker, J., & Smith, D.W. (October, 2009). *Math Products-Coming Soon to a Classroom Near You!* Invited presentation at the American Printing House for the Blind Annual Meeting, Louisville, KY.
- Wicker, J., & Smith, D.W. (October, 2008). *MathBuilders: A Supplemental Math Program for Braille Users (K-3)*. Invited presentation at the American Printing House for the Blind Annual Meeting, Louisville, KY.
- Wicker, J., & Smith, D.W. (October, 2007). *MathBuilders: A Supplemental Math Program for Braille Users (K-3)*. Invited presentation at the American Printing House for the Blind Annual Meeting, Louisville, KY.

Refereed

- Smith, D.W., & Hollinger, K. (2025). *Inclusio: Supporting Graphicacy Across Multiple Mediums. Getting in Touch with Literacy: Launch to Literacy 2025*, Huntsville, AL.

- Smith, D.W. (2025). Inklusio: A One-Stop Shoppe for Accessible Graphics. 8th Biennial POSB STEM Institute for Instruction, Fremont, CA.
- Gardner, D., Guzman, D., & Smith, D.W. (2025). Inklusio: Generation of Interoperable, Accessible Graphics. 65th Annual Conference CTEBVI Conference, San Francisco, CA.
- Stefik, A., Allee, W., Contreras, G., Kluthe, T., & Smith, D.W. (2024). Blind Accessibility to Block Languages. 39th Annual CSUN Assistive Technology Conference, Anaheim, CA.
- Tennison, J., Gorlewicz, J., Smith, D.W., Stefik, A. (2023, March). Digital Graphicacy: Exploring Charts and Graphs with Haptics. 38th Annual CSUN Assistive Technology Conference, Anaheim, CA.
- Wild, T., & Smith, D.W. (2023, March). A Common Call: Accessible STEM for Students with Visual Impairments. Presented at the 2023 Principals of Schools for the Blind Math and Science Institute for Instruction, Louisville, KY.
- Wild, T., Smith, D.W., & Fast, D. (2023, March). A Common Call: Accessible STEM for Students with Visual Impairments. Presented at the 2023 Council for Exceptional Children Convention and Expo, Louisville, KY.
- Wild, T., Smith, D.W., Kelly, S., & Fast, D. (2022, July). Creation of the National Agenda for STEM Education for Students with Visual Impairments. Presented at the 2022 AERBVI International Conference, St. Louis, MO.
- Tennison, J.L., Goswami, S., Hairston, J.R., Smith, D.W., Giudice, N.A., Stefik, A., and Gorlewicz, J.L. (2022, July). Comparison of Traditional Methods to Emerging Technologies. Presented at the 2022 AERBVI International Conference, St. Louis, MO.
- Gorlewicz, J.L., Tennison, J.L., Uesbeck, P.M., Richard, M.E., Palani, H.P., Stefik, A., Smith, D.W., & Giudice, N.A. (October, 2020). Design guidelines and implementation case studies with touchscreen-based graphics. ACM ASSETS Conference, Virtual.
- Hairston, J.R., Williams, T., & Smith, D.W. (October, 2019). *Accessible Accommodations for Learning Cybersecurity*. Presented at ISLAND 2019 Conference, Huntsville, AL.
- Smith, D.W. (October, 2018). *Numeracy: The Importance of Math Literacy from Birth to Death*. Presented at the AER of Ohio State Conference, Mt. Sterling, OH.
- Schleppenbach, D., & Smith, D.W. (January, 2015). *Solving Math Input and Online Learning with MathHear*. Presented at the Assistive Technology Industry Association Conference, Orlando, FL.
- Smith, D.W. (July, 2014). *Exploring Online Algebra One Course for Students with Visual Impairments*. Presented at the Association for the Education and Rehabilitation of the Blind and Visually Impaired International Conference, San Antonio, TX.
- Summers, E., Brauner, D., & Smith, D.W. (July, 2014). Indoor navigation: A glimpse of the future. Presented at the Association for the Education and Rehabilitation of the Blind and Visually Impaired International Conference, San Antonio, TX.

- Kelly, S. & Smith, D.W. (April, 2014). *Assistive Technology Essentials for Students with Visual Impairments & Additional Disabilities*. Presented at the 29th Annual International Technology and Persons with Disabilities Conference, San Diego, CA.
- Kelly, S. & Smith, D.W. (April, 2014). *Assistive Technology for Students with Visual Impairments: A Research Agenda*. Presented at the 29th Annual International Technology and Persons with Disabilities Conference, San Diego, CA.
- Smith, D.W. (January, 2013). *National Study on Teachers of Students with Visual Impairments Assistive Technology Competence*. Presented at the Assistive Technology Industry Association Conference, Orlando, FL.
- Smith, D.W., Griffin-Shirley, N., Okungu, P., Zhou, L., Ajuwon, P., Parker, A.T. (July, 2012). *Assistive Technology Competencies for Teachers of Students with Visual Impairments: A National Study*. General Session Keynote presented at the Association for the Education and Rehabilitation of the Blind and Visually Impaired International Conference, Bellevue, WA.
- Rosenblum, L.P., & Smith, D.W. (July, 2012). *On the Road to Developing Nemeth Code Braille Code Competencies for Beginning TVIs: Findings of a Two-Part Study*. Presented at the Association for the Education and Rehabilitation of the Blind and Visually Impaired International Conference, Bellevue, WA.
- Smith, D.W., & Amato, S. (April, 2011). *Synthesis of Available Accommodations for Students with Visual Impairments on Standardized Assessments*. Presented at the Council for Exceptional Children Convention and Expo, National Harbor, MD.
- Zhou, L., Parker, A.T., Smith, D.W., & Griffin-Shirley, N. (April, 2011). *Assistive Technology Competencies Perceived and Possessed by Teachers of the Visually Impaired*. Presented at the Council for Exceptional Children Convention and Expo, National Harbor, MD.
- Smith, D.W., Zhou, L., & Parker, A.T. (October, 2010). *Assistive Technology Competencies for Teachers of Students with Visual Impairments: Validation Study*. Presented at the Assistive Technology Industry Association Conference, Chicago, IL.
- Smith, D.W. (April, 2009). *Equality in Mathematics for Students with Blindness and Visual Impairments*. Presented at the National Council for Teachers of Mathematics Convention and Expo, Washington, D.C.
- Smith, D.W. (April, 2009). *Assistive Technology Competencies for Teachers of Students with Visual Impairments: A Delphi Study*. Presented at the Council for Exceptional Children Conference and Expo, Seattle, WA
- Smith, D.W. (July, 2008). *Assistive Technology: Competencies and Courses (NCLVI Showcase)*. Presented at the Association for the Education and Rehabilitation of the Blind and Visually Impaired International Conference, Chicago, IL.
- Smith, D.W., Kelley, P.A., Griffin-Shirley, N., Maushak, N., & Lan, W. (July, 2008). *Assistive Technology Competencies for Teachers of Students with Visual Impairments: A Delphi Study*. Presented at the Association for the Education and Rehabilitation of the Blind and Visually Impaired International Conference, Chicago, IL.

- Pogrund, R.L., Griffin-Shirley, N., & Smith, D.W. (July, 2008). *Qualitative Study of the Effectiveness of the Dual-Certified Vision Professional Service Delivery Model*. Presented at the Association for the Education and Rehabilitation of the Blind and Visually Impaired International Conference, Chicago, IL.
- Sahfi, M., Zhou, L., Smith, D.W., & Kelley, P.A. (July, 2008). *Assistive Technology in Teacher-Training Programs: A National and International Perspective*. Presented at the Association for the Education and Rehabilitation of the Blind and Visually Impaired International Conference, Chicago, IL.
- Griffin-Shirley, N., Pogrund, R.L., Smith, D.W., & Duemer, L. (April, 2008). *A three-phase qualitative study of dual-certified vision education professionals in the Southwest*. Presented at the Texas Tech University College of Education Spring Research Conference, Lubbock, TX.
- Smith, D.W., & Kelley, P.A. (April, 2008). *Assistive Technology Integration into Teachers of Students with Visual Impairments University Programs*. Presented at the International Council for Exceptional Children Convention, Boston, MA.
- Griffin-Shirley, N., Pogrund, R.L., & Smith, D.W. (April, 2007). *Qualitative Study of the Effectiveness of the Dual-Certified Service Delivery Model*. Presented at the International Council for Exceptional Children Convention, Louisville, KY.
- Kelley, P., & Smith, D.W. (April, 2007). *Assistive Technology for Teaching in Inclusive Classroom*. Poster presented at the International Council for Exceptional Children Convention, Louisville, KY.
- Maushak, N., Kelley, P., & Smith, D.W. (April, 2007). *ATTIC: Assistive Technology for Teaching in the Inclusive Classroom*. Presented at the Society for Information Technology and Teacher Education Conference, San Antonio, TX.
- Pogrund, R.L., Griffin-Shirley, N., & Smith, D.W. (March, 2007). *The Effectiveness of the Dual-Certified Vision Professional Service Delivery Model: A Qualitative Study*. Presented at the Texas Association for the Education and Rehabilitation of the Blind and Visually Impaired Conference, Austin, TX.
- Smith, D.W. (September, 2006). *A qualitative study of the effectiveness of the dual-certified vision professional service delivery model*. Presented at the NCLID Fourth Research Summit on Low-Incidence Disabilities, Research in the Rockies Conference, Vail, CO.
- Smith, D.W. (March, 2006). *Closing the gap for students with visual impairments: A case study*. Presented at the Texas National Association for Multicultural Education (NAME) Conference, Lubbock, TX.
- Smith, D.W. (April, 2005). *Algebra and geometry for students with visual impairments and blindness*. Presented at the National Council for Teachers of Mathematics Annual Convention, Anaheim, CA.

Smith, D.W. & Amato, S. (April, 2004). *Strategies for teaching algebra and geometry to students with visual impairments and blindness*. Presented at the International Council for Exceptional Children Convention, New Orleans, LA.

Smith, D.W. (April, 2003). *Strategies for teaching mathematics to visually impaired and blind students*. Presented at the International Council for Exceptional Children Convention, Seattle, WA.

Smith, D.W. (November, 2002). *Teaching mathematics to students with visual impairments and blindness*. Presented at the Alabama Council for Teachers of Mathematics Convention, Montgomery, AL.

Invited Workshops

Smith, D.W. (November, 2023). Teaching Mathematics to Students with Visual Impairments. Sixth Annual Kansas Vision Symposium 2023, Wichita, Kansas

Smith, D.W. (October, 2022). Tools and Techniques for Teaching Mathematics to Students with Visual Impairments and Deaf-Blindness. Colorado Department of Education State Conference on Blindness/Visual Impairment and Deaf-Blindness, Denver, CO.

Smith, D.W. (January, 2020). Evidenced-Based Interventions for Math. Georgia Academy for the Blind, Macon, GA.

Smith, D.W. (October, 2013). National Instructional Partnership Workshop on Mathematics. Nebraska School for the Blind and Visually Impaired, Omaha, NE.

Smith, D.W. (February, 2013). National Instructional Partnership Workshop on Mathematics. Tennessee School for the Blind, Nashville, TN.

Smith, D.W. (June, 2012). *Nemeth Code by the Numbers*. Invited presentation at the Alabama Chapter of AER "Teach the Teachers" Conference, Talladega, AL.

Smith, D.W. (December, 2011). *Working with the Experts: Math Strategies and Tools for Students with Visual Impairments*. Invited presentation at the Florida Working with the Experts, Daytona, FL.

Smith, D.W. (October, 2009). *Math Counts! Instruction for Students who are Blind/Visually Impaired*. Invited workshop at the Colorado Department of Education Conference on Visual Impairments. Denver, CO.

PROFESSIONAL ACTIVITIES

Affiliations and Leadership Roles

Council for Exceptional Children (CEC), 2001-present

- Representative Assembly Committee, 2008-2010
 - Chair, 2010-2011

CEC Division on Visual Impairments and Deafblindness (DVIDB), 2001-present

- Past-President, 2014-2015

- President, 2012-2013
- President-Elect, 2010-2011
- Representative, 2007-2010
- Treasurer, 2005-2006
- Director, 2004
- Student Ambassador, 2002-2003
- Webmaster, 2007-2014
- Committees: Awards (chair, 2014-15), Elections (chair, 2014-15)

CEC Technology and Media Division (TAM), 2006-present

Alabama Federation Council for Exceptional Children, 2008-present

- Treasurer, 2009-2011

Association for the Education and Rehabilitation of the Visually Impaired and Blind (AER), 2001-present

- International Board of Directors, Region 5 Representative, 2020-2022
- International Publications Committee Member, 2008-2022
- International University Standards Review Committee, 2010-2014
- Alabama AER Director, 2018-2020

National Council for Teachers of Mathematics (NCTM), 2000-2026

Kappa Delta Pi Honor Society for Education, Nu Sigma Chapter, 2006-present

Computer Science Teachers Association (CSTA), 2012-present

American Society for Engineering Education (ASEE), 2011-2013

Association for Supervision and Curriculum Development (ASCD), 2014-2020

Phi Kappa Phi, 2024-present

Service (University)

- AUM Budget Advisory Committee, 2024-present
- AUM ADA and Accessibility Advisory Committee, 2024-2025
- UAH SACSCOC Integrity, Mission, & Governance Committee, 2023
- UAH Provost/Vice President of Academic Affairs Search Committee, 2021-22
- UAH Faculty180 Governance Committee, Co-Chair, 2019-2021
- UAH Presidential Search Advisory Committee, 2018-2019
- UAH Affirmative Action Committee, 2017-2020
- UAH SACSCOC Education Program Committee, 2014-2015
- UAH Title XI Committee, 2014-2019
- UAH Faculty Senate Representative for Department of Education, 2012-2015
 - Undergraduate Curriculum Committee, 2012-2015
 - Chair, 2013-2014
 - Faculty Senate Honors Council Representative
 - LMS Task Force Faculty Senate Representative, 2013-2014
 - Enrollment Management Committee Faculty Senate Representative, 2013
- UAH Faculty Advisor Kappa Delta Pi Chapter, 2012-2014
- UAH Faculty Advisor Student Council for Exceptional Children, 2008-2012

Service (Field)

- Ad-hoc Reviewer, National Science Foundation, USDOE Office of Special Education Programs, 2015-present
- Associate Editor (STEM education), *Journal of Visual Impairment & Blindness*, 2015-2021
- National Leadership Consortium in Sensory Disabilities, Management Team, 2015-2021

- Peer Reviewer, *Journal of Visual Impairment and Blindness*, 2005-2015, 2021-present
- Peer Reviewer, *Insight: Practice and Research in Visual Impairment*, 2009-2012
- Peer Reviewer, *Journal of Special Education Technology*, 2006-present
- Reviewer for Council for Exceptional Children (DVI) conference presentations, 2003-2012
- Webmaster for CEC-DVI, 2007-2012
- Doctoral Committee Member:
 - Li Zhou, Texas Tech University, 2010
 - Mohammad Sahfi, Texas Tech University, 2011
 - Tara Mason, Texas Tech University, 2014
 - Moumita Tabassum, University of Alabama, 2024
 - Jesse Hairston, University of Alabama in Huntsville, present

Service (Community)

- Co-Instructor of Sign Language courses through the West Huntsville church of Christ, 2016-2023
- Smokey Powell Center for Assistive Technology Advisory Board, 2014-2019
- Quorum Outreach and Research Foundation (QORF), Founding Board Member, 2013-present

Research and Teaching Grants

- ***U.S. Department of Education, Office of Special Programs*** (\$1,136,913), PI, “Project INVEST-AL: Increasing New Vision Teachers in Education for Alabama”, 2025-2030.
- ***National Security Agency*** (\$89,571.98), PI-Subward to UAH, “AUM GenCyber for Students with Visual Impairments and Blindness”, 2024-2025.
- ***U.S. Department of Education, Office of Special Programs*** (\$1,029,438), PI, “Project VIABLE: Visual Impairment and Applied Behavior Learning Experiences”, 2020-2024.
- ***National Science Foundation*** (\$64,947), PI, "Perceptual and Implementation Strategies for Knowledge Acquisition of Digital Tactile Graphics for Blind and Visually Impaired Students", 2017-2020.
- ***University of Alabama in Huntsville Research Infrastructure Funds (RIF) grant*** (\$5,245), PI, “Establishment of the STEM-VI Mathematics Research Laboratory Infrastructure”, 2014.
- ***University of Alabama in Huntsville Individual Investigator Distinguished Research (IIDR) grant*** (\$11,000), PI, "Investigating Audio Embossed Graphic Images for Individuals with Visual Impairments and Blindness", 2013-2014.
- ***National Science Foundation*** (\$300,000), PI, "EAGER: Promoting algebra learning through an accessible expression system for students with visual impairments and blindness", 2012-2014.
- ***University of Alabama in Huntsville Junior Faculty Distinguished Research (JFDR) Grant***, PI, (\$9,482). “The Characteristics and Role of Tactile Graphics in Secondary Mathematics and Science Textbooks in Braille”, 2010-11.
- ***New Mexico School for the Blind and Visually Impaired Collaborative Project Grant***, PI, (\$20,000). “The Impact of the System for Conceptualizing Spatial Concepts (SC)² on Science and Mathematics Content”, 2010-11.
- ***Alabama State Department of Education State Personnel Development Grant, Co-PI with Dr. Monica Dillihunt*** (\$15,000). “Collaboration in Secondary Education”, 2009.
- ***University of Alabama in Huntsville Instructional Improvement Grant***, PI, (\$2,950). “ATTICC: Assistive Technology for Teaching In Collaborative Classrooms”, 2009.

HONORS AND AWARDS

- *Alumni of the Year*, Faulkner University, 2013.
- *Alumni of the Year*, Department of Special Education, Leadership, Technology, and Foundations, University of Alabama at Birmingham, 2008
- *National Dissertation of the Year*, Council for Exceptional Children Division on Visual Impairments, 2008
- *Outstanding Doctoral Student of the Year*, Texas Tech University College of Education, 2007
- National Center for Leadership in Visual Impairments (NCLVI) Fellowship, \$20,720 plus tuition/year, 2005-present.
- Helen DeVitt Jones Graduate Fellowship, Texas Tech University, \$10,550/year, 2005-present.
- *Virginia Sowell Student of the Year Award*, Council for Exceptional Children Division on Visual Impairments, 2003
- Alabama AER/UAB Student Membership Award, 2001

SKILLS AND ABILITIES

- Computer Software Skills: Faculty180/RPT (Interfolio), TK20, SPSS, NVivo, Blackboard, Canvas, Moodle, and Microsoft Office Suite
- Intermediate American Sign Language (ASL), UEB Braille, Nemeth Braille Code