

Sharon Eve Sonenblum, PhD

Associate Professor (Tenure Track)

Nell Hodgson Woodruff School of Nursing, Emory University

EDUCATION

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|--------------|---|--|
| August, 2009 | PhD in Bioengineering <i>Dissertation: Biomechanical responses to seated full body tilt and their relationship to clinical application</i> | Georgia Institute of Technology, Atlanta, GA |
| May, 2003 | ScM in Bioengineering <i>Dissertation: "In vivo motion of the scaphotrapezio-trapezoidal (STT) joint"</i> | Brown University, Providence, RI |
| May, 2002 | ScB in Mechanical Engineering | Brown University, Providence, RI |

HONORS & AWARDS

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|-----------|--|---|
| 2024 | Best Poster Award | National Pressure Injury Advisory Panel Annual Conference |
| 2022 | Supporting Society Project Award 2 nd Place Delmore, B., M. Deppisch, J. Cox, D. Newton, C. Gillespie, J. Todd, and S.E. Sonenblum. "Necessary Products Required for the Prevention and Treatment of Pressure Injuries: Lessons Learned that Translate Beyond COVID-19 Pandemic," <i>World Union Wound Healing Societies 2022</i> . Dubai. | World Union Wound Healing Society |
| 2019 | Finalist in Poster Competition | RehabWeek |
| 2010 | Best Paper Presenting Original Research Findings | Shepherd Center Research Day |
| 2010 | Winner of the Student Scientific Paper Competition | Rehabilitation Engineering Society of North America |
| 2009 | Best Paper Presenting Original Research Findings | Shepherd Center Research Day |
| 2005-2009 | Presidential Fellow | Georgia Institute of Technology |
| 2005-2009 | Graduate Research Fellow | National Science Foundation |

PROFESSIONAL EXPERIENCE

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|--------------|--|---|
| 2023-Present | Associate Research Professor | Nell Hodgson Woodruff School of Nursing, Emory University, Atlanta, GA |
| 2025-Present | Program Faculty | Biomedical Engineering, Georgia Institute of Technology and Emory University, Atlanta, GA |
| 2009-Present | Clinical Research Scientist (Courtesy Appointment) | Shepherd Center, Atlanta, GA |
| 2020-2023 | Principal Research Scientist | George W. Woodruff School of Mechanical Engineering, Georgia Tech, Atlanta, GA |
| 2016-2020 | Senior Research Scientist | George W. Woodruff School of Mechanical Engineering, Georgia Tech, Atlanta, GA |

SCHOLARSHIP: PUBLICATIONS (data-based denoted with *, senior or first author with +,
student or corresponding authors underlined)

Peer-Reviewed Publications – Published

1. + T. Vos-Draper, K. Jordan, M. Morrow, E. Udulutch, and **S. E. Sonenblum**, “Monitoring of wheelchair use in long-term memory care units,” *Geriatric Nursing*, vol. 69, p. 103808, Apr. 2026, doi: [10.1016/j.gerinurse.2026.103808](https://doi.org/10.1016/j.gerinurse.2026.103808).
2. + **S. E. Sonenblum**, M. Shea-Stifel, K. Waugh, and T. Dyson-Hudson, “Quantifying seated buttock tissue response to commercial wheelchair cushions through MRI and pressure mapping analyses,” *Journal of Tissue Viability*, vol. 35, no. 1, p. 100983, Feb. 2026, doi: [10.1016/j.jtv.2026.100983](https://doi.org/10.1016/j.jtv.2026.100983).
3. + K. Jordan, G. T. John, A. Chung, M. Asare-Baiden, V. S. Hertzberg, J. C. Ho, and **S. E. Sonenblum**, “Impact of skin tone and cupping on erythema and thermal imaging measurements,” *Sci Rep*, vol. 15, no. 1, p. 42575, Nov. 2025, doi: [10.1038/s41598-025-24823-w](https://doi.org/10.1038/s41598-025-24823-w).
4. + Oropallo, A., Ortega-Loayza, A.G., Korzendorfer, H., James, F., Dotson, P., Khimchenko, A., Driver, V., and **Sonenblum, S.E.**, “Advancing Chronic Wound Care with Near-infrared Spectroscopy Imaging: Clinical Applications, Measurement Parameters, and Insights into Healing Dynamics.,” *Wounds*, vol. 37, no. 10, pp. 375–383, 2025, doi: [doi:10.25270/wnds/25041](https://doi.org/10.25270/wnds/25041).
5. + T. Vos-Draper, E. Vinoski Thomas, E. Graybill, M. Morrow, K. A. Jordan, P. R. Manley, and **S. E. Sonenblum**, “Stakeholder Perspectives on mHealth Technologies to Prevent Sitting-Acquired Pressure Injuries in Long-Term Care Facilities: Mixed Methods Study,” *JMIR Form Res*, vol. 9, p. e59590, Sept. 2025, doi: [10.2196/59590](https://doi.org/10.2196/59590).
6. Y.-T. Tzen, B. Delmore, K. M. Bogie, **S. E. Sonenblum**, D. Newton, D. Vargo, J. Ronin, A. Hester, C. Gillespie, A. Tescher, V. Iyer, and D. Brienza, “State-of-the-Art Review of Current Technology in Pressure Injury Early Detection,” *Advances in Skin & Wound Care*, p. 10.1097/ASW.0000000000000358, Oct. 2025, doi: [10.1097/ASW.0000000000000358](https://doi.org/10.1097/ASW.0000000000000358).
7. + **S. E. Sonenblum**, K. Jordan, G. T. John, A. Chung, M. Asare-Baiden, J. Pelkmans, J. W. Gichoya, V. S. Hertzberg, and J. C. Ho, “Impact of skin tone, environmental, and technical factors on thermal imaging,” *PLOS ONE*, vol. 20, no. 9, p. e0325091, Sept. 2025, doi: [10.1371/journal.pone.0325091](https://doi.org/10.1371/journal.pone.0325091).
8. C. Portoghese, M. Deppisch, **S. Sonenblum**, B. Samson, C. Munro, V. Capasso, E. Call, J. Black, and D. Brienza, “The Role of Shear Stress and Shear Strain in Pressure Injury Development,” *Adv Skin Wound Care*, vol. 37, no. 1, pp. 20–25, Jan. 2024, doi: [10.1097/ASW.0000000000000075](https://doi.org/10.1097/ASW.0000000000000075).
9. + B. M. Bates-Jensen, K. Jordan, W. Jewell, and **S. E. Sonenblum**, “Thermal measurement of erythema across skin tones: Implications for clinical identification of early pressure injury,” *J Tissue Viability*, pp. S0965-206X(24)00126–8, Aug. 2024, doi: [10.1016/j.jtv.2024.08.002](https://doi.org/10.1016/j.jtv.2024.08.002).
10. T. L. Yap, J. Alderden, K. Gadhoumi, S. D. Horn, **S. E. Sonenblum**, J. C. Hays, and S. M. Kennerly, “Movement and Pressure Injury Prevention Care for Nursing Home Residents: Addressing the Nescience,” *Adv Skin Wound Care*, vol. 37, no. 7, pp. 369–375, Jul. 2024, doi: [10.1097/ASW.0000000000000165](https://doi.org/10.1097/ASW.0000000000000165).
11. + **S. E. Sonenblum**, R. Patel, S. Phrasavath, S. Xu, and B. M. Bates-Jensen, “Using Technology to Detect Erythema Across Skin Tones,” *Adv Skin Wound Care*, vol. 36, no. 10, pp. 524–533, Oct. 2023, doi: [10.1097/ASW.0000000000000043](https://doi.org/10.1097/ASW.0000000000000043).
12. + **S. E. Sonenblum**, A. McDonald, C. L. Maurer, A. Bass, M. Watson, and H. Zellner, “Reducing pressure with the goal of improving outcomes: a retrospective chart review of cushion evaluations and recommendations at one seating clinic,” *Disabil Rehabil Assist Technol*, pp. 1–9, May 2023, doi: [10.1080/17483107.2023.2212012](https://doi.org/10.1080/17483107.2023.2212012).

13. + K. Jordan, T. Vos-Draper, M. Morrow, and **S. Sonenblum**, “The usability of two mobile health assistive technologies for wheelchair-related in-seat movement and pressure,” *J Rehabil Assist Technol Eng*, vol. 10, p. 20556683231211808, 2023, doi: [10.1177/20556683231211808](https://doi.org/10.1177/20556683231211808).
14. B. Delmore, M. Deppisch, J. Cox, D. Newton, C. Gillespie, J. Todd, and **S. E. Sonenblum**, “Necessary Products for the Prevention and Treatment of Pressure Injuries: Lessons Learned That Translate Beyond the COVID-19 Pandemic,” *Adv Skin Wound Care*, vol. 36, no. 7, pp. 361–369, Jul. 2023, doi: [10.1097/01.ASW.0000935996.96447.54](https://doi.org/10.1097/01.ASW.0000935996.96447.54).
15. + **S. E. Sonenblum**, C. Feng, and S. Sprigle, “The relationship between in-seat movement and pressure ulcers in wheelchair users with SCI/D,” *J Spinal Cord Med*, pp. 1–9, Oct. 2022, doi: [10.1080/10790268.2022.2122340](https://doi.org/10.1080/10790268.2022.2122340).
16. K. Gadhomi, **S. E. Sonenblum**, S. M. Kennerly, J. Alderden, P. D. Sharkey, S. D. Horn, and T. L. Yap, “Movement Patterns of Transient and Prolonged Positioning Events in Nursing Home Residents: Results from the TEAM-UP Trial,” *Adv Skin Wound Care*, Sep. 2022, doi: [10.1097/01.ASW.0000874172.68863.1c](https://doi.org/10.1097/01.ASW.0000874172.68863.1c).
17. + G. Barbareschi, S. Sonenblum, C. Holloway, and S. Sprigle, “Does the setting matter? Observing wheelchair transfers across different environmental conditions,” *Assist Technol*, vol. 34, no. 3, pp. 326–333, May 2022, doi: [10.1080/10400435.2020.1818328](https://doi.org/10.1080/10400435.2020.1818328).
18. + N. Ahad, **S. E. Sonenblum**, M. A. Davenport, and S. Sprigle, “Validating a wheelchair in-seat activity tracker,” *Assist Technol*, vol. 34, no. 5, pp. 588–598, Sep. 2022, doi: [10.1080/10400435.2021.1893237](https://doi.org/10.1080/10400435.2021.1893237).
19. + **S. E. Sonenblum**, M. Measel, S. H. Sprigle, J. Greenhalgh, and J. M. Cathcart, “An Exploratory Analysis of the Role of Adipose Characteristics in Fulltime Wheelchair Users’ Pressure Injury History,” *Front Bioeng Biotechnol*, vol. 9, p. 753897, 2021, doi: [10.3389/fbioe.2021.753897](https://doi.org/10.3389/fbioe.2021.753897).
20. + **S. E. Sonenblum**, C. L. Maurer, C. D. Hanes, J. Piriano, and S. H. Sprigle, “Everyday use of power adjustable seat height (PASH) systems,” *Assist Technol*, vol. 33, no. 6, pp. 297–305, Nov. 2021, doi: [10.1080/10400435.2019.1634659](https://doi.org/10.1080/10400435.2019.1634659).
21. W. V. Padula, J. Cuddigan, L. Ruotsi, J. M. Black, D. Brienza, V. Capasso, J. Cox, B. Delmore, S. Holden-Mount, N. Munoz, A. M. Nie, J. Pittman, **S. E. Sonenblum**, A. Tescher, and P. National Pressure Injury Advisory, “Best-practices for preventing skin injury beneath personal protective equipment during the COVID-19 pandemic: A position paper from the National Pressure Injury Advisory Panel,” *J Clin Nurs*, Feb. 2021, doi: [10.1111/jocn.15682](https://doi.org/10.1111/jocn.15682).
22. * S. Sprigle, D. McNair, and **S. Sonenblum**, “Pressure Ulcer Risk Factors in Persons with Mobility-Related Disabilities,” *Adv Skin Wound Care*, vol. 33, no. 3, pp. 146–154, Mar. 2020, doi: [10.1097/01.ASW.0000653152.36482.7d](https://doi.org/10.1097/01.ASW.0000653152.36482.7d).
23. + **S. E. Sonenblum**, D. Seol, S. H. Sprigle, and J. M. Cathcart, “Seated buttocks anatomy and its impact on biomechanical risk,” *J Tissue Viability*, vol. 29, no. 2, pp. 69–75, May 2020, doi: [10.1016/j.jtv.2020.01.004](https://doi.org/10.1016/j.jtv.2020.01.004).
24. S. Sprigle, **S. E. Sonenblum**, and C. Feng, “Pressure redistributing in-seat movement activities by persons with spinal cord injury over multiple epochs,” *PLoS one*, vol. 14, no. 2, Art. no. 2, 2019, doi: [10.1371/journal.pone.0210978](https://doi.org/10.1371/journal.pone.0210978).
25. S. Sprigle and **S. Sonenblum**, “Visualizing Tissue Strain Under the Sacrum and Coccyx in Different Supine Postures: A Case Series,” *Adv Skin Wound Care*, Apr. 2019, doi: [10.1097/01.ASW.0000554445.59743.44](https://doi.org/10.1097/01.ASW.0000554445.59743.44).
26. + **S. E. Sonenblum** and S. H. Sprigle, “Some people move it, move it... for pressure injury prevention,” *J Spinal Cord Med*, vol. 41, no. 1, pp. 106–110, Jan. 2018, doi: [10.1080/10790268.2016.1245806](https://doi.org/10.1080/10790268.2016.1245806).
27. + **S. E. Sonenblum** and S. H. Sprigle, “Buttock tissue response to loading in men with spinal cord injury,” *PLoS One*, vol. 13, no. 2, p. e0191868, 2018, doi: [10.1371/journal.pone.0191868](https://doi.org/10.1371/journal.pone.0191868).
28. + **S. E. Sonenblum**, J. Ma, S. H. Sprigle, T. R. Hetzel, and J. McKay Cathcart, “Measuring the impact of cushion design on buttocks tissue deformation: An MRI approach,” *J Tissue Viability*, vol. 27, no. 3, pp. 162–172, Aug. 2018, doi: [10.1016/j.jtv.2018.04.001](https://doi.org/10.1016/j.jtv.2018.04.001).

29. G. Barbareschi, C. Holloway, N. Bianchi-Berthouze, **S. Sonenblum**, and S. Sprigle, "Use of a Low-Cost, Chest-Mounted Accelerometer to Evaluate Transfer Skills of Wheelchair Users During Everyday Activities: Observational Study," *JMIR Rehabil Assist Technol*, vol. 5, no. 2, p. e11748, Dec. 2018, doi: [10.2196/11748](https://doi.org/10.2196/11748).
30. + **S. E. Sonenblum**, S. Sprigle, and J. S. Martin, "Everyday sitting behavior of full time wheelchair users," *Journal of Rehabilitation Research and Development*, vol. 53, no. 5, Art. no. 5, 2016, doi: <http://dx.doi.org/10.1682/JRRD.2015.07.0130>.
31. + **S. E. Sonenblum** and S. Sprigle, "Wheelchair use in ultra-lightweight wheelchair users," *Disabil Rehabil Assist Technol*, pp. 1–6, Jul. 2016, doi: [10.1080/17483107.2016.1178819](https://doi.org/10.1080/17483107.2016.1178819).
32. + **S. E. Sonenblum**, S. H. Sprigle, J. M. Cathcart, and R. J. Winder, "3D anatomy and deformation of the seated buttocks," *J Tissue Viability*, vol. 24, no. 2, pp. 51–61, May 2015, doi: [10.1016/j.jtv.2015.03.003](https://doi.org/10.1016/j.jtv.2015.03.003).
33. + **S. E. Sonenblum**, T. E. Vonk, T. W. Janssen, and S. H. Sprigle, "Effects of wheelchair cushions and pressure relief maneuvers on ischial interface pressure and blood flow in people with spinal cord injury," *Archives of physical medicine and rehabilitation*, vol. 95, no. 7, pp. 1350–7, Jul. 2014, doi: [10.1016/j.apmr.2014.01.007](https://doi.org/10.1016/j.apmr.2014.01.007).
34. S. Sprigle, **S. Sonenblum**, and T. Conner-Kerr, "mobilityRERC state of the science conference: individualizing pressure ulcer risk and prevention strategies," *Disability and rehabilitation. Assistive technology*, vol. 8, no. 6, pp. 454–61, Nov. 2013, doi: [10.3109/17483107.2013.823574](https://doi.org/10.3109/17483107.2013.823574).
35. + **S. E. Sonenblum**, S. H. Sprigle, J. M. Cathcart, and R. J. Winder, "3-dimensional buttocks response to sitting: a case report," *Journal of tissue viability*, vol. 22, no. 1, pp. 12–8, Feb. 2013, doi: [10.1016/j.jtv.2012.11.001](https://doi.org/10.1016/j.jtv.2012.11.001).
36. + **S. E. Sonenblum**, S. Sprigle, and R. A. Lopez, "Manual wheelchair use: bouts of mobility in everyday life," *Rehabil Res Pract*, vol. 2012, p. 753165, 2012, doi: [10.1155/2012/753165](https://doi.org/10.1155/2012/753165).
37. + **S. E. Sonenblum**, S. Sprigle, J. Caspall, and R. Lopez, "Validation of an accelerometer-based method to measure the use of manual wheelchairs," *Med Eng Phys*, vol. 34, no. 6, pp. 781–786, Jun. 2012, doi: [10.1016/j.medengphy.2012.05.009](https://doi.org/10.1016/j.medengphy.2012.05.009).
38. S. Sprigle and **S. Sonenblum**, "Assessing evidence supporting redistribution of pressure for pressure ulcer prevention: A review," *J Rehabil Res Dev*, vol. 48, no. 3, pp. 203–14, 2011.
39. + **S. E. Sonenblum** and S. Sprigle, "Distinct tilting behaviours with power tilt-in-space systems," *Disabil Rehabil Assist Technol*, vol. 6, no. 6, pp. 526–535, 2011.
40. + **S. E. Sonenblum** and S. H. Sprigle, "The impact of tilting on blood flow and localized tissue loading," *J Tissue Viability*, vol. 20, no. 1, pp. 3–13, Feb. 2011, doi: [10.1016/j.jtv.2010.10.001](https://doi.org/10.1016/j.jtv.2010.10.001).
41. S. Sprigle, C. Maurer, and **S. E. Sonenblum**, "Load redistribution in variable position wheelchairs in people with spinal cord injury," *J Spinal Cord Med*, vol. 33, no. 1, pp. 58–64, 2010.
42. F. H. Harris, S. Sprigle, **S. E. Sonenblum**, and C. Maurer, "The Participation and Activity Measurement System (PAMS): an example application among people who use wheeled mobility devices," *Disability and Rehabilitation: Assistive Technology*, vol. 5, no. 1, pp. 48–57, 2010.
43. + **S. E. Sonenblum**, S. Sprigle, and C. L. Maurer, "Use of power tilt systems in everyday life," *Disabil Rehabil Assist Technol*, vol. 4, no. 1, pp. 24–30, Jan. 2009, doi: [10.1080/17483100802542744](https://doi.org/10.1080/17483100802542744).
44. + **S. E. Sonenblum**, S. Sprigle, F. H. Harris, and C. L. Maurer, "Characterization of power wheelchair use in the home and community," *Archives of physical medicine and rehabilitation*, vol. 89, no. 3, pp. 486–91, Mar. 2008.
45. M. A. Upal, J. J. Crisco, D. C. Moore, **S. E. Sonenblum**, and S. W. Wolfe, "In vivo elongation of the palmar and dorsal scapholunate interosseous ligament," *The Journal of hand surgery*, vol. 31, no. 8, pp. 1326–32, Oct. 2006.
46. + **S. E. Sonenblum**, J. J. Crisco, L. Kang, and E. Akelman, "In vivo motion of the scaphotrapezio-trapezoidal (STT) joint," *Journal of biomechanics*, vol. 37, no. 5, pp. 645–52, May 2004.
47. D. P. Johnson, **S. E. Sonenblum**, A. Nunez, B. Bupathi, and A. E. Winston, "Flouride, Calcium and Phosphate Released from a Remineralizing Toothpaste," *Journal of Dental Research*, vol. 78, p. 172, 1999.

Other Publications (please label as book chapter, book review, research abstract, software, video, etc.)

1. + Podcast: Sonenblum, S.E., "DETECTION OF PRESSURE INJURIES USING NIRS." MIMOSA MATTERS Podcast. [Online]. Available: <https://podcasts.apple.com/au/podcast/detection-of-pressure-injuries-using-nirs/id1793825508?i=1000703738314>
2. Editorial: Jan, Y.K., M.J. Major, F. Pu, and S.E. Sonenblum, "Editorial: Soft Tissue Biomechanics in Wound Healing and Prevention," *Front Bioeng Biotechnol*, 2022. vol 10, no pp. 897860. <https://www.ncbi.nlm.nih.gov/pubmed/35449596>.
3. + Patent: Sonenblum SE, Sprigle S, Martin JS, inventors; Georgia Tech Research Corporation, assignee. Wheelchair In-Seat Activity Tracker. United States patent 10357186. 2019 07/23/2019.
4. + Editorial: Graebe, R.H. and S.E. Sonenblum, "Pressure injury prevention needs an engineering solution," *Disabil Rehabil Assist Technol*, 2019. vol 14, no 1, pp. 1. <https://www.ncbi.nlm.nih.gov/pubmed/30741043>.
5. Rehabilitation Trade Journal: Sprigle S and Sonenblum SE, "Pressure Injury Prevention. Seated but not still", in *Rehab Management*. 2016, Anthem Systems.
6. + Rehabilitation Trade Journal: Sonenblum, S.E. and S. Sprigle, "Blood flow and pressure changes with tilt-in-space", in *Rehab & Community Care Medicine*. 2011. p. 22-25.
7. Editorial: Hoenig, H., K. Huffman, L. Iezzoni, C.E. Levy, S. Sonenblum, and S. Sprigle, "Motorized scooters: boon or bane?," *Am J Cardiol*, 2010. vol 106, no 4, pp. 601. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=20691325.

SCHOLARSHIP: PRESENTATIONS (invited presentations denoted with #,
podium presentations denoted with ^)

International Presentations (if conference is run by an international organization)

1. Sonenblum, S.E., Jordan, Kathleen, John, Glory T., Asare-Baiden, Miriam, Hertzberg, Vicki, Gichoya, J.W., and Ho, Joyce, "Navigating Skin Diversity And Real-World Factors In Thermal Imaging For Early Pressure Injury Detection," presented at the EPUAP 2025, Helsinki, Finland, Sept. 25, 2025.
2. Lamant, Maeva, Sonenblum, Sharon, Siguado-Roussel, Dominique, Fromy, Berengère, Vergari, Claudio, Diop, Amadou, Creze, Maud, Herlin, Christian, and Rohan, Pierre-Yves, "Role Of Subcutaneous Adipose Tissue In Pressure Ulcer Risk : Viscoelastic Properties Under Uniaxial Compression," presented at the EPUAP 2025, Helsinki, Finland, Sept. 26, 2025.
3. #^ Sonenblum, S.E. "Avancée de La Recherche Sur Les Plaies de Pression et Le Positionnement (Advances in Research on Pressure Ulcers and Positioning)." Paper presented at Congrès de l'association Positi'F, Lille, France. May 23, 2025.
4. #^ Sonenblum, S.E. "L'utilisation de La Technologie Pour Explorer l'anatomie Assise et Son Impact Sur Le Risque d'escarre (Using Technology to Explore Seated Anatomy and Its Impact on Pressure Ulcer Risk)." Paper presented at Congrès de l'association Positi'F, Lille, France. May 22, 2025.
5. #^ Sonenblum, S.E. "Skin-Teresting Insights: Unpacking Pressure Injuries Through Microscopy, Thermography, and Spectrophotometry," *University of Exeter*, Exeter, UK, September 11, 2023.
6. ^ Sonenblum, Sharon E. "Spectrophotometry Measurement of Erythema across Skin Tones," *EPUAP 2023 Annual Meeting*, Leeds, UK, 2023.
7. Sonenblum, Sharon E., Mansfield, J, Shamaa, T, Jordan, Kathleen, Sandberg, Kristian, and Siddiqui, Aamir. "Collagen and Elastin Structure and Adipose Distribution in Tissue Under Load," *EPUAP 2023 Annual Meeting*, Leeds, UK, 2023.

8. ^McDonald, M., Maurer, C., and **Sonenblum, S.E.** "Who Knew a Retrospective Cushion Evaluation Chart Review Could Be so Much Fun and Clinic-Changing? Learn from Our Mistakes... and Our Successes," *38th International Seating Symposium*, Pittsburgh, PA, 2023.
9. ^**Sonenblum, S.E.** "Using Technology to Explore Seated Anatomy and its Impact on Pressure Ulcer Risk," in *2022 European Seating Symposium*. 2022. Dublin, Ireland.
10. #^ **Sonenblum, S.E.** and C. Maurer. "Plenary Session: Why should I let big brother monitor my wheelchair usage? Let's discuss.," in *International Seating Symposium*. 2020. Vancouver, BC, Canada.
11. **Sonenblum, S.E.** "Seated Anatomy and its Impact on Pressure Ulcer Risk," in *International Seating Symposium*. 2020. Vancouver, BC, Canada.
12. **Sonenblum, S.E.**, S. Sprigle, M. Shea, K. Waugh, and T. Dyson-Hudson. "How does it shape up? Buttocks shape across wheelchair cushions.," in *RehabWeek2019*. 2019. Toronto, Canada.
** Finalist in the Poster Competition, out of ~600 submissions **
13. Barbareschi, G., C. Holloway, S. **Sonenblum**, and S. Sprigle. "Does the setting matter? Observing wheelchair transfers across different environmental conditions " in *RehabWeek2019*. 2019. Toronto, Canada.
14. **Sonenblum, S.E.**, S. Sprigle, M. Shea, K. Waugh, and T. Dyson-Hudson. "How does it shape up? Buttocks shape across wheelchair cushions.," in *International Seating Symposium*. 2019. Pittsburgh, PA.
15. ^**Sonenblum, S.** and S. Sprigle. "Getting the Most Out of the Exhibit Hall: How to Ask for Evidence," in *International Seating Symposium*. 2019. Pittsburgh, PA.
16. ^Piriano, J., S. **Sonenblum**, and C. Maurer. "Everyday Use of PASH Systems – Who, Why, Where and When," in *International Seating Symposium*. 2019. Pittsburgh, PA.
17. #^ Sprigle, S. and S.E. **Sonenblum**. "Pressure and force management in seating: understanding the complex influences of force and pressure on tissue integrity," (A full day pre-conference course) in *European Seating Symposium*. 2018. Dublin, Ireland.
18. ^**Sonenblum, S.E.** and C. Maurer. "Seat Elevators in Everyday Life," in *International Seating Symposium*. 2018. Vancouver, BC, Canada.
19. **Sonenblum, S.E.** and N. Petrone. "From pressure to deformation... the buttocks response to sitting," in *International Seating Symposium*. 2018. Vancouver, BC, Canada.
20. Misch, J.P. and S.E. **Sonenblum**. "Repeatability and Reliability of Tissue Compliance Tester over Bony Anatomy," in *RESNA*. 2018. Washington, DC.
21. ^Maurer, C., J. Piriano, and S.E. **Sonenblum**. "Everyday Use of Power Adjustable Seat Height Systems- Who, Why, Where, When," in *European Seating Symposium*. 2018. Dublin, Ireland.
22. #^ Minkel, J., **Sonenblum, S.E.**, Clayback, D., Lieberman, J., Bach, J., Shea, M. "Do We Really Need Big Data?" (A Plenary Panel Discussion) in *International Seating Symposium*. 2017. Nashville, TN.
23. **Sonenblum, S.E.** and S. Sprigle. "What happens when you sit? Explaining seated buttocks deformation," in *International Seating Symposium*. 2017. Nashville, TN.
24. ^**Sonenblum, S.E.** and S. Sprigle. "Do you know how people move in their wheelchairs? Measuring and describing real-world wheelchair use.," in *RESNA Annual Meeting*. 2015. Denver, CO.
25. ^**Sonenblum, S.E.**, S. S, J. Cathcart, and R.J. Winder. "WHAT DO WE SIT ON? ANATOMY OF THE SEATED BUTTOCKS," in *RESNA Annual Meeting*. 2015. Denver, CO.
26. Cathcart, J., S.E. **Sonenblum**, S. Sprigle, and R.J. Winder. "High resolution Magnetic Resonance (MR) imaging for the assessment of the buttocks in spinal cord injury," in *CoRIPS Seminar*. 2015. London, England.
27. ^**Sonenblum, S.E.** and S. Sprigle. "Risk factors affecting buttocks tissue deformation and blood flow response to loading," in *RESNA Annual Meeting*. 2014. Indianapolis, IN.
28. Martin, J.S., S.E. **Sonenblum**, and S. Sprigle. "Signal processing for a wheelchair pressure relief monitoring system," in *RESNA Annual Meeting*. 2014. Indianapolis, IN.

29. ^**Sonenblum, S.E.** and S. Sprigle. "Study of 3D buttocks tissue deformation to inform pressure ulcer risk and cushion test method development," in *Shear and tissue integrity – the state of the science*. 2014. London, UK.
 30. **Sonenblum, S.E.**, S. Sprigle, J.M. Cathcart, and R.J. Winder. "Magnetic resonance imaging of the buttocks to determine soft tissue deformation during sitting. ," in *International Conference on Medical Physics*. 2013. Brighton, UK.
 31. ^**Sonenblum, S.E.** and S. Sprigle. "You Got to Move It, Move It! Pressure Reliefs, Weight Shifts, and Wheelchair Mobility in Individuals with SCI," in *RESNA*. 2016. Arlington, VA.
 32. ^**Sonenblum, S.E.** and T. Dyson-Hudson. "You Got to Move it, Move it!," in *32nd International Seating Symposium*. 2016. Vancouver, BC, Canada.
 33. ^**Sonenblum, S.E.** "Tissue Deformation of the Seated Buttocks," in *ASCIP*. 2016. Nashville, TN.
 34. ^Crane, B., T. Hetzel, and **S.E. Sonenblum**. "Clinical Application of the Dispersion Index," in *32nd International Seating Symposium*. 2016. Vancouver, BC, Canada.
 35. Cathcart, J., **S.E. Sonenblum**, S. Sprigle, and R.J. Winder. "Multi Planar Imaging: Anatomical Variation Around the Ischial Tuberosity During Sitting Using Magnetic Resonance Imaging," in *RESNA*. 2016. Chicago, IL.
 36. ^Sprigle, S. and **S.E. Sonenblum**. "How manual wheelchairs are used during everyday mobility," in *28th International Seating Symposium*. 2012. Vancouver, Canada.
 37. ^**Sonenblum, S.E.** and S. Sprigle. "Getting Blood to the Butt: Response to Sitting and Pressure Relief," in *28th International Seating Symposium*. 2012. Vancouver, Canada.
 38. ^Conner-Kerr, T., **S.E. Sonenblum**, and S. Sprigle. "Individualizing Pressure Ulcer Risk and Prevention Strategies," in *RESNA Annual Meeting*. 2012. Baltimore, MD.
 39. **Sonenblum, S.E.** and S. Sprigle. "3-Dimensional phantom buttocks deformation across cushions," in *RESNA Annual Meeting*. 2011. Toronto, ON, Canada.
 40. **Sonenblum, S.E.**, R. Lopez, and S. Sprigle. "17,000 Bouts of Mobility," in *RESNA Annual Meeting*. 2011. Toronto, ON, Canada.
 41. **Sonenblum, S.E.** and S. Sprigle. "Blood Flow and Pressure Changes that Occur with Tilt-in-Space," in *RESNA Annual Meeting*. 2010. Las Vegas, NV.
- ** Student Scientific Paper Competition Winner **
42. ^Maurer, C., **S. Sonenblum**, and S. Sprigle. "Draft of Recommendations for Training and Use of Power Tilt Systems," in *26th International Seating Symposium*. 2010. Vancouver, BC, Canada.
 43. Lopez, R., **S.E. Sonenblum**, and S. Sprigle. "Mobility Metrics for Manual Wheelchair Use in Everyday Life," in *RESNA Annual Meeting*. 2010. Las Vegas, NV.
 44. Maurer, C., **S.E. Sonenblum**, and S. Sprigle. "Wheelchair Use in Everyday Life," in *RESNA Annual Meeting*. 2009. New Orleans, LA.
 45. **Sonenblum, S.E.** and S. Sprigle. "Blood flow and pressure changes that occur with tilt-in-space," in *European Seating Symposium*. 2009. Dublin, Ireland.
 46. ^**Sonenblum, S.E.**, S. Sprigle, C. Maurer, and F.H. Harris. "Why Full-time Power Wheelchair Users Tilt," in *RESNA Annual Meeting*. 2008. Washington, DC.
 47. ^**Sonenblum, S.E.**, S. Sprigle, F.H. Harris, and C. Maurer. "Understanding Wheelchair Use Patterns: Tilt-in-Space," in *24th International Seating Symposium*. 2008. Vancouver, BC.
 48. Harris, F.H., **S.E. Sonenblum**, S. Sprigle, and C. Maurer. "Impact of Tilt-in-Space Power Wheelchairs on Health, Activity, and Participation," in *RESNA Annual Meeting*. 2008. Washington, DC.
 49. Harris, F.H., S. Sprigle, and **S.E. Sonenblum**. "Measuring Activity and Participation in Outcomes Research," in *RESNA Annual Meeting*. 2006. Atlanta, GA.
 50. **Sonenblum, S.E.**, S. Sprigle, L. West, and J. Wood. "Non-Invasive Erythema Detection Using Spectral Imaging," in *RESNA Annual Meeting*. 2005. Atlanta, GA.
 51. **Sonenblum, S.E.**, S. Sprigle, L. VanHeil, C. Maurer, and E. Whittaker. "Kinematics of Lateral Transfers: A Pilot Study," in *International Society of Biomechanics*. 2005. Cleveland, OH.

52. **Sonenblum, S.E.**, S. Sprigle, L. VanHeil, and C. Maurer. "Kinematics of Lateral Transfers: A Pilot Study," in *RESNA Annual Meeting*. 2005. Atlanta, GA.
53. Lankton, S., **S.E. Sonenblum**, S. Sprigle, J. Wolf, and M. Oliveira. "Use of GPS and Sensor-based Instrumentation as a Supplement to Self-Report in Studies of Activity and Participation," in *RESNA Annual Meeting*. 2005. Atlanta, GA.
54. Crisco, J.J., L. Kang, **S.E. Sonenblum**, and E. Akelman. "In vivo motion of the scaphotrapezio-trapezoidal (STT) joint," in *IV World Congress of Biomechanics*. 2002. Calgary, Alberta.

National Presentations (if conference is run by a national organization)

1. Bates-Jensen, Barbara, **Sonenblum, S.E.**, Nails, Victoria, Nguyen, Vicky, Krause-Leemon, Taylor, Seidl, Lisa, Calonia, John Robert, & McCreath, Heather E. "Sacral Skin Discoloration in Adult Patients at the End of Life." Paper presented at 2025 NPIAP Annual Conference, Dallas, TX. February 2025.
2. ^ **John, Glory T.**, Jordan, Kathleen, Chung, Andrew, Ho, Joyce, Hertzberg, Vicki, Asare-Baiden, Miriam, & **Sonenblum, Sharon E.** "Navigating Skin Diversity and Real-World Factors in Thermal Imaging for Early Pressure Injury Detection." Paper presented at 2025 NPIAP Annual Conference, Dallas, TX. February 2025. (***Best Student Paper Award***)
3. **Sonenblum, Sharon E.**, Jordan, Kathleen, John, Glory T., Hertzberg, Vicki, and Ho, Joyce. "Color Me Curious: A Comparative Study of Skin Tone Scale." Paper presented at 2025 NPIAP Annual Conference, Dallas, TX. February 2025.
4. Zhang, Wenhui, Hertzberg, Vicki, Ho, Joyce, Simpson, Roy, and **Sonenblum, Sharon E.** "The Clock Is Ticking: Tracking Stage 1 Pressure Injury Progression in Critical Care." Paper presented at 2025 NPIAP Annual Conference, Dallas, TX. February 2025.
5. **Asare-Baiden, M.**, Jordan, K., Chung, A., **Sonenblum, S. E.**, & Ho, J. C. Is thermography a viable solution for detecting pressure injuries in dark skin patients? Machine Learning for Health (ML4H) symposium; 2024.
6. Vos-Draper, Tamara, Jordan, Kathleen, Morrow, Melissa, **Sonenblum, Sharon E.** Wheelchair Sitting Patterns in Long Term Care Memory Care Units. San Antonio, TX; 2024.
7. **Sonenblum, Sharon E.**, Timmerman, Rose, Alderden, Jenny, Yap, Tracey. Can we crack the mobility code? Patient movement and postural patterns in pressure injury development. San Antonio, TX; 2024.
8. #^ **Sonenblum, S.E.** and Yap, T. "Prolonged Positions and No Pressure Injuries - How Is It Possible?" *NPIAP Annual Conference*, Washington, DC, 2022.
9. #^ Sprigle, S. and **S.E. Sonenblum**. "Pearls in Pressure Redistribution," in *SAWC*. 2021. Virtual.
10. #^ **Sonenblum, S.E.** "Making Better Choices: Tissue Tolerance and Support Surfaces," in *AAWC*. 2021. Atlanta, GA.
11. #^ Sprigle, S. and **S. Sonenblum**. "Biomechanics of pressure ulcers: Vintage versus contemporary findings " in *AAWC Pressure Ulcer Summit*. 2019. Atlanta, GA.
12. #^ **Sonenblum, S.E.** "Using Imaging to Describe Tissue Responses to Loading" in *AAWC Pressure Ulcer Summit*. 2018. Atlanta, GA.
13. ^Fyffe, D., **S.E. Sonenblum**, and T. Dyson-Hudson. "Understanding Health, Discrimination and Wheelchair Experiences among Racially/Ethnically Diverse Men Living with SCI," *ACRM*, Chicago, IL, 2022.
14. Jordan, K., **S.E. Sonenblum**, D. Fyffe, and X. Zhang. "Wheelchair Bout Mobility in and out of the Home," *ACRM*, Chicago, IL, 2022.
15. Measel, M., **S. Sonenblum**, and S. Sprigle. "Intramuscular Fat and Pressure Injuries in Wheelchair Users," in *NPIAP*. 2021. Virtual.
16. **Sonenblum, S.E.**, S. Sprigle, and B. Delmore. "How does a dressing change sacral tissue deformation," in *NPIAP 2020 Annual Conference*. 2020. Houston, TX.

17. Sprigle, S., **S.E. Sonenblum**, and J.J. O'Brien. "Transitioning a Research Tool Into a Consumer Product: The Wheelchair In-Seat Activity Tracker," in *2019 Design of Medical Devices Conference*. 2019. Minneapolis, Minnesota.
18. Sprigle, S. and **S. Sonenblum**. "Tissue Strain Under the Sacrum & Coccyx: By Supine Posture and Skeletal Morphology," in *NPUAP*. 2019. St. Louis, MO.
19. **Sonenblum, S.E.** "Using MRIs of the Seated Buttocks to Learn about Wheelchair Seating," in *ASCIP*. 2017. Denver, CO.
20. **Sonenblum, S.E.** and T. Dyson-Hudson. "The Role of Weight Shifts in Pressure Ulcer Prevention," in *ASCIP*. 2016. Nashville, TN.
21. Vonk, T.E., **S.E. Sonenblum**, S.H. Sprigle, R. Schofield, and A. Porter-Armstrong. "Pressure relief and weight shift behavior during prolonged sitting in patients with a spinal cord injury," in *BMES*. 2012. Atlanta, GA.
22. **Sonenblum, S.E.**, J. Cathcart, R.J. Winder, and S. Sprigle. "Tissue deformation in the seated buttocks model," in *American Society of Biomechanics*. 2012. Gainseville, FL.
23. **Sonenblum, S.E.**, J. Cathcart, R.J. Winder, and S. Sprigle. "Tissue deformation in the seated buttocks model," in *BMES*. 2012. Atlanta, GA.
24. Dai, R., **S.E. Sonenblum**, and S. Sprigle. "A robust wheelchair pressure relief monitoring system," in *IEEE Eng Med Biol Soc* 2012. San Diego, CA.
25. Sprigle, S., R. Lopez, and **S.E. Sonenblum**. "Characterizing mobility of manual wheelchair users" in *Society for Ambulatory Assessment*. 2011. Ann Arbor, MI.
26. **Sonenblum, S.E.**, S. Sprigle, R. Lopez, and J. Caspall. "A Methodology to Measure the Use of Manual Wheelchairs" in *Society for Ambulatory Assessment*. 2011. Ann Arbor, MI.
27. Sprigle, S., D.M. Brienza, and **S.E. Sonenblum**, "Challenges and strategies when designing wheeled mobility and seating intervention studies", in *ACRM Annual Conference*. 2011. Atlanta, GA.
28. **Sonenblum, S.E.** and S. Sprigle. "Real-world use of powered tilt-and-recline wheelchairs," in *ACRM Annual Conference*. 2011. Atlanta, GA.
29. **Sonenblum, S.E.** and S. Sprigle. "Biomechanical Responses to Seated Full Body Tilt," in *BMES Annual Meeting*. 2009. Pittsburgh, PA.
30. **Sonenblum, S.E.**, J. Caspall, R. Lopez, and S. Sprigle. "An Analysis Method for Detecting Manual Wheelchair Movement," in *BMES Annual Meeting*. 2009. Pittsburgh, PA.
31. Harris, F.H., **S.E. Sonenblum**, and S. Sprigle. "A Case Study: Activity and Participation Measurement in Two Subjects," in *RESNA Annual Meeting*. 2007. Phoenix, AZ.
32. Harris, F.H., **S.E. Sonenblum**, and S. Sprigle. "Measuring Participation Among Wheeled Mobility Users," in *European Seating Symposium*. 2007. Dublin, Ireland.
33. **Sonenblum, S.E.**, S. Sprigle, and C. Maurer. "Monitoring Power Upright and Tilt-In-Space Wheelchair Use," in *RESNA Annual Meeting*. 2006. Atlanta, GA.
34. **Sonenblum, S.E.** "Daily Mobility Patterns in Power Wheelchair Users: What complexity measures can be used to describe mobility patterns?," in *Southeast Biomechanics Conference*. 2006. Atlanta, GA.
35. **Sonenblum, S.E.**, J.J. Crisco, L. Kang, and E. Akelman. "The scaphotrapezio-trapezoidal (STT) joint: an analysis of in-vivo STT motion in flexion, extension, and ulnar deviation," in *49th Annual Meeting of the Orthopaedic Research Society*. 2003. New Orleans, LA.
36. **Sonenblum, S.E.** and J.J. Crisco. "Impact Characteristics of Coconut Coir," in *American Society of Biomechanics Annual Conference*. 2001. San Diego, CA.

State/Regional Presentations (if conference is run by a state/regional organization)

1. #^ **Sonenblum, S.E.** Race as a Proxy for Skin Tone. Emory Health AI Bias Datathon; 2023 Aug; Atlanta, GA.
2. #^ Maurer and **S.E. Sonenblum**. "Use of Specialized Power Wheelchair Features in Everyday Life" 2018. Georgia Association of Medical Equipment Suppliers. Atlanta, GA. (60 minute Course)

TEACHING ACTIVITIES

Courses Taught

| Term | Course Prefix | Course Title | Role |
|-------------|---------------|---|---|
| Spring 2026 | NRSG366 | Healthcare Quality, Safety, and Informatics | Co-Instructor, Developer of Nurse Design Lab Module |
| Fall 2025 | NRSG794 | Health Information Technology for Women's Health Research | Course coordinator |
| Fall 2024 | NRSG794 | Health Information Technology for Women's Health Research | Co-Instructor and Co-Developer |
| Fall 2014 | APPH 4802 | Introduction to Rehabilitation Research Methods | Course developer and coordinator |

Invited Guest Lectures

| | |
|------|---|
| 2026 | Thursday Lunchtime Research Seminars <i>London Spinal Cord Injury Research Centre; Royal National Orthopaedic Hospital NHS Trust, London, UK</i> Title: Improving Flap Surgery Outcomes: Evaluating Technological Monitoring and Assessing Patient Needs |
| 2026 | WOC Nursing Model Design Session <i>EUOSH, Tucker, GA</i> Title: Pragmatic and automated pressure injury detection |
| 2025 | Emory WOC Town Hall <i>Emory Healthcare, Atlanta, GA</i> Title: Research at the School of Nursing |
| 2025 | Nursing Innovation Grand Rounds <i>Emory Healthcare, Atlanta, GA</i> Title: Innovations in Pressure Injury Research |
| 2025 | In-Service <i>Shepherd Center, Atlanta, GA</i> Title: Non-Invasive Monitoring of Healing Following Flap Surgery |
| 2025 | Wound Prevention Workgroup <i>Shepherd Center, Atlanta, GA</i> Title: Non-Invasive Monitoring of Healing Following Flap Surgery |
| 2025 | Center for Data Science All-Star Assembly <i>Emory University, Atlanta, GA</i> Title: Feasibility of Thermography to Detect Pressure Injuries in a Diverse Population of Emory Healthcare Patients |
| 2025 | WOC Town Hall Retreat <i>Emory Healthcare, Atlanta, GA</i> Title: Pressure Injury Research at the School of Nursing |
| 2024 | WOC Town Hall Retreat <i>Emory Healthcare, Atlanta, GA</i> Title: School of Nursing Research Opportunities & Devices for Pressure Injury Detection/Monitoring |
| 2024 | Stimulating Translational Opportunities in Rehabilitation and Movement Science (STORMS) Seminar Series |

- Emory University, Atlanta, GA
Title: Monitoring the Impact of Movement on Pressure Injury Development
 2024 Emory Dermatology In-Person Inaugural DEI Grand Rounds
 Emory University & Emory Healthcare, Atlanta, GA
Title: Innovations and Opportunities for Collaboration in Pressure Injury
 Detection and Healing Across Diverse Skin Tones
 2023 Guest Lecture
 University of Exeter, Exeter, UK
Title: Skin-Teesting Insights: Unpacking Pressure Injuries Through Microscopy,
 Thermography, and Spectrophotometry
 2017 Emory Radiology Research in Progress Seminars (RIPS)
 Emory University & Emory Healthcare, Atlanta, GA
Title: *The Role of Imaging in Pressure Ulcer Prevention*
 2016 Shepherd Center Cookies and Research
 Shepherd Center, Atlanta, GA
Title: Weight Shifting in Every Day Life. Do your patient do weight shifts when
 they get home?
 2014 Kessler Institute for Rehabilitation Grand Rounds
 Kessler Institute for Rehabilitation, West Orange, NJ
Title: Monitoring wheelchair users without following them around

Professional Development Courses Designed and Taught (Stand-alone Courses)

- 2021 **Title:** How does it shape up? The role of individual factors and the wheelchair
 cushion on buttocks shape during sitting
Sponsor: Numotion
Virtual, 75 minute web course
- 2021 **Title:** Searching for Good Outcomes in Industry Sponsored Research
Sponsor: Ride University Online
Free online course:
<https://rideuniversityonline.thinkific.com/courses/SearchingforGoodOutcomesinIndustrySponsoredResearch> (5 star review)
- 2020 **Title:** How does it shape up? The impact of the skeleton and the cushion on buttocks
 shape during sitting
Sponsor: International Registry of Rehabilitation Technology Suppliers
Virtual, 60 minute web course
- 2019 **Title:** From the inside out - how the skeleton loads the buttocks during sitting
Sponsor: Numotion
Virtual, 75 minute web course
- 2019 **Title:** How does it shape up?
Sponsor: Ride University Online
Free Online Course: <https://rideuniversityonline.thinkific.com/courses/how-does-it-shape-up-the-impact-of-the-skeleton-and-the-cushion-on-buttocks-shape-during-sitting> (5 star review)
- 2018 **Title:** From pressure to deformation... the buttocks tissue response to sitting
Sponsor: Numotion
Virtual, 75 minute web course
- 2018 **Title:** What happens when you sit? Explaining seated buttocks deformation
Sponsor: International Registry of Rehabilitation Technology Suppliers
Virtual, 60 minute web course

- 2018 **Title:** Pressure and force management in seating: understanding the complex influences of force and pressure on tissue integrity
Sponsor: European Seating Symposium
Dublin, Ireland; Full-day preconference symposium with co-instructor Dr. Stephen Sprigle
- 2018 **Title:** Use of Specialized Power Wheelchair Features in Everyday Life
Sponsor: Georgia Association of Medical Equipment Suppliers
Atlanta, GA, 60 minute live course
- 2014 **Title:** Positioning: pressure issues – the latest in causation, prevention, and treating pressure ulcers
Sponsor: International Registry of Rehabilitation Technology Suppliers
Virtual, 60 minute web course with co-instructor Dr. Teresa Conner-Kerr

PROFESSIONAL AND UNIVERSITY SERVICE ACTIVITIES

Membership in Professional Organizations

| | | |
|----------------|---|--------------------|
| 2025-Present | Wound Healing Society – Education Committee | Member |
| 2025 - Present | PAWSIC International Position Paper on Skin Failure Core & Expert Working Group | Member |
| 2024-Present | Post Acute Wound & Skin Integrity Council (PAWSIC) | Member |
| 2024-Present | Wound Care Collaborative Community – Tools Workgroup | Member |
| 2023-Present | National Pressure Injury Advisory Panel (NPIAP) | |
| | Alumni Panel | Member |
| | Standards Committee | Member |
| | Pressure Injury Early Detection Subcommittee | Member |
| 2021-2025 | PDSI Terminology Subgroup | Chair |
| 2021-Present | PDSI Mechanical Properties and Durability Subgroup | Member |
| 2020-Present | Prophylactic Dressing Standards Initiative (PDSI) | Member |
| 2019-2022 | National Pressure Injury Advisory Panel | Board of Directors |
| 2018-2022 | Support Surface Standards Initiative (S3i) | Member |
| 2005-2021 | Rehabilitation Engineering Society of North America (RESNA) | Member |
| 2017-2021 | ANSI/RESNA Wheelchair Seating Standards Subcommittee | Member |
| 2012-2013 | RESNA Meetings Committee | Member |
| 2012-2013 | RESNA Meetings Committee Student Career Track | Chair |
| 2012-2013 | RESNA Student Development Committee | Chair |
| 2011-2012 | RESNA Student Scientific Paper Competition | Chair |

Editorships and Editorial Boards

| | | |
|----------------|--|--------------------------------|
| 2011 – Present | Disability and Rehabilitation: Assistive Technology | Editorial Board |
| 2022 – Present | Wheelchair Skills Manual Editorial Committee | Member |
| 2022 | Soft Tissue Biomechanics in Wound Healing and Prevention, <i>Frontiers in Bioengineering and Biotechnology</i> | Journal Special Edition Editor |

National and International Scientific Review

| | |
|------|--|
| 2024 | Swiss National Science Foundation |
| 2022 | NIH, National Institute of Child Health and Human Development Special Emphasis Panel: Home and Community-Based Physical Activity Interventions to Improve the Health of Wheelchair Users |

2010-2012, 2015, 2019,
2021, 2022, 2025, 2026

Veterans Health Administration Grant Review Panel