

NATALIE L SHAHEEN

Curriculum Vitae

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EDUCATION

- 2019 **Ed.D. in Instructional Technology**
Towson University, Towson, MD
Dissertation title: The Five Elements of Technology Accessibility
Policy Enactment in K-12: A Grounded Theory
- 2007 **M.Ed. in Blindness and Visual Impairment**
The Ohio State University, Columbus, OH
- 2006 **B.S.Ed. in Special Education**
Ohio University, Athens, OH

PROFESSIONAL APPOINTMENTS AND EXPERIENCE

- 2019-Present **Assistant Professor, Department of Special Education**
Illinois State University, Normal, IL
- 2015-Present **Educational Consultant**
Sole Proprietor, Normal, IL
- 2011-2015 **Director of Education**
National Federation of the Blind, Baltimore, MD
- 2009-2011 **Education Program Specialist**
National Federation of the Blind, Baltimore, MD
- 2008-2009 **Teacher of the Visually Impaired,**
Indiana School for the Blind and Visually Impaired, Indianapolis, IN
- 2007-2008 **Teacher of the Visually Impaired**
Clark County School District, Las Vegas, NV
- 2006-2007 **Classroom Special Education Teacher**
Oakstone Community School, Columbus, OH

PUBLICATIONS

Refereed Publications

- 2022 **Shaheen, N. L.** (in press). Technology accessibility: How U.S. K-12 schools are enacting policy and addressing the equity imperative. *Computers & Education*. 10.1016/j.compedu.2021.104414
- 2021 **Shaheen, N. L.** (2021). Accessibility4Equity: Crippling technology-mediated compulsory education through sociotechnical praxis. *British*

- Journal of Educational Technology*. Advanced online publication. 10.1111/bjet.13153
- 2021 Goodridge, W. H., **Shaheen, N. L.**, and Bartholomew, S. (2021). Initial recommended line standards for tactile blind and low-vision accessible drafting curriculum. Manuscript submitted for publication.
- 2021 Timko, G., **Shaheen, N. L.**, & Goodridge, W. (2021). Spatial thinking, STEM instruction, and learning: No vision required. Manuscript in preparation.
- 2020 Goodridge, W. H., **Shaheen, N. L.**, & Bartholomew, S. (2020). Teaching technology & engineering concepts through socially relevant contexts: Adapting older engineering graphics methods to facilitate new opportunities in our school systems for blind and low vision youth. *Technology and Engineering Teacher*. 79(6), 33-37. Retrieved from <https://www.iteea.org>
- 2020 Wild, T., **Shaheen, N. L.**, Fast, D. K., Averill, J., Koehler, K., & Farrand, K. (2020). Students' with blindness and visual impairments level of engagement in science and engineering practices. *Journal of Science Education for Students with Disabilities*. 24(1), Article 1. <https://scholarworks.rit.edu/jsesd/vol24/iss1/1/>
- 2019 **Shaheen, N. L.**, & Lohnes Watulak, S. (2019). Bringing disability into the discussion: Examining technology accessibility as an equity concern in the field of instructional technology. *Journal of Research on Technology in Education*. 51(1), 187–201. doi: 10.1080/15391523.2019.1566037
- 2018 Farrand, K. M., **Shaheen, N. L.**, Wild, T., Averil, J., & Fast, D. (2018). Improving student self-efficacy: The role of inclusive and innovative out of school programming for students with blindness and visual impairments. *The Journal of Blindness Innovation and Research*, 8(2). Retrieved from <https://nfb.org/jbir>
- 2018 **Shaheen, N. L.**, & Lazar, J. (2018). K-12 technology accessibility: The message from state governments. *The Journal of Special Education Technology*, 33(2), 83-97. doi:10.1177%2F0162643417734557
- 2016 Wojton, M. A., Heimlich, J., & **Shaheen, N. L.** (2016). Accommodating blind learners helps all learners. *Journal of Museum Education*, 41(1), 59-65. doi: 10.1080/10598650.2015.1126150
- 2013 **Shaheen, N. L.** (2013). #BrlChat: Free professional development from the comfort of your home! *Division of Visual Impairments Quarterly*, 58(4), 18-23. Retrieved from <http://community.cec.sped.org/dvi/publications>

Non-Refereed Publications

- 2020 **Shaheen, N. L.** (2020, October 27). The Hardest Part About Being Disabled Is Not Disability. *ARIS Newsletter*.
<https://www.researchinsociety.org/news/2020258>
- 2019 **Shaheen, N. L.** (2019). A place of one's own: The 2019 NFB EQ !Program. *Future Reflections*, 38(3).
- 2016 **Shaheen, N. L.** (2016). The National Center for Blind Youth In Science: Increasing blind people's access to informal STEM learning opportunities. *Future Reflections*, 35(2).
- 2014 **Shaheen, N. L.** (2014). Science, technology, engineering, and math to the extreme. *Future Reflections*, 33(1), 32-35.
- 2013 **Shaheen, N. L.** (2013). The 2012 Braille symposium providing high-quality Braille instruction to blind children and adults. *Braille Monitor*, 56(2), 91-94.
- 2012 **Shaheen, N. L.** (2012). Charting our own course NFB project innovation. *Braille Monitor*, 55(9), 792-804.
- 2011 **Shaheen, N. L.** (2011). Driving change: The 2011 NFB Youth Slam. *Braille Monitor*, 54(10), 836-849.
- 2011 **Shaheen, N. L., Otwell, J.,** (2011). One summer, fifty blind children, five states, and six BELLS. *Braille Monitor*, 54(1), 7-9.
- 2011 **Shaheen, N. L.** (2011). Braille readers are leaders 2010-2011. *Future Reflections*, 30(3), 51-53.
- 2010 **Shaheen, N. L.** (2010). Ringing a BELL for Braille literacy. *Braille Monitor*, 53(1), 59-61.
- 2010 **Shaheen, N. L.** (2010). Leading the Way: The 2009-2010 Braille Readers Are Leaders Contest. *Future Reflections*, 29(3), 55-58.
- 2010 **Shaheen, N. L.** (2010). Without exception: Teaching the skills of blindness to children with additional disabilities. *Future Reflections*, 29(2), 6-8.

AWARDS AND FELLOWSHIPS

- 2021 **Dr. Jacob Bolotin Award**
National Federation of the Blind, Baltimore, MD
- 2020 **Impact Award**
Illinois State University, Normal, IL
- 2020 **Graduate Student Research Award**
Towson University, Towson, MD
- 2017 **President's Diversity and Inclusion Award**

Towson University, Towson, MD

2017

Terminal Degree Fellowship

Towson University, Towson, MD

2013

New Leader Award and Hall of Fame Induction

The Ohio State University, Columbus, OH

GRANTS

2019

Renoe, S. D., Tubon, T., & **Shaheen, N. L.** (2019). Workshop: Broadening participation of persons with disabilities in STEM. National Science Foundation grant no. 1940655, \$49,748, 1 year.

2019

Lewis, A., & **Shaheen, N. L.** (2019). National Federation of the Blind STEM2U. General Motors grant no. 54720007, \$118,010.45, 1 year.

2017

Lewis, A., Goodridge, W. H., & **Shaheen, N. L.** (2017). Spatial Ability and Blind Engineering Research Project. National Science Foundation grant no. 1712887, \$2.09 million, 5 years.

2013

Riccobono, M., Wild, T., Reich, C., & **Shaheen, N. L.** (2013). National Center for Blind Youth in Science. National Science Foundation grant no. 1322855, \$1.5 million, 3 years

INVITED PRESENTATIONS

2021

Shaheen, N. L., Cataquiz, A., Sprecher, A. (2021, October 23). My Summer in NFB EQ. Virtual presentation at the NFB of Illinois State Convention. Lisle, IL.

2021

Shaheen, N. L. (2021, July 30). Disability Power Hour: Equitable and Accessible Education. Virtual presentation to the Houston Mayor's office for People with Disabilities. Houston, TX.

2021

Shaheen, N. L., Gibbs, E., Osterhaus, S. (2021, July 8). Methods of Teaching STEM to the Blind. Virtual presentation at the NFB Science and Engineering Division Annual meeting. Baltimore, MD.

2020

Shaheen, N. L. (2020, December 15). Dismantling the Compulsory Sightedness of STEM Education and Empowering Blind Learners. Keynote presented virtually at the *Dare to Be Remarkable Conference*. Baltimore, MD.

2020

Shaheen, N. L. (2020, October 31). The Untold Story: An Autoethnography of Privilege. Plenary session presentation presented virtually at the *2020 NFB of Illinois Convention*. Chicago, IL.

2020

Shaheen, N. L. (2020, February 13). Technology accessibility: How professionals in the field of blindness can lead critical change in instructional technology practices. Keynote presented at the *Illinois*

- Association of Education and Rehabilitation of the Blind and Visually Impaired Conference*. Naperville, IL.
- 2019 **Shaheen, N. L.**, Goodridge, W. H. (2019). Education, research, and raising expectations: Exploring spatial abilities and training blind engineers. Plenary session presented at the *National Convention of the National Federation of the Blind*. Las Vegas, NV.
- 2018 McSorley, J., **Shaheen, N. L.**, & Krevor-Weisbaum, S. (2018). Pushing the needle forward on K-12 accessibility. Preconference session presented at *AccessU*. Austin, TX.
- 2016 **Shaheen, N. L.**, Heimlich, J., & Hammond, F. (2016). A community of practice: The Federation in science, technology, engineering, art, and math. Plenary session presented at the *National Convention of the National Federation of the Blind*. Orlando, FL.
- 2015 **Shaheen, N. L.** (2015). Without exception: Skills for today's classroom and tomorrow's world. Keynote address to the *National Federation of the Blind of Illinois Teacher, Parent, and Student Conference*. Chicago, IL.
- 2014 **Shaheen, N. L.** (2014). Success: The advice I never received. Keynote address at *Empowering Blind Students in Science and Engineering: A Professional Development Workshop for Blind Students in Science and Engineering*. Seattle, WA.
- 2013 Chakraborty, J., **Shaheen, N. L.**, & Mason, A. (2013). Accessibility and its application to game design. Talk presented at the *Baltimore Independent Game Seminar*. Baltimore, MD.
- 2013 **Shaheen, N. L.** (2013). The National Federation of the Blind: The cornerstone of a great professional learning network. Talk presented at the *National Federation of the Blind of Nevada Student Seminar*. Las Vegas, NV.
- 2013 **Shaheen, N. L.**, Whittle, J., Peret, M., Blake, L., Simpson, M., Martinez, L., & DeWall, G. (2013). The poetry of motion, the grace of movement, the delight of physical expression: Blindness no barrier. Plenary session presentation at the *National Convention of the National Federation of the Blind*. Orlando, FL.
- 2012 **Shaheen, N. L.** (2012). Twitter: A tool for teachers. Presentation at the *National Federation of the Blind Teacher Leader Seminar*. Baltimore, MD.

REFEREED CONFERENCE PRESENTATIONS

- 2022 Green, T., Kane, D. **Shaheen, N. L.**, Timko, G. and Goodridge, W. H. (2022, June 26-29). Advantages and disadvantages of a virtual engineering experience during COVID-19 for blind and low-vision high school students. Proposal submitted to the *128th Annual*

- Conference Proceedings of the American Society for Engineering Education*, Minneapolis, MN.
- 2022 Green, T., Kane, D., **Shaheen, N. L.**, Timko, G. and Goodridge, W. H. (2022, June 26-29). Spatial language used by blind and low-vision high school students during a virtual engineering program (Research). Proposal submitted to the *128th Annual Conference Proceedings of the American Society for Engineering Education*, Minneapolis, MN.
- 2022 Kane, D., Green, T., **Shaheen, N. L.**, Goodridge, W. H., (2022). A Qualitative Study of Spatial Strategies in Blind and Low Vision Individuals. 2022 ASEE Zone IV Conference Proceedings, Vancouver, BC.
- 2021 Goodridge, W. H., **Shaheen, N. L.**, Hunt, A., & Kane, D. (2021, July 26-29). The development of a tactile spatial ability instrument for assessing spatial ability in blind and low vision populations: A work in progress. *127th Annual Conference Proceedings of the American Society for Engineering Education*, Long Beach, CA.
- 2020 **Shaheen, N. L.** (2020, April 17-21). Conceptualizing access: Technology-Enhanced K-12 education and disabled students [Paper Session]. *AERA Annual Meeting*, San Francisco, CA <http://tinyurl.com/tpmkpzb> (conference canceled).
- 2020 Lopez, S. E., Goodridge, W. H., Gougler, I., Kane, D., & **Shaheen, N. L.** (2020, April 17-21). Preliminary validation of a spatial ability instrument for the blind and low vision [Roundtable Session]. *AERA Annual Meeting*, San Francisco, CA <http://tinyurl.com/qlemtgm> (conference canceled).
- 2020 **Shaheen, N. L.** (2020). Web Accessibility policy enactment in K-12. Paper presented virtually at the *35th Annual CSUN Assistive Technology Conference*, Anaheim, CA
- 2019 **Shaheen, N. L.**, & Lohnes Watulak, S. (2019). From liability to opportunity: Ensuring web accessibility through technology leadership and teacher education. Paper presented at the *Society for Information Technology and Teacher Education International Conference*, Las Vegas, NV.
- 2018 **Shaheen, N. L.**, & Lohnes Watulak, S. (2018). Technology accessibility: A social justice concern for K-12 instructional technology and teacher education. Paper presented at the *Society for Information Technology and Teacher Education International Conference*, Alexandria, VA.
- 2018 Ashby, T., Goodridge, W. H., Call, B. J., Lopez, S. E., **Shaheen, N. L.**, (2018). Adaptation of the Mental Cutting Test for use among the blind or visually impaired. Paper presented at the *American Society of Engineering Education Zone IV Conference*, Boulder, CO.

- 2015 **Shaheen, N. L.** (2016). Access to the curriculum through mainstream and assistive technologies. Paper presented at the *World Blind Union-International Council for Education of People with Visual Impairment Joint Assembly*. Orlando, FL.
- 2014 Krevor-Weisbaum, S., **Shaheen, N. L.**, Wesler, J. (2014). Advances in blindness advocacy: Power tools in the toolbox. Paper presented at the *Council of Parent Attorneys and Advocates 16th Annual Conference*. Baltimore, MD.

WORKSHOPS AND GUEST LECTURES

- 2021 Empowering blind students in STEM learning environments (2021, June 26).
Teacher of Tomorrow Program, presenter, 2-hour workshop for inservice teachers of blind students
- 2021 Supporting the person, not the diagnosis: Blindness and additional disabilities (2021, February 18)
National Organization of Parents of Blind Children, presenter, webinar for parents of blind children
- 2021 How to be an #A11y (2021, January 26)
Illinois State University, guest lecture, middle-grades general education class
- 2020 Connecting the DOTS: Accessible learning (2020, November 18)
Illinois State University, organizer and host, webinar for inservice and preservice K-12 teachers
- 2020 The education of blind students (2020, May 7)
Colorado Center for the Blind, guest lecture, adult vocational rehabilitation class
- 2020 Broadening participation of persons with disabilities in STEM (2020, March 17-18)
Advancing Research Impacts in Society, Co-chair and organizer, two-day workshop for scholars and STEM professionals
- 2020 Technology accessibility #RemoteLearningChat (2020, April 16)
Towson University, moderator, twitter chat for K-12 teachers and instructional technologists
- 2020 Blind students with additional disabilities (2020, January 29)
Louisiana Tech University, guest lecture, master's blindness class
- 2019 That's how blind students do STEM
Central Affiliation for Special Education, professional development workshop for teachers of the blind
- 2019 Career connect: Being a blind teacher

- Indiana School for the Blind and Visually Impaired, workshop for high school teachers and students
- 2018 Equity and access in instructional technology
Towson University, guest lecture, doctoral instructional technology class
- 2017 Technology accessibility and change
Towson University, facilitator of online learning module, doctoral educational leadership class
- 2017 Collaborating with parents
Towson University, guest lecture, graduate special education class
- 2016-2018 Video description: Blind people as consumers and producers of media
Towson University, guest lecture, undergraduate disability studies class
- 2016-2018 Blindness: An introduction
Johns Hopkins University, guest lecture, undergraduate neuroscience class
- 2016 Making STEM Accessible
National Federation of the Blind, organizer and facilitator, four-day inservice teacher professional development workshop
- 2015-2017 Blind students as learners
Towson University, guest lecture, graduate special education class
- 2015-2016 Baltimore Global Accessibility Awareness Day Seminar
Organizer and facilitator, annual workshop for administrators and technologists
- 2015 Individualized Education Program Advocacy
National Federation of the Blind of Virginia, organizer and facilitator, one-day parent and advocate workshop
- 2015 The blind child: Ages and stages
National Federation of the Blind, facilitator, parent workshop
- 2013 Blind students as twenty-first century learners
Maryland Department of Education, facilitator, inservice teacher professional development workshop
- 2012-2015 Blind students as learners
University of Maryland, guest lecture, undergraduate special education class
- 2012-2014 #BrlChat: A Twitter chat for teachers of the blind
Founder and moderator, monthly inservice teacher professional development
- 2012 Teacher Leader Seminar
National Federation of the Blind, organizer and facilitator, three-day inservice teacher professional development workshop

TEACHING

2021-Present	Member , Hernandez, C. L. dissertation committee, The George Washington University
2022, Spring	Personnel Preparation In Special Education (doctoral-level) , Illinois State University
2021, Fall	Access Technology for Students with Visual Impairments (graduate-level) , Illinois State University
2022, Spring; 2021, Spring; 2020, Spring	Orientation and Mobility for Classroom Teachers , Illinois State University
2022, Spring; 2021 Spring; 2020, Spring	Advanced Assistive Technology for Individuals with Visual Impairments , Illinois State University
2021, Fall; 2020, Fall; 2019, Fall	Assistive Technology for Individuals with Visual Impairments , Illinois State University
2021, Fall; 2020, Fall; 2019, Fall	The Exceptional Learner , Illinois State University
2019, Spring	Action Research in Special Education (graduate-level) , Towson University

PROFESSIONAL SERVICE

2021-Present	Member , Illinois State University College of Education Technology Committee
2020-Present	Member , National Blindness Professional Certification Board National Certification in Access Technology Working Group
2020-Present	Member , Illinois State University Department of Special Education Undergraduate Ad Hoc Committee
2020-Present	Member , NFB of Illinois Diversity and Inclusion Committee
2020-Present	Member , Advancing Research Impact in Society Leadership Team
2020-2021	Member , Advancing Research Impact in Society Training Committee
2020-2021	Reviewer , <i>Journal of Blindness Innovation and Research</i>
2019-2020	Member , Illinois State University Department of Special Education Masters Ad Hoc Committee
2019-2020	Co-Chair , Broadening Participation of Persons with Disabilities in STEM Symposium
2019-Present	Member , Illinois State University Department of Special Education SEAT Committee

- 2019-Present **Member**, National Federation of the Blind's Committee for the Advancement and Promotion of Braille
- 2018-Present **Reviewer**, *International Journal of Information and Learning Technology*
- 2018-Present **Reviewer**, *Journal of Research on Technology in Education*
- 2017-Present **Member**, National Federation of the Blind Research Advisory Counsel
- 2017 **Member**, Maryland State Leadership Team for Accessible Educational Materials Best Practices
- 2016-2017 **Guest Blogger**, *Kennedy Krieger Linking Research to Classroom Blog*,
- 2012 **Symposia Organizer**, National Federation of the Blind Braille Symposium

LICENSURE

- 2018-2028 Intense Intervention
State of Indiana teaching license
- 2018-2028 Mild Intervention
State of Indiana teaching license
- 2018-2028 Blind and Low Vision
State of Indiana teaching license

PROFESSIONAL AFFILIATION

American Educational Research Association
National Federation of the Blind
Society for Disability Studies
Society for Information Technology and Teacher Education