

CURRICULUM VITAE
University of Pittsburgh
School of Health and Rehabilitation Sciences

BIOGRAPHICAL

Name: Jonathan Lee Pearlman

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EDUCATION and TRAINING

UNDERGRADUATE:

Dates Attended	Name & Location	Degree Received & Year	Major Subject
1993-1995	Northern Arizona University, Flagstaff, AZ	N/A	Mechanical Engineering
1996-1998	UC Berkeley, Berkeley, CA	Bachelors of Science, 1998	Mechanical Engineering

GRADUATE:

Dates Attended	Name & Location	Degree Received & Year	Major Subject
1998-2002	Cornell University, Ithaca, NY	Masters of Science, 2002	Mechanical Engineering
2003-2007	University of Pittsburgh, Pittsburgh, PA	Doctor of Philosophy, 2007	Rehabilitation Science & Technology

APPOINTMENTS and POSITIONS

ACADEMIC:

Years Inclusive	Name & Location of Institution or Organization	Rank/Title
2007-Present	University of Pittsburgh, Dept. of Rehabilitation Science & Technology, Pittsburgh, PA	-Chair (2018-Present) -Associate Professor (2016-present) -Assistant Professor (2007-2016)
2008 - Present	VA Pittsburgh Healthcare Systems. Human Engineering Research Labs, Pittsburgh, PA	-Biomedical Research Scientist (2008-Present) -Associate Director of Engineering (2010- 2015) -Associate Director of Product Innovation & Technology Translation (2015-Present)

NON-ACADEMIC:

Years Inclusive	Name & Location of Institution or Organization	Rank/Title
2015-Present	US Food and Drug Administration, Washington, DC	Special Government Employee

CERTIFICATION and LICENSURE

MEDICAL or OTHER PROFESSIONAL LICENSURE

<i>Certifying Board</i>	<i>Title of Certification</i>	<i>Year</i>
<i>Pennsylvania State Registration Board</i>	<i>Engineer in Training (EIT)</i>	<i>2009</i>

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC COMMITTEES

<i>Organization</i>	<i>Years</i>
American Society of Mechanical Engineers	1998-Present
Rehabilitation And Assistive Technology Society of North America	2003-Present
- Chair, RESNA Special Interest Group (SIG) on Assistive Technology For Developing Countries (SIG17)	2007-2009
International Standards Organization, TC 173 Committee Member	2008-Present
- Convener for Working Group 1 (Manual Wheelchairs)	2018-Present
ANSI/RESNA Wheelchair Standards Committee	2008- Present
Veterans Administration, Integrated Product Team member on wheeled mobility	2012-2015
Member USAID Evidenced Based Practice Committee on Wheelchairs	2012-2014
Director, International Society of Wheelchair Professionals	2014-Present
Member, Wheelchair Advisory Group of the International Society of Prosthetics & Orthotics	2017-Present
Member, Steering Committee for Market Shaping in AT Sector. A project sponsored by USAID and led by Boston Consulting Group in collaboration with WHO, UNICEF, DFID.	2018-Present

HONORS AND AWARDS

Title of Award (student's name, if received by advisee)	Year(s)
ASEE Best Student Design Award	1995
Rory A Cooper/Dion Johnson Award	2005
Sean and Stephanie Shimada Award (Yasmin Garcia)	2010
Best Mentor Award in NSF REU	2012
Sean and Stephanie Shimada Award (Jonathan Duvall)	2012, 2013
University of Pittsburgh Innovation Award	2012-2018
RST Thomas J. O'Connor Award (Maria Toro)	2013
Rory A Cooper/Dion Johnson Award (Maria Toro)	2014

RST Todd Hargroder Award (Maria Toro)	2014
University of Pittsburgh's Selfless Spirit Award (Jonathan Duvall)	2014
IGERT Fellowship (Jonathan Duvall)	2014-2017
RESNA Emerging Leader Award (Maria Toro)	2015
RESNA Student Scientific Paper Winner (Maria Toro)	2015
Rory A Cooper/Dion Johnson Award (Jon Duvall)	2015
1st Place, VA Research Week Young Investigator Competition (Anand Mhatre)	2015
IGERT Fellowship (Joe Ott)	2016-2019
CONACYT Fellowship (Yohali Burrola)	2016-2020
Pitt Provost Award (Alex Miles)	2017
Appointed to the Colombian National Council for Disability (Maria Toro)	2017
Winner, <u>Goldman Prize for Entrepreneurship in Education</u> (Mahender Mandala)	2017
Winner, <u>Dick Thornburgh Forum Disability Service Award</u> (Jon Duvall)	2017

PUBLICATIONS

1) Refereed Articles (*= advisee is lead author)

1. Kopperdahl, D. L., **Pearlman, J. L.**, & Keaveny, T. M. (2000). Biomechanical consequences of an isolated overload on the human vertebral body. *J Orthop Res*, 18(5), 685-690. PMID 11117287; DOI: 10.1002/jor.1100180502
2. **Pearlman, J. L.**, Roach, S. S., & Valero-Cuevas, F. J. (2004). The fundamental thumb-tip force vectors produced by the muscles of the thumb. *J Orthop Res*, 22(2), 306-312. PMID: 15013089 DOI: 10.1016/j.orthres.2003.08.001
3. **Pearlman, J. L.**, Cooper, R. A., Karnawat, J., Cooper, R., & Boninger, M. L. (2005). Evaluation of the safety and durability of low-cost non programmable electric powered wheelchairs. *Arch Phys Med Rehabil*, 86(12), 2361-2370 PMID: 16344036 DOI: 10.1016/j.apmr.2005.07.294
4. Wolf, E., **Pearlman, J.**, Cooper, R. A., Fitzgerald, S. G., Kelleher, A., Collins, D. M., Cooper, R. (2005). Vibration exposure of individuals using wheelchairs over sidewalk surfaces. *Disabil Rehabil*, 27(23), 1443-1449. PMID: 16418059 DOI: 10.1080/09638280500264709

5. **Pearlman, J.**, Cooper, R. A., Zipfel, E., Cooper, R., & McCartney, M. (2006). Towards the development of an effective technology transfer model of wheelchairs to developing countries. *Disabil Rehabil Assist Technol*, 1(1-2), 103-110. PMID: 19256173
6. Wolf, E., Cooper, R. A., **Pearlman, J.**, Fitzgerald, S. G., & Kelleher, A. (2007). Longitudinal assessment of vibrations during manual and power wheelchair driving over select sidewalk surfaces. *J Rehabil Res Dev*, 44(4), 573-580. PMID: 18247254
7. Zipfel, E., Cooper, R. A., **Pearlman, J.**, Cooper, R., & McCartney, M. (2007). New design and development of a manual wheelchair for India. *Disabil Rehabil*, 29(11-12), 949-962. PMID: 17577729 DOI: 10.1080/09638280701240672
8. Authier, E. L., **Pearlman, J.**, Allegretti, A. L., Rice, I., & Cooper, R. A. (2007). A sports wheelchair for low-income countries. *Disabil Rehabil*, 29(11-12), 963-967. PMID: 17577730 DOI: 10.1080/09638280701240714
9. Liu, H. Y., Cooper, R. A., **Pearlman, J.**, Cooper, R., & Connor, S. (2008). Evaluation of titanium ultralight manual wheelchairs using ANSI/ RESNA standards. *J Rehabil Res Dev*, 45(9), 1251-1267. PMID: 19319751
10. **Pearlman, J.**, Cooper, R., Chhabra, H. S., & Jefferds, A. (2009). Design, development and testing of a low-cost electric powered wheelchair for India. *Disabil Rehabil Assist Technol*, 4(1), 42-57. PMID: 19172480 DOI: 10.1080/17483100802338440
11. Liu, H. Y., **Pearlman, J.**, Cooper, R., Hong, E. K., Wang, H., Salatin, B., & Cooper, R. A. (2010). Evaluation of aluminum ultralight rigid wheelchairs versus other ultralight wheelchairs using ANSI/RESNA standards. *J Rehabil Res Dev*, 47(5), 441-455. PMID: 20803388
12. Wang, H., Liu, H. Y., **Pearlman, J.**, Cooper, R., Jefferds, A., Connor, S., & Cooper, R. A. (2010). Relationship between wheelchair durability and wheelchair type and years of test. *Disabil Rehabil Assist Technol*, 5(5), 318-322. PMID: 20131972
13. *Jefferds, A. N., Beyene, N. M., Upadhyay, N., Shoker, P., **Pearlman, J. L.**, Cooper, R. A., & Wee, J. (2010). Current state of mobility technology provision in less-resourced countries. *Phys Med Rehabil Clin N Am*, 21(1), 221-242. PMID: 19951788
14. *Mason, Z. D., **Pearlman, J.**, Cooper, R. A., & Laferrier, J. Z. (2011). Comparison of prosthetic feet prescribed to active individuals using ISO standards. *Prosthet Orthot Int*, 35(4), 418-424. PMID: 22031596
15. Hong E., **Pearlman J.**, Salatin B., Wang H., Liu H., Cooper R. A., Hargroder T.(2011). Design and Development of a lightweight durable adjustable composite backrest mounting. *Assistive Technology*, 23(1), 24-35
16. *Jefferds, A. N., **Pearlman, J. L.**, Wee, J., & Cooper, R. A. (2011). International mobility technology research: a Delphi study to identify challenges and compensatory strategies. *Assist Technol*, 23(4), 232-242. PMID: 22256672

17. Laferrier J.Z., Rice I., **Pearlman J.**, Sporner M., Cooper R.M., Liu H., Cooper RA., (2012) Technology to Improve Sports Performance in Wheelchair Sports, *Sports Technology*, pp. 4-19, Vol. 5, No. 1-2
18. *Toro M.L., Garcia Y., Ojeda A. M., Dausey D. J., **Pearlman J.**(2012). Quantitative Exploratory Evaluation of the Frequency, Causes and Consequences of Rehabilitation Wheelchair Breakdowns Delivered at a Paediatric Clinic in Mexico, **Disability, CBR & Inclusive Development**, pp. 48-64, Vol. 23, No. 3. PMID: 19203675
19. Wollstein, R., Rodgers, J., Ogden, T., Loeffler, J., & **Pearlman, J.** (2012). A Novel Splint for Proximal Interphalangeal Joint Contractures: A Case Report. *Arch Phys Med Rehabil*. PMID: 22484101
20. Beyene, N. M., Steinfeld, A., **Pearlman, J.**, & Cooper, R. A. (2012). Exploration of health perceptions and assistive technology use by driving status as related to transportation independence in New Delhi, India. *Disabil Rehabil Assist Technol*, 7(4), 314-322. PMID: 22324852
21. *Garcia-Mendez, Y., **Pearlman, J. L.**, Cooper, R. A., & Boninger, M. L. (2012). Dynamic stiffness and transmissibility of commercially available wheelchair cushions using a laboratory test method. *J Rehabil Res Dev*, 49(1), 7-22. PMID: 22492334
22. *Gebrosky, B.T., **Pearlman, J.L.**, Cooper, R.A., Cooper, R., Kelleher, A.K. (2013). Evaluation of Lightweight Wheelchairs using ANSI/RESNA Testing Standards. *JRRD* PMID: 24699973
23. *Goldberg, M. R., & **Pearlman, J. L.** (2013). Best Practices for Team-Based Assistive Technology Design Courses. *Ann Biomed Eng*. doi: 10.1007/s10439-013-0798-2 PMID: 23536114
24. *Garcia Mendez Y., **Pearlman J. L.**, Boninger M. L., Cooper R. A., (2013) Health Risks of Vibration Exposure to Wheelchair Users in the Community. *J Spinal Cord Med*. DOI: 10.1179/2045772313Y.0000000124. PMID: 23820152
25. Souza A., **Pearlman J. L.**, Cooper R. M., Kelleher A. R., Gebrosky B., Cooper R. A., (2013) Evaluation of Scooters Using ANSI/RESNA Testing Standards, *Journal of Rehabilitation Research and Development*. pp. 1017-1034, Vol. 50, No.7 PMID: 24301438
26. **Jonathan Pearlman** PhD, Rory Cooper PhD, Jonathan Duvall BS & Ryan Livingston (2013): Pedestrian Pathway Characteristics and Their Implications on Wheelchair Users, *Assistive Technology: The Official Journal of RESNA*, DOI:10.1080/10400435.2013.778915. PMID: 24620706
27. *Duvall J., Cooper R. A., Sinagra E., Stuckey D., Brown J., **Pearlman J.**, (2013) Development of Surface Roughness Standards for Pathways Used by Wheelchairs, **Transportation Research Record**, no. 2387, pp. 149-156
28. Goldberg, M.R., Karimi, H.A., **Pearlman, J.L.** (2014). Interactive, mobile, AGIle and novel education (IMAGINE): a conceptual framework to support students with mobility challenges in higher education. *Disability and Rehabilitation: Assistive Technology*. PMID: 25212492
29. Hong, E.K., Dicianno, B.E., **Pearlman, J.L.**, Cooper, R, Cooper R.A. (2014). Comfort and stability of wheelchair backrests according to the TAWC (tool for assessing wheelchair discomfort). *Disability and Rehabilitation: Assistive Technology*. July, 2014. PMID: 25036985

30. Karimi, H.A, Dias, M.B., **Pearlman, J.L.**, Zimmerman, G.J. (2014). Wayfinding and Navigation for People with Disabilities Using Social Navigation Networks, *European Alliance for Innovation/IEEE ColabroateCOM special Issue on Wayfinding*.
31. *Mandala, M., Goldberg, M., **Pearlman, J.** (2014) Combining Veterans And Teachers in A Unique Service Learning Experience, *International Journal For Service Learning in Engineering. Special Edition*, pp. 381-405, Fall 2014
32. Hong, E.K., Cooper R.A., **Pearlman, J.L.**, Dicianno, B., Cooper R. (2015) Comfort and stability of wheelchair backrests according to the TAWC (tool for assessing wheelchair discomfort. *Disability and Rehabilitation: Assistive Technology*. July, 2015. PMID: 25036985
33. *Mhatre, A., Duvall, J., Ding D., Cooper, R.A., **Pearlman J.** (2016). Development of a bed-integrated weight measurement system for people with disabilities. *Disability and Rehabilitation: Assistive Technology*. PMID: 26852778
34. *Toro, M. Eke, C. **Pearlman, J.** (2016). The impact of the World Health Organization 8-steps in wheelchair service provision in wheelchair users in a less resourced setting: a cohort study in Indonesia. *BMC Health Services Research* PMID: 26801984
35. YK Wu, HY Liu, A Kelleher, **J Pearlman**, RA Cooper., (2016) Evaluating the usability of a smartphone virtual seating coach application for powered wheelchair users, *Medical Engineering & Physics*, 2016. PMID: 27079179
36. Nickel, E., Hansen, A., **Pearlman, J.**, Goldish, G., (2016) A Drive System to add Standing Mobility to a Manual Standing Wheelchair, *Assistive Technology: The Official Journal of RESNA*. PMID: 27184610
37. Wu, Y., Liu, H., Kelleher, A., **Pearlman, J.**, Ding, D., Cooper, R. (2016) **Power seat function usage and wheelchair discomfort for power wheelchair users**, *The Journal of Spinal Cord Medicine*, Volume 40, Issue 1, February 2017, Pages 62-69, PMID: 27366954
38. *Duval, J., Sinagra, E. Cooper, R., **Pearlman, J.** (2016) **Proposed pedestrian pathway roughness thresholds to ensure safety and comfort for wheelchair users**, *Assistive Technology: The Official Journal of RESNA* PMID: 27588607
39. *Toro, M., Worobey, L., Boninger, M., Cooper, R., **Pearlman, J.** (2016) Type and Frequency of Reported Wheelchair Repairs and Related Adverse Consequences Among People With Spinal Cord Injury, *Archives of Physical Medicine and Rehabilitation*, Volume 97, Issue 10, October 2016, Pages 1753–1760 PMID: 27153763
40. *Duvall J.A., **Pearlman J.L.**, Karimi H.A. (2016) Development of Route Accessibility Index to Support Wayfinding for People with Disabilities. In: Leon-Garcia A. et al. (eds) *Smart City 360°*. SmartCity 360 2016. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 166. Springer, Cham
41. Hoffmann, M., Burke, J., **Pearlman, J.**, Fiedler, G., Hess, A., Schull J., Hudson, S.E., Mankoff J., (2016) Clinical & Maker Perspectives on the Design of Assistive Technology with Rapid Prototyping Technologies, *ASSETS '16 Proceedings of the 18th International ACM SIGACCESS Conference on Computers and Accessibility*, pp. 251-256

42. *Toro, M., Bird, E., Oyster, M., Worobey, L., Lain, M., Bucior, S., Cooper, R., **Pearlman, J.** (2017) Development of a Wheelchair Maintenance Training Programme and Questionnaire for Clinicians and Wheelchair Users, *Disability & Rehabilitation: Assistive Technology*, Published online 27th, January, 2017 PMID: 28129705
43. Karmaraj, D., Bray, N., Rispin, K., Kankipati, P., **Pearlman, J.**, (2017) A Conceptual Framework to Assess Effectiveness in Wheelchair Provision. *African journal of disability*, 6(1), 1-5. PMID: 28936421
44. Ruston, P., Fung, K., Gartz, R., Goldberg, M., Toro, M., Seymour, N., **Pearlman, J.**, (2017), Global Wheelchair Service Provision Education in Academia. *African journal of disability*, 6(1), 1-8. PMID: 28936415
45. *Munera, S., Goldberg, M., Kandavel, K., **Pearlman, J.**, (2017), Development and evaluation of a wheelchair service provision training of trainers programme. *African journal of disability*, 6(1), pp.1-13. PMID: 28936423
46. *Mhatre, A., Martin, D., McCambridge, M., Reese, N., Sullivan, M., Schoendorfer, D., Wunderlich, E., Rushman, C., Mahilo, D., **Pearlman, J.**, (2017), Developing product quality standards for wheelchairs used in less-resourced environments. *African journal of disability*, 6(1), 1-15. PMID: 28936410
47. Kelleher, A., Dicianno, B., Eckstein, S., Schein, R. **Pearlman, J.**, Cooper, R. (2017) Consumer Feedback to Steer the Future of Assistive Technology Research and Development: A Pilot Study. *Topics in Spinal Cord Injury Rehabilitation*, 23(2). PMID: 29339885
48. **Pearlman, J.**, & Cooper, R. (2017). Introduction to the Special Issue on Wheelchairs in Less Resourced Settings, *African Journal of Disability*. *Journal of Disability*, 6, 0.
49. Gartz, R., Goldberg, M., Miles, A., Cooper, R., **Pearlman, J.**, Schmeler, M., Jonassen Bittman, S. and Hale, J., (2017). Development of a contextually appropriate, reliable and valid basic Wheelchair Service Provision Test. *Disability and Rehabilitation: Assistive Technology*, 12(4), pp.333-340.
50. *Mhatre, A., Ott, J., & **Pearlman, J.** (2017). Development of wheelchair caster testing equipment and preliminary testing of caster models. *African journal of disability*, 6(1), 1-16. PMID: 29062762
51. Dicianno, B., Joseph, J., Eckstein, S, Zigler, C., Schmeler, M., Schein, R, **Pearlman, J.**, Cooper, R., (2018). The future of the provision process for mobility assistive technology: a survey of providers, *Disability and Rehabilitation: Assistive Technology*, DOI: 10.1080/17483107.2018.1448470 PMID: 29557196
52. *Mandala, M., Goldberg, M., Schunn, C., Dow, S., **Pearlman, J.** (2018) Uncovering the Practices, Challenges, and Incentives for Engineering Design Faculty, *International Journal of Engineering Education*, 34-4
53. Gebrosky, B., Pearlman, J., Cooper, R. (2018) Comparison of High-Strength Aluminum Ultralight Wheelchairs Using ANSI/RESNA Testing Standards. *Topics in Spinal Cord Injury Rehabilitation*: January 2018, Vol. 24, No. 1, pp. 63-77. <https://doi.org/10.1310/sci16-00057> PMID: 29434462

54. *Mandala, M., Goldberg, M., Schunn, C., Dow, S., **Pearlman, J.** (2018) Impact of Collaborative Team Peer Review on the Quality of Feedback in Engineering Design Projects, *International Journal of Engineering Education*, 34-4
55. Burrola-Mendez Y, Goldberg M, Gartz R, **Pearlman J** (2018) Development of a Hybrid Course on Wheelchair Service Provision for clinicians in international contexts. *PLoS ONE* 13(6): e0199251. doi:10.1371/journal.pone.0199251 PMID 29906794

2) Reviews, invited published papers, proceedings of conference and symposia, monographs, books, and book chapters

1. Wolf, E.J., Collins, D., Chavez, E., **Pearlman, J.L.**, Karmarkar A., Cooper R., Cooper, R.A. (2005), Mobility Aids, In J. Webster (Ed.), *Wylie Encyclopedia of Medical Devices and Instrumentation* (544-555). New York, NY: John Wylie & Sons, Inc.
2. **Pearlman, J.L.**, Cooper, R.A. (2006). Wheeled Mobility: Wheelchairs and Personal Transportation. In G. Wnek & G. Bowlin (Eds.), *The Encyclopedia of Biomaterials and Biomedical Engineering* (3083-3092). New York, NY: Informa Healthcare.
3. **Pearlman, J.L.**, Cooper, R.A., (2007). Technology Transfer, In R.A. Cooper, H. Ohnabe, D.A. Hobson (Eds.), *An Introduction to Rehabilitation Engineering* (67-76). Boca Raton, FL: Taylor & Francis Group.
4. Koontz, A., **Pearlman, J.L.**, Impink, B., Cooper, R.A., Wilkinson, M. (2007). Wheelchairs, In R.A. Cooper, H. Ohnabe, D.A. Hobson (Eds.), *An Introduction to Rehabilitation Engineering* (129-156). Boca Raton, FL: Taylor & Francis Group.
5. **Pearlman, J.L.**, Cooper, R.A., Krizack, M, Lindsley, A., Wu, Y., Reisinger, KD, Noon, J. (March/April 2008). Lower-Limb Prostheses and Wheelchairs in Low-Income Countries (An Overview). *IEEE Engineering In Medicine and Biology Magazine*, 12-22.
6. *Duvall, J., **Pearlman, J**, Karimi, H. (2016) Development of Route Accessibility Index to Support Wayfinding for People with Disabilities. Chapter in Smart City 360, Volume 166 of the lecture series Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering pp 104-112

3) Published abstracts

1. Hollerbach, K., Perfect, S., **Pearlman, J.L.**, Hollister, A., Beaubien, B. (1997) A 3-D Finite Element Model of the Index Finger. Proceedings of the 1997 ASME Bioengineering Conference, Sun River, OR.
2. Kuxhaus, L., **Pearlman, J.L.**, Weisman M., Valero-Cuevas, F.J. (2003), Predicting Changes In Thumb-Tip Force After Nerve Impairment. Proceedings of the American Society of Biomechanics, Toledo, OH.
3. **Pearlman, J.L.**, Weisman M., Roach, S.S., Hermanson, J.W., Valero-Cuevas, F.J. (2003), The Fundamental Thumb-tip Force Vectors Produced By The Muscles Of The Thumb. Proceedings of the American Society of Biomechanics. Toledo, OH.

4. **Pearlman, J.L.**, Weisman M., Roach, S.S., Hermanson, J.W., Valero-Cuevas, F.J. (2003), Thumb-tip Force Vectors Produced By Individual Muscles Of the Thumb Do Not Superimpose Linearly. Proceedings of the IEEE Engineering in Medicine and Biology Society, Cancun, Mexico.
5. **Pearlman, J.L.**, Zipfel, E., Cooper, R.A., (2004) Meeting the Need for Wheelchairs and other Assistive Technologies in the Developing World: A Call For More Action. Proceedings of the 2004 Engineering for a Sustainable World Conference, Stanford, CA.
6. Zipfel, E., Cooper, R.A., McCartney, M., Duncan, J., Ammer, W., **Pearlman, J.L.**, (2004) Design and Development of a Manual Wheelchair for India, Proceedings of the 2004 Rehabilitation Engineering Society of North America. Orlando, FL.
7. Kelleher A.R., Cooper, R.A., Wolf E., Fitzgerald, S.F., **Pearlman, J.L.**, (2004) Revaluation of the Vibration Exposure Power Wheelchair Users Experience When Driving Over Selected Sidewalk Surfaces, Proceedings of the 2004 Rehabilitation Engineering Society of North America. Orlando, FL.
8. **Pearlman, J.L.**, Cooper, R.A., Wolf E., Kelleher A.R., Fitzgerald, S.F., Ammer, W., (2004) Vibrations During Manual Wheelchair Propulsion Over Selected Sidewalk Surfaces Are Sensitive To Weather-Related Surface Wear. Proceedings of the 2004 Rehabilitation Engineering Society of North America. Orlando, FL.
9. Zipfel, E., **Pearlman, J.L.**, Cooper, R.A., (2004) Meeting the Need for Wheelchairs and other Assistive Technologies in the Developing World. Poster Presentation at the World Bank Disability Conference, Washington, DC., November 30-December 1, 2004.
10. **Pearlman, J.L.**, Cooper, R.A., Karnawat, J., Cooper R., Boninger, M.L., Economical (K0010) Power Wheelchairs Have Poor Reliability and Important Safety Problems: An ANSI/RESNA Wheelchair Standards Comparison Study. Proceedings of the 2005 Rehabilitation Engineering Society of North America, Atlanta, GA., June 25-27, 2005.
11. **Pearlman, J.L.**, Cooper, R.A., Cooper R., Zipfel, E., McCartney, M., A Demonstration of the Manufacturing Model of Transferring Wheelchair Technology to Developing Countries. Proceedings of the 2005 Rehabilitation Engineering Society of North America. Atlanta, GA., June 25-27, 2005.
12. Wolf, E.J., Cooper, R.A., **Pearlman, J.L.**, Collins, D., Kelleher, A., Longitudinal Assessment of Vibrations during Electric Powered Wheelchair Propulsion over Selected Sidewalk Surfaces. Proceedings of the 2005 Rehabilitation Engineering Society of North America. Atlanta, GA., June 25-27, 2005.
13. Cowan, R., Boninger, M.L., Mercer, J.L., **Pearlman, J.L.**, Koontz, A., Cooper, R.A., Factors Affecting Start-Up Propulsion Forces. Proceedings of the 2005 Rehabilitation Engineering Society of North America. Atlanta, GA., June 25-27, 2005.
14. Mercer, J.L., Boninger, M.L., Koontz, A., **Pearlman, J.L.**, Boninger, D., Cooper R.A., Effect of Weight On Wheelchair Propulsion Over Various Surfaces. Proceedings of the 2005 Rehabilitation Engineering Society of North America. Atlanta, GA., June 25-27, 2005.

15. Zipfel, E., Cooper, R.A., **Pearlman, J.L.**, McCartney, M., Puhlman, J., Design and Development of a New Tilt-in-Space Pediatric Wheelchair. Proceedings of the 2005 Rehabilitation Engineering Society of North America. Atlanta, GA., June 25-27, 2005.
16. McNeal, A., Cooper, R.A., **Pearlman, J.L.**, (2005) Critical Factors For Wheelchair Technology Transfers To Developing Countries—Materials and Design Constraints. Proceedings of the 2005 Rehabilitation Engineering Society of North America. Atlanta, GA., June 25-27, 2005.
17. Mercer J., Boninger M.L., Koontz A.M., **Pearlman J.L.**, Cooper R.A., Kinetic Analysis of Manual Wheelchair Propulsion Over Three Surfaces, Proceedings of the 29th Congress of the International Society of Biomechanics and 29th Annual Meeting of the American Society of Biomechanics, Cleveland State University, OH, CD-ROM, August 1-5, 2005.
18. **Pearlman J.L.**, A Demonstration of the Manufacturing Model of Transferring Wheelchair Technology to Developing Countries, Proceedings of the 20th Japanese Conference on the Advancement of Assistive and Rehabilitation Technology (RESJA), Saga City, Japan, September 2005.
19. Cooper, R.A., **Pearlman J.L.**, Cooper R.M., Symposium on Wheelchairs and Seating, Proceedings of the 20th Japanese Conference on the Advancement of Assistive and Rehabilitation Technology (RESJA), Saga City, Japan, p. 178, September 2005.
20. **Pearlman, J.L.**, Cooper, R.A., Zipfel, E., McCartney, M., Puhlman, J., Stegall, N. (2006) A Power Wheelchair Design Appropriate For The Physical, Cultural, Technological, And Economic Conditions In India. Proceedings of the 2006 Rehabilitation Engineering Society of North America, Atlanta, GA.
21. **Pearlman, J.L.**, (2006) Review of Literature Related to Wheelchairs for Developing Countries, *World Health Organization/International Society of Prosthetics and Orthotics/US Agency for International Development Consensus Conference on wheelchair provision in developing countries.* Bangalore, India.
22. Wolf E.J., **Pearlman J.L.**, Cooper R.A., Fitzgerald S.G., Kelleher A.R., Collins D.M., Boninger M.L., Cooper R.M., Smith D.R., Vibration Exposure of Individuals Using Wheelchairs Over Concrete Paver Surfaces, 8th International Conference on Concrete Block Paving, San Francisco, CA, November 6-8, 2006.
23. **Pearlman J.L.**, Wheelchair Provision in Developing Countries, Consensus Conference on Wheelchairs in Developing Countries, Bangalore, India, November 6-11, 2006.
24. **Pearlman J.L.**, Role of Users in Research and Design, Consensus Conference on Wheelchairs in Developing Countries, Bangalore, India, November 6-11, 2006.
25. **Pearlman J.L.**, Review of Literature on Wheelchairs for Developing Countries, Consensus Conference on Wheelchairs in Developing Countries, Bangalore, India, November 6-11, 2006.
26. **Pearlman J.L.**, Designing Wheeled Mobility Devices for Remote Environments: A Case Study From India, International Seating Symposium, p. 147, Orlando, FL, March 8-10, 2007.

27. **Pearlman J.L.**, Seating and Mobility Issues in Developing Countries: Current Issues and Progress, European Seating Symposium, Dublin, Ireland, May 2-4, 2007.
28. **Pearlman, J.L.**, Jefferds, A., Nagai, I., Chhabra, H.S., Cooper, R.A., Designing Assistive Technology For Less-Resourced Environments: An Online Method to Gage Accessibility Barriers and Collect Design Advice. Proceedings of the 2007 Rehabilitation Engineering Society of North America, Phoenix, AZ., June 15-19, 2007.
29. Zipfel E, Cooper RA, Boninger DS, **Pearlman J**, McCartney M, Product Development of a Pediatric Wheelchair, Proceedings of the Annual RESNA Conference, Phoenix, AZ, CD-ROM, June 15-19, 2007.
30. Liu H, Cooper RA, Fitzgerald SG, **Pearlman J**, Connor S, Souza AL, Evaluation of Titanium Wheelchairs Using the ANSI/RESNA Standards, Proceedings of the Annual RESNA Conference, Phoenix, AZ, CD-ROM, June 15-19, 2007.
31. Ding D, Cooper RA, **Pearlman J**, Incorporating Participatory Action Design into Research and Education, International Conference on Electrical Engineering, Coimbra, Portugal, September 3-7, 2007.
32. Cooper RA, **Pearlman J**, Cooper RM, International Research and Development: Indian Spinal Injuries Center - University of Pittsburgh Collaboration, pp. 40-41, Proceedings of the International Spine and Spinal Injuries Conference, New Delhi, India, February 22-24, 2008.
33. **Pearlman J**, Cooper RA, Jefferds A, Vidhani J, Upadhyay N, Design And Testing Of A Low Cost, Single Motor Propelled Electric Powered Wheelchair For India (SIMPL-EPW), Proceedings of the Annual RESNA Conference, Arlington VA, CD-ROM, June 26-30, 2008.
34. **Pearlman J**, Cooper RA, Improving Assistive Technology with Participatory Design Methods, International Conference on Mechanics in Medicine and Biology, Pittsburgh, PA, July 23-25, 2008.
35. Cooper RA, **Pearlman J**, Chhabra HS, Cooper RM, Collaborative Training & Research in Assistive Technology: University of Pittsburgh and Indian Spinal Cord Injuries Centre as a Model, International Spinal Cord Injury (ISCoS) Annual Scientific Meeting and 3 Day Workshop on Spinal Cord Injury Management, Durban, South Africa, September 1-4, 2008.
36. Beyene N, Jefferds A, **Pearlman J**, International Training and Research on the Impact of Assistive Technologies for People with Disabilities in India, National Science Foundation Engineering Education Awardees Conference, Reston, VA, February 1-3, 2009.
37. Hong E, **Pearlman J**, Salatin B, Wang H, Liu H, Cooper RA, Hargroder T, Design Changes of a Lightweight, Durable, Adjustable Composite Backrest Mounting, Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference, CD-Rom, June 23-27, 2009.
38. Molinero A, Collins DM, Teodorski E, Cooper RA, **Pearlman J**, Karmarkar A Manual Wheelchair Propulsion Over Cross-Sloped Surfaces With Varying Characteristics and Users – Perceptions of Difficulty, Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference, CD-Rom, June 23-27, 2009.

39. Jefferds, A.N., Beyene, N., Upadhyay N., Shoker, P., **Pearlman, J.L.**, Cooper, R.A., User Satisfaction and Wheelchair Skills in India: A Pilot Study, *Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference*, New Orleans, LA., June 23-27, 2009.
40. Liu H, **Pearlman J**, Hong E, Salatin B, Wang H, Cooper RM, Cooper RA, Comparison of Durability and Cost Effectiveness Between Aluminum and Titanium Ultralight Rigid Frame Manual Wheelchairs, *Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference*, CD-Rom, June 23-27, 2009.
41. **Pearlman J.L.**, Cooper R., Chhabra, H.S., Jefferds, BS, Anbarasan, I. (2009) Designing Medical Products for Developing Countries: An Effective, Low-Cost Tool For Gathering and Interpreting the Mobility Needs of Wheelchair Users in India. *ASME IDETC/CIE*. San Diego, CA., August 30-September 2, 2009
42. **Pearlman, J.L.**, (2010) What We Know and Need to Find Out About the Health Implications of Vibrations on Wheelchair Users, *International Seating Symposium*, Vancouver, BC, Canada.
43. Winter, A., Bollini, M., DeLatte, D., **Pearlman, J.L.**, and Scolnik, N. (2010) The Design, Fabrication, and Performance of the East African Trial Leveraged Freedom Chair. *Proceedings of ASME 2010 International Design Engineering Technical Conference, IDETC/CIE*. Montreal, Quebec, Canada.
44. Kumar A, **Pearlman JL**, Mason Z, Karmarkar A, Cooper RA, Cooper RM, Mechanical Testing of Heavy Duty Prosthetic Feet, UPMC Institute of Rehabilitation Research Day, June 2, 2010.
45. Kumar A., **Pearlman J.L.**, Mason Z., Karmarkar A., Cooper R.M., Laferrier J.Z., Cooper R.A. (2010) Mechanical Testing of Heavy Duty Prosthetic Feet , *Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference*, Las Vegas, NV., June 26-30, 2010
46. Wang H., Liu H., **Pearlman J.L.**, Jefferds A., Cooper R.M., Cooper R.A., Seventeen Years of Wheelchair Life-cycle Testing—the Impact of Time, Materials and Wheelchair Designs on Durability and Value, *Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference*, Las Vegas, NV., June 26-30, 2010.
47. Hong E, **Pearlman J**, Dicianno BE, Cooper RM, Cooper RA, Comfort and stability of manual wheelchair backrest through the TAWC (Tool for Assessing Wheelchair disComfort), *International Seating Symposium*, Nashville TN, March 3-5, 2011.
48. *Garcia-Mendez, Y., Pearlman, J. L., Cooper, R. A., & Boninger, M. L., Vibration dampening characteristics of wheelchair cushions. Paper presented at the 27th International Seating Symposium, Nashville, TN., March 3-5, 2011.*
49. Condiotti, J.L., **Pearlman, J.L.**, Gebrosky, B., Duvall, J., Cooper, R.A., Upgrade to Power Steering of the Single Motor Propelled Wheelchair (SIMPL-WC). *Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference*, Toronto, Canada, June 5-8, 2011.
50. Garcia, Y., **Pearlman, J.L.**, Hayashi, S., Vazquez, J.J., Cooper, R.A., Boninger, M.L., Measuring Vibration Exposure to Wheelchair Users in the Community. *Proceedings of the Rehabilitation*

Engineering and Assistive Technology Society of North America Conference, Toronto, Canada, June 5-8, 2011.

51. Perilstein, P., **Pearlman J.L.**, Manual Wheelchair Safety? Adverse Reports to the FDA. *Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference, Toronto, Canada, June 5-8, 2011.*
52. Toro, M.L., Garcia, Y., Ojeda A.M., Dausey, D., **Pearlman, J.L.** (2012) Evaluation of the Incidence of Failures in depot-style WCs in a Pediatric Rehabilitation Facility in Mexico. *Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference. Baltimore, MD.*
53. Kamerath JH, Garcia-Mendez Y, Cooper RA, **Pearlman J**, Vibration Exposure in Wheelchair Users : An Observational Cohort Study, AAP Annual Meeting, Las Vegas NV, February 28-March 3, 2012.
54. Garcia-Mendez, Y., **Pearlman, J. L.**, Cooper, R. A., & Boninger, M. L. (March, 2012). Assessing the risk of vibration exposure during wheelchair propulsion. Paper presented at the 28th International Seating Symposium, Vancouver, BC, Canada.
55. Goldberg M, **Pearlman J**, "Technology Innovations for Persons with Disabilities (TIPeD): A Program to Develop Impactful Technologies and Teach Students the Fundamentals of Entrepreneurship", Proceedings of the National Collegiate Innovators and Inventors Alliance (NCIIA), San Francisco, March 2012.
56. Mandala M, Houston E, Teodorski E, Grindle GG, Spomer ML, **Pearlman J**, Cooper RA, An Example Of Using End-User Feedback To Prioritize Research And Development Projects, Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference, Baltimore, MD, CD-ROM, June 28-July 3, 2012.
57. Worobey, L., Oyster, M, **Pearlman, J.L.**, Toro, M.L., Boninger, M.L., Increases in Wheelchair Repairs, Breakdowns, and Adverse Consequences for People With Traumatic Spinal Cord Injury. *Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference. Baltimore, MD, June 28-July 3, 2012.*
58. Duvall, J., Cooper, R., Sinagra, E., Stuckey, D., Brown, J., **Pearlman, J.**, **Development of Surface Roughness Standards for Pathways Used by Wheelchairs** presented at the Transportation Research Board annual meeting 2013.
59. Toro ML, Dausey D, **Pearlman J**, 4R Model for Lifelong Mobility: Increasing Wheelchair Lifecycle in Less Resourced Settings, International Seating Symposium, Nashville TN, March 5-9, 2013.
60. Toro ML, Garcia-Mendez Y, Dausey DJ, **Pearlman J**, Comparison of a Manual Wheelchair Designed and Produced in Mexico to a Wheelchair Produced in China Based on ISO Testing and Clinician and User Feedback, **Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference**, Seattle, WA, June 20-24, 2013.
61. Sinagra E, Duvall J, Brown J, Stuckey D, **Pearlman J**, Cooper RA, Development of a Sidewalk Roughness Measurement Tool, Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference, Seattle, WA, June 20-24, 2013.

62. Telson J, **Pearlman J**, Cooper RA, Ding D, An Initial Design Review of an Overhead Kitchen Robot Appliance: The Kitchenbot, Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference, Seattle, WA, June 20-24, 2013.
63. Medina H, Tull RG, **Pearlman J**, Goldberg MR, QoLT Engineering Education Outreach Facilitates Systems Analysis Study for Wheelchair Use in Mexico, Global Student Forum/World Engineering Education Forum, Cartagena, Colombia, September 21-27, 2013.
64. Mhatre, A., **Development of a business model canvas for E-Scale technology**. Presented at the 1st Gear Enterprise Creation Team Development Program by Pitt Innovation Institute. University of Pittsburgh. 2014.
65. Duvall, J., Sinagra, E., Stuckey, D., Cooper, R., **Pearlman, J. Proposed Surface Roughness Standard for Pathways Used by Wheelchairs** poster presented at the Transportation Research Board annual meeting 2014
66. Sinagra, E., Duvall, J., Cooper, R., Stuckey, D., Kortum, A., **Pearlman, J. Development and Characterization of Pathway Measurement Tool (PathMeT)** poster presented at the Transportation Research Board annual meeting 2014.
67. Toro M, **Pearlman J**, Oyster M, Boninger ML, Type and Frequency of Reported Wheelchair Repairs and Adverse Consequences Among People with Spinal Cord Injury, **Proceedings of the Rehabilitation Engineering and Assistive Technology Society of North America Conference**, June 11-15, 2014.
68. Mandala M, Goldberg M, **Pearlman J**, Cooper RA, Research Experience for Veterans and Teachers: Motivation, Program Description, Outcomes and Expectations for the Future, ASME IDETC/CIE, Buffalo NY, August 17-20, 2014.
69. Duvall, J., **Pearlman, J.**, Sinagra, E., **Development of Sidewalk Roughness Standards and Pathway Measurement Tool** poster presented at the Pro Walk/Pro Bike/Pro Place Conference Pittsburgh, September 8-11, 2014.
70. Toro M, Burrola Y, **Pearlman J**, Goldberg M, Augustine N, Profesionalizan do los servicios de sillas de ruedas en el mundo: Sociedad Internacional de Profesionales de Sillas de Ruedas. I Jornada Internacional de Actualizacion, evidencias y accesibilidad en sillas de ruedas. Universidad Rey Juan Carlos, Madrid, España, 2015.
71. Duvall, J., Sinagra, E., Cooper, R., **Pearlman, J. Characterizing Roughness of Pedestrian Pathways Using Vibration Data and Support Vector Machine Analysis** poster presented at the Transportation Research Board annual meeting 2015.
72. Duvall, J., **New methods to measure and design ADA compliant curb ramps and sidewalks**. Presented at Research and Education in Transportation Engineering forum at the University of Pittsburgh 2015
73. Duvall, J., Mhatre, A., **Design and Commercialization of a Throwing Chair**. Presented at the SHRS Travelling Circus Program at the Human Engineering Research Laboratories. 2015.

74. Mhatre, A., Duvall, J., **Pearlman, J.**, **Development of E-Scale for Veterans and People with Disabilities**. Poster presented at the 2015 VA Research Week Young Investigator Poster Contest. VA Pittsburgh Healthcare System 2015.
75. Mhatre, A., Duvall, J., **Pearlman, J.**, **Development of E-Scale for People with Disabilities**. Poster presented at the 11th Annual Rehabilitation Institute Research Day. University of Pittsburgh. 2015.
76. **Pearlman, J.**, Cooper, R., Goldberg, M., Schmeler, M., Professionalizing Wheelchair Service Worldwide: USAID's New Project, International Seating Symposium, Nashville, TN, February 26-28, 2015.
77. Altschuler, D., Schmeler, M., **Pearlman, J.**, Optional Equipment and Opening the Door to Liability, International Seating Symposium, Nashville, TN, February 26-28, 2015.
78. Worobey LA, Toro ML, Oyster ML, **Pearlman J**, Boninger ML, The Current State of Wheelchair Testing, Repairs, Consequences, and Maintenance, International Seating Symposium, Nashville, TN, February 26-28, 2015.
79. Toro ML, **Pearlman J**, Pedersen J, Shea M, Basic Wheelchair Maintenance Training for Manual and Power Wheelchair Users, International Seating Symposium, Nashville, TN, February 26-28, 2015.
80. Nickel E, Hansen A, **Pearlman J**, Goldish G, A Drive system to add standing mobility to a manual standing wheelchair, Rehabilitation Engineering and Assistive Technology Society of North America Conference, Denver CO, June 10-14, 2015.
81. Toro ML, **Pearlman J**, Development of a manual wheelchair and power wheelchair maintenance program, Rehabilitation Engineering and Assistive Technology Society of North America Conference, Denver CO, June 10-14, 2015.
82. **Pearlman, J.**, Goldberg, M., USAID Funded Activities in the Wheelchair Sector, International Society for Prosthetics and Orthotics World Congress 2015 (ISPO), Lyon, France, June 22-25, 2015.
83. Cooper, R., **Pearlman, J.**, Goldberg, M., Global Challenges in Assistive Technology-2, AAATE and GATE Meeting, Budapest, Hungary, September 9-12, 2015.
84. Kesselring, J.A., Fiedler, G. and **Pearlman, J.** 2016. Prosthetist's Assessment of Additive Manufacturing as an Alternative to conventional manufacturing techniques in P&O. Proceedings of the 42nd Annual AAOP Meeting and Scientific Symposium (Orlando, FL, 2016).
85. Goldberg, M., **Pearlman, J.**, Gartz, R., Miles, A., Schmeler, M., How to Develop a Contextually Appropriate, Reliable, and Valid Wheelchair Service Provision Assessment, 32nd International Seating Symposium (ISS), Vancouver, Canada, March 1-4, 2016.
86. Horvath, R., King, K., Eitel, S., **Pearlman, J.**, Group presentation on global health and rehabilitation, State of the Science Symposium, Bethesda, MD, June 3, 2016.
87. Cooper, R., **Pearlman, J.**, Goldberg, M., Mentorship for the Wheelchair Service Professionals, European Seating Symposium, Dublin, Ireland, June 12-15, 2016.

88. **Pearlman, J.**, 90 minute session on Wheelchair and Seating, FATO (African Federation of Orthopaedic Technicians), Lome, Togo, August 22-26, 2016.
89. **Pearlman, J.**, International Activities in the Wheelchair Sector, ISO Meeting, Sao Paulo, Brazil, September 10-15, 2016.
90. **Pearlman, J.**, ISWP Work Overview, TechCon 2016, Boston, MA, November 10-12, 2016.
91. **Pearlman, J.**, Strengthening the Global Wheelchair Sector through Evidence-Based Practice, University of Pittsburgh Doctoral Seminar, Pittsburgh, PA, February 1, 2017.
92. Goldberg, M., **Pearlman, J.**, Seymour, N., Rushton, P., Feng, K., Toro, M., Gatz, R., Wheelchair Service Provision: Education in Academia, WHO Invitation to Rehabilitation 2030: A call for Action, Geneva, Switzerland, February 6-7, 2017.
93. **Pearlman, J.**, Wheelchair Products and Service Standards, WHO's GATE Initiative, Yogyakarta, Indonesia, February 21-23, 2017.
94. **Pearlman, J.**, Strengthening the Global Wheelchair Sector, ISPRM, Buenos Aires, Argentina, April 30 - May 4, 2017.
95. **Pearlman, J.**, ISWP overview, ISPO World Congress, Cape Town, South Africa, May 8-11, 2017.
96. **Pearlman, J.**, Allen, M., Miles, A., Policy Adoption, ISPO World Congress, Cape Town, South Africa, May 8-11, 2017.
97. **Pearlman, J.**, Miles, A., Wheelchair Service Professional Credential, ISPO World Congress, Cape Town, South Africa, May 8-11, 2017.
98. Munera, S., Schmeler, M., Toro, M., **Pearlman, J.**, Professionalizing the Global Wheelchair Sector, First Cycle of Mobility and Sedestation, Medellin, Colombia, June 21-23, 2017.
99. Karimi, H., **Pearlman, J.**, Personalized Accessible Wayfinding and Navigation Services for Wheelchair Users, HCI International 2017 Conference, Vancouver, Canada, July 10-14, 2017.
100. **Pearlman, J.**, Goldberg, M., The Global Research, Innovation, and Education in Assistive Technology (GREAT) Summit, Geneva, Switzerland, August 3-4, 2017.
101. **Pearlman, J.**, ISWP overview, PAHO Research for Rehabilitation 2030, Sao Paulo, Brazil, November 9-10, 2017.
102. **Pearlman, J.**, Stakeholders' Workshop, Stakeholders' Meeting in conjunction with UCP/Wheels for Humanity, Kiev, Ukraine, November 13-17, 2017.
103. **Pearlman, J.**, Goldberg, M., ISWP Overview, USAID Strategic Planning Meeting, Bangalore, India, January 15-18, 2018.
104. **Pearlman, J.**, Goldberg, M., Wheelchair International Network (WIN), USAID Strategic Planning Meeting, Bangalore, India, January 15-18, 2018.

105. Goldberg, M., Miles, A., **Pearlman, J.**, Mentoring for Competency and Skills Development in Wheelchair Service, 34th International Seating Symposium (ISS), Vancouver, Canada, March 7-9, 2018.
106. Goldberg, M., Burrola, Y., **Pearlman, J.**, Development and Implementation of a Hybrid Wheelchair Workshop for Clinicians in International Setting: A Pilot Study, 34th International Seating Symposium (ISS), Vancouver, Canada, March 7-9, 2018.
107. Garcia, Y, Reyes, K., **Pearlman, J.**, Praptoraharjo, I., Wheelchair User's Voice Project - Pilot of Comparative Evaluation for UCP Wheels for Humanity, 34th International Seating Symposium (ISS), Vancouver, Canada, March 7-9, 2018.
108. Brienza, D., Hammond, D., **Pearlman, J.**, New Technology and Strategies for Pressure Injury Prevention, 34th International Seating Symposium (ISS), Vancouver, Canada, March 7-9, 2018.
109. Goldberg, M., Gowran, R., **Pearlman, J.**, Xavier, C, Garcia, F., Comanescu, C., Ungureanu, C., A Global Perspective on Wheelchair Provision, 34th International Seating Symposium (ISS), Vancouver, Canada, March 7-9, 2018.
110. **Pearlman, J.**, Mhatre, A., Caster Testing Standards, 19th ISO Technical Committee 173, Nairobi, Kenya, May 5-10, 2018.
111. **Pearlman, J.**, ISWP Overview: Change the Game, OTWorld 2018 International Trade Show and World Congress, Leipzig, Germany, May 15-18, 2018.
112. **Pearlman, J.**, Mhatre, A., Reproducing Field Failures with Wheelchair Casters in the Laboratory, Applied Reliability and Durability Conference (ARDC), Portland, OR, June 26-28, 2018.
113. **Pearlman, J.**, Kirby, L. Workshop on Wheelchair Skills and Maintenance. 12th International Society of Physical and Rehabilitation Medicine World Congress 2018 (ISPRM), Paris, France, July 8-12, 2018.

4) Other Publications

Popular Media

1. Karmarker A., **Pearlman J.**, Zipfel E., India: Making Mobility Real, PN, pp. 12-16, Vol. 60, No. 8, August 2006
2. **Pearlman J.**, Pitt and India join forces to build wheelchair, The Pitt News, pp. 2, Vol. 101, Issue 125, March 17, 2011
3. **Pearlman, J.**, Interviewed on Perils For Pedestrian (www.pedestrians.org), Episode 177 (min 14:35), [Link](#)
4. **Pearlman J.**, Walsh Wants Ramps Solved "Yesterday", The Boston Courant, pp. 9-14, Vol. XIX, No. 33, May 23-29, 2014
5. **Pearlman J.**, A Path to Success, University of Pittsburgh Innovation Institute, pp. 14-15, 2014 Annual Report
6. **Pearlman J.**, Pitt Heads Group to Professionalize Wheelchair Service, University Times, Vol. 47, Issue 23, July 23, 2015

7. **Pearlman, J.** These Scientists Are Building Fitness Trackers that Work With People with Disabilities. FastCompany CoExist, March 2016. [Link](#)
8. **Pearlman, J.** Pittsburgh researchers develop scale to help people with mobility issues. Pittsburgh Post Gazette, May 11th, 2016. [Link](#)
9. **Pearlman, J., Duvall, J.** (2016) Safety and Comfort for Wheelchair Users, highlighting the E17 standard on sidewalk roughness standard. In ASTM 2016 Annual Report, pp. 15
10. **Duvall, J.** (related to E-Scale Project) Adam Savage's Maker Tour: Human Engineering Research Labs. Adam Savage's TESTED, April 10th, 2017. [Link](#)
11. **Pearlman, J.** Highlights of E-Scale and other AT design project, NewMobility, May 2nd, 2017 [Link](#)
12. **Pearlman, J., Brienza, D, Karg, T.** Overview of standards RERC, HME News, November 2017, [link](#)
13. **Eric Sinagra** (related to pathVu) Geekwire highlight, 2018 [Link](#)
14. **Pearlman, J.** University Times, Related to Conflict of Interest Policy Changes, 2018 [Link](#)

PROFESSIONAL ACTIVITIES

TEACHING:

Courses Taught:

1) Course – HRS 1706/2706 (4.0 credits): Rehab Engineering 1

Type of Students – Graduate (SHRS, Bio-E) & undergraduate (Rehab Science)

Number of lectures – 14

Contact Hours – 45

Fall Term	2011	2012	2013	2014	2015	2016	2017
# of Students	7	15	9	13	9	10	15

2) Course – HRS 1718/2718 (3.0 credits): Rehab Engineering 2

Type of Students – Graduate (SHRS, Bio-E) & undergraduate (Rehab Science)

Number of lectures – 14

Contact Hours – 45

Fall Term	2012	2013	2014	2015	2016	2017	2018
# of Students	7	15	9	13	9	9	14

3) Course - HRS 3003 (2.0 credits): Core Concepts in Disability & Rehabilitation

Type of Students – PhD Students in SHRS

Number of lectures – 7

Contact Hours – 21

Fall Term	2017	2018
# of Students	8	7

4) Course - HRS 3005 (2.0 credits): Core Concepts in Disability & Rehabilitation

Type of Students – PhD Students in SHRS

Number of lectures – 7

Contact Hours – 21

Spring Term	2017	2018
# of Students	8	7

5) Course- HRS 2709 (2.0 credits): Wheelchair Design

Type of Students – Graduate (SHRS, Bio-E) & undergraduate (Rehab Science)

Number of lectures – 14

Contact Hours – 20

Spring Term	2012
# of Students	3

OTHER TEACHING ACTIVITY:

Service on Committees

Master's Committees

1. Brad Dicianno, MD (Co-advisor; MS, Bioengineering, U-Pitt), 2008
 - Hired as Associate Medical Director, Human Engineering Research Laboratories
2. Eun-kyong Hong (Co-advisor; MS Rehab Science & Technology, U-Pitt), 2009
 - Enrolled in PhD Program at U-Pitt
3. Alexandra Jefferds (Primary Advisor, Rehab Science & Technology, U-Pitt), MS, 2009
 - Hired as Rehab Engineer at Washington, DC Health Clinic in 2012
4. Ben Salatin (Co-advisor, Rehab Science & Technology, U-Pitt), MS, 2011
 - Hired as Rehab Engineer at the Richmond VAMC in 2011
5. Yasmin Garcia (Primary Advisor, Rehab Science & Technology, U-Pitt), MS, 2012
 - Hired as Medical Faculty at Universidad Autonoma Del Estado De Mexico in 2012
 - Hired as Rehab Engineer at Children's Rehabilitation Institute of TeletonUSA in 2015
 - Hired as Research Project Manager, UCP Wheels for Humanity, 2017
6. Nadwa Onwi (Co-advisor, Rehab Science & Technology, U-Pitt), MS 2013
7. Josh Telson (Co-advisor, Rehab Science & Technology, U-Pitt), MS 2013
 - Hired as design engineer at 4-Moms
8. Jonathan Duvall (Primary Advisor, Rehab Science & Technology, U-Pitt), MS 2013
 - *Current Phd Student*

9. Eric Sinagra (Primary Advisor, Rehab Science & Technology, U-Pitt), MS 2014
 - Started www.pathvu.com
10. Stephanie Vasquez (Primary Advisory, Rehab Science, U-Pitt), MS Expected 2020

PhD Committees

1. HsinYi Liu (Co-advisor; MS, Rehab Science & Technology, U-Pitt), PhD, 2012
 - Enrolled in PhD Program at U-Pitt
2. Hong-wu Wang (Co-advisor, Rehab Science & Technology, U-Pitt), PhD, 2012
 - Hired as Post-Doc student at U-Pitt in 2012
3. Maria Toro (Primary Advisor, Rehab Science & Technology, U-Pitt), PhD Completed 2015
 - Faculty at Universidad CES: www.ces.edu.co
4. Mahender Mandala (Primary Advisor, Rehab Science & Technology, U-Pitt), PhD Completed 2016
 - Faculty in BioEngineering Department, University of Pittsburgh
5. Jonathan Duvall (Primary Advisor, Rehab Science & Technology, U-Pitt), PhD 2018
 - Post-Doctoral Student, Human Engineering Research Labs
6. Anand Mhatre (Primary Advisor, Rehab Science & Technology, U-Pitt), PhD 2018
7. Joe Ott (Primary Advisor, Rehab Science & Technology, U-Pitt), Phd Expected 2019

Supervision of Post-Doctoral Trainees

1. Padmaja Kankipati (2012 - 2014)
2. Anand Mhatre (2018 - Present)

Supervision of Undergraduates

1. Jaideep Karnawat (IIT-Kanpur) Summer 2004. Testing of low-cost power wheelchairs.
2. Neil Stegal (CMU) Summer 2005. Design of a low-cost power wheelchair for India.
3. Amy McNeal (Pitt) Summer 2006. Mechanical testing of low-carbon steel.
4. Mary Wu (Johns Hopkins) Summer 2007. Development of a cable steering system.
5. Pitt Bio-E Student Team (2008/2009) Development of a upper extremity prosthesis.
6. Pitt Bio-E Student Team (2008/2009) Development of an advanced caster system.
7. Viviana Valenzuela De La Vega (Auburn Univ.) Summer 2009. Backrest scan evaluation.
8. Miriam Zisook (RISD) Summer 2009. Development of a novel finger splint.
9. Jonathan Duvall (Pitt), Summer 2010. Development of an active anti-tip system for wheelchairs.
10. Phil Perilstein (Bucknell), Summer 2010. FDA evaluation of wheelchair failures.
11. Robin Bratcher (UMBC), Summer 2010. Wheelchair Design project
12. Dan Hefley (Pitt, with Ashli Molinero), Summer 2010. Social perceptions of disability on twitter.
13. Diana Stuckey (Pitt) Spring-Fall 2012. Development of pathway roughness standard
14. Ian McIntyre (Pitt) 2012-2014. Development of Pathway Measurement Tool
 - o Co-founder of Pathway Accessibility Solutions, Inc.
15. Tianyang Chen (Pitt) 2012-2014. Development of Pathway Measurement Tool
 - o Co-founder of Pathway Accessibility Solutions, Inc.
16. Logan Cooper (CalPoly) Summer 2012. Development of manual wheelchair active anti-tip.
17. Samuel Bucior (Pitt), Summer 2013. Wheelchair shop project with Teleton Mexico.
18. Karl Olsheski (Pitt) Summer 2013. Development of low-cost bed scale.
19. Chika Eke (University of Portland), Summer 2014. Impact of wheelchair provision in Indonesia.
 - o Graduate Student at MIT Media Lab
20. Monique Tillis (Southern University and A & M) Summer 2014. Development of bedscale App.
21. Zack Merrill (Pitt), Summer 2014. Wheelchair design

22. Jeff Deeley (Pitt) Fall 2014, Summer 2015. Development of Pathlock, Development of bedscale
23. Sam Waters (Pitt) Spring-Summer 2015. Development of curb-ramp measurement device.
24. Daniel Ferris (Pitt) Spring 2015. Development of low-cost bed scale.
25. Katee Coleman (Pitt) Summer 2015. Development of multi-user E-Scale app.
26. Madhur Maholtra (Pitt) Summer 2015. Interface design for PeerAGE and E-Scale
27. Olivia Pascazi (Pitt) Summer 2015. Advocacy projects for ISWP
28. Abhir Yavalkar (Pitt) Summer 2015. Business and Marketing projects for ISWP
29. Ernest Liu (NYU) Summer 2015. Development of a Hybrid Version of the WHO Training Materials
30. Marisa Bellemare (Robert Morris) Summer 2015. Survey of disaster relief methods to support wheelchair users.
31. Erin Higgins (Pitt) 2016-2017 Support ISWP Website Design
32. London Lee (Pitt) 2017-2018 Support wheelchair testing activities
33. Marcus Menachem (Pitt) 2017-2018 Support rolling resistance project
34. Sam Waters (Pitt) 2017-2018, Support curbmet & bedscale projects
35. Stephanie Lachell (Pitt) 2017-2018. Support wheelchair testing activities
36. Pavitra Velan (Pitt) 2018. Support Curbmet testing system

RESEARCH:**Current Grant Support:**

Grant Number	Grant Title	Role (Effort)	Years Inclusive	Source \$ Amount
NIDRR DRRP: H113A120004	Multi-site randomized clinical trial evaluating the impact of wheelchair skills and maintenance training on the quality of life of wheelchair users.	Co-PI (20%)	2012-2019	2,500,000
NIDILRR DRRP: H133A130025	Self-Management Assistance through Technology - Virtual Coaches for Wheelchair Users	Co-I (5%)	2013-2019	2,372,456
PennDOT: 4400011482 WO 015	Development of a curb-ramp design and inspection tool.	PI (10%)	2017-2019	175,000
NIDILRR: 90REGE0001	Rehabilitation Engineering Research Center on Improving Health and Function Through Use of Performance Standards in Wheelchair Selection	Co-PI (40%)	2017-2022	4,900,000
USAID: SPANS - 037	Support for ISWP Research, Training and Development Initiatives	PI (20%)	2017-2018	349,808
USAID/JSI: APC-GM-0068	Support for ISWP Research, Training and Development Initiatives	PI (20%)	2018	567,165
Paralyzed Veterans of America Foundation	Development of a Skills Assessment for Wheelchair Service Provision	Co-I (5%)	2018-2019	50,000
NSF Research Experience for Teachers: 1609566	Mentor STEM high school teachers on engineering design and guide the development of novel curricular modules for their schools.	Co-PI (5%)	2016-2019	599,931
UCP/Google	International Wheelchair Outcomes	PI (10%)	2017-2019	100,779

Prior Grant Support:

Grant #	Grant Title	Role (Effort)	Years Inclusive	Source \$ Amount
NIH SBIR: HD058376 01A1	Development of a Single Motor Propelled Wheelchair.	PI (20%)	2008-2010	102,799
VA Career Development Award: B6673-M	Salary support to develop & test vibration data-logging device	PI & Mentee (80%)	2009-2011	135,000
VACPPF	Development of a vibration datalogger system	PI (40%)	2009-2011	50,000
NIDILRR DRRP Subcontract: H133A090020	Technology Access in Resource-Limited Environments	PI (10%)	2009-2011	80,000
NIH SBIR Subcontract: HD060335 01A1	Development of an anti-bias caster system to help improve outdoor mobility of wheelchair users.	PI (20%)	2010-2011	109,541
NCIIA Course and Program Grant (TIPeD)	Program to increase engagement of grad & undergrad engineering & business students to innovate AT.	PI (5%)	2010-2013	25,950
Access Board	Development of pedestrian pathway roughness standards for safe wheelchair use in public spaces.	PI (40%)	2010-2013	300,000
NIH SBIR Subcontract	Evaluation of a novel drive-train system for hand-cycles.	PI (10%)	2010-2011	40,000
NIH SBIR Subcontract: HD060335	Development of a lightweight & adjustable backrest to improve the comfort and function for manual wheelchair users.	Co-I (20%)	2010-2012	963,380
NIH SBIR Subcontract: HD058376	Development of a single motor propelled wheelchair.	PI (40%)	2011-2013	412,947
Benter Foundation	Development and implementation of a wheelchair services program in Mexico.	PI (20%)	2011	42,000
Benter Foundation	Comparative evaluation of activity and participation of wheelchair users in Mexico.	PI (20%)	2011-2012	40,000
NIH R03: EB014245	Development of a single motor propelled wheelchair for India.	PI (40%)	2012-2014	215,888
ICPI Research Foundation	Development of a pathway measurement tool for pathway surface roughness.	PI (10%)	2012-2013	70,000

NIH SBIR Subcontract: HD056705	Development of a caster biasing system for manual wheelchairs.	PI (40%)	2012-2014	393,624
Pitt Innovation in Education Award	Course development for undergraduates to participate in AT design projects.	PI (5%)	2012-2013	25,000
NSF RET: EEC1161880	Experiential learning of teachers in assistive technology product innovation.	PI (10%)	2012-2015	583,653
Benter Foundation	Launch of a Wheelchair Service Provision Service in Mexico.	PI (10%)	2012-2014	52,000
American Wheelchair Mission	Secondary Analysis of Patient Data from Teleton Network	PI (5%)	2013	5,000
NSF: EEC1161880	Immersion of Veterans in the NSF Research Experience for Teachers program	PI (5%)	2013-2015	71,653
NClIA E-Teams: 10948-13	Commercialization of the Pathway Measurement Tool	PI (10%)	2013-2015	25,000
USAID SPANS subgrant	Design, oversight and data analysis of a longitudinal controlled outcomes study of service provision in Indonesia.	PI (10%)	2013-2014	45,000
NSF ATE: 1406757	Advanced Manufacturing Training for People with Disabilities	Co-PI (5%)	2014-2018	899,863
USAID/JSI: APC-GM-0068	Research & Development associated with the International Society of Wheelchair Professionals	PI (40%)	2014-2018	2,498,282
PVA Research Foundation	Evaluation of a wayfinding app for wheelchair users	Co-PI (10%)	2014-2017	150,000
NIDILRR SBIR Subcontract: 90BI0002	Support development of wayfinding app for wheelchair users	PI (10%)	2014-2016	100,000
Innovation Works TCC Grant	Integration of wifi and cloud-based database into bed-scale device.	PI (5%)	2015	25,000
VA CPPF	Development of the HealthHUB integrating a bed-scale and activity monitor.	PI (5%)	2015	25,000
NSF: DUE 1547954	Customer interviews for PeerAGE, an online peer-assessment tool.	Co-PI (5%)	2015	50,000
NSF I-Corps: IIP 1619990	Customer interviews to determine the commercial potential of E-Scale.	PI (20%)	2016	50,000
PVA Education Foundation: 804	Development of the Wheelchair Service Professional Credential	Co-PI (5%)	2016-2017	50,000

ACL: 90DP0025-01	Collaboration on Mobility Training	Co-PI (20%)	2012-2018	360,848
VA: 244-16-C-0350	Clinical Limits of Use in Wheeled Mobility	PI (20%)	2016-2017	89,498
PVA Research Foundation: 3101	Pilot study to develop and test the E-Scale with wheelchair users.	PI (25%)	2016-2018	149,503
NIH: 5UL1TR001857	Evaluation of the E-Scale to determine if it can monitor motion.	PI (10%)	2017	25,000

2) Seminars and Invited Lectureships

Event: Launch of the Global Business Institute at Pitt's Katz School of Business, September 5, 2014.
Title of Talk: Transformative Experiences through Global Service Learning

Event: Symposium of Medical Bioengineering, hosted by Universidad Autonoma del Estado de Mexico.
August 21, 2014. Title of Talk: Professionalization of Wheelchair Services Worldwide.

Event: Stakeholder Meeting about the Wheelchair Sector with the Indonesian Ministry of Health,
Jakarta, Indonesia. Role: Speaker about global product and service standards for wheelchairs.
October 24-26, 2015.

Event: 3rd Annual Oakland Transportation Fair. Role: one of three panelists discussing transportation
issues focused on accessibility. September 2015

Event: State of the Science on Global Rehabilitation, Walter Reed Medical Center. Role: One of the
invited speakers to highlight the International Society of Wheelchair Professionals. June 2016

Event: State of the Science on Global Rehabilitation, Walter Reed Medical Center. Role: One of the
invited speakers to highlight the International Society of Wheelchair Professionals. June 2016

Event: Weapons Removal and Abatement Roundtable Discussion, US Department of State. Role:
One of the representatives from a victims assistance stakeholder group (ISWP) providing information
about wheelchair-related programs. July 2016

Event: Colombian Seating Symposium. Role: Led part of WHO Stakeholder meetings related to
building wheelchair capacity in Colombia. May 2017

Event: US Access Board Webinar Series. Role: Lead presenter of sidewalk roughness research.
August 2017

Event: Ukrainian Stakeholder meeting of NATO, WHO, USAID, and Ukrainian Ministry of Social
Welfare and Disabled People's Organizations. Role: Speaker on Standards related to Wheelchair
Provision. November 2017

Event: WHO Regional Meeting in Sao Paulo, Brazil about Research 2030 Goals. Role: Speaker on
Perspective on Wheelchair Related Research in Less Resourced Settings. November 2017

Event: Health Systems Engineering Certificate Seminar. Role: Speaker on AT Technology Applications in Rehab. October 2017

Event: Center for Sustainable Infrastructure (Pitt) Annual Research Symposium. Role: Speaker on Curb-ramp inspection system and related topics for pedestrian access. March 2018.

3) Other Research Activities

JOURNAL & GRANT REVIEWER

- Assistive Technology (editorial board member)
- Journal of Orthopaedic Research
- Journal of Rehabilitation Research and Development
- Prosthetics and Orthotics International
- Disability and Rehabilitation: Assistive Technology
- Archives of Physical Medicine & Rehabilitation
- Veterans Administration (Grants)
- Paralyzed Veterans of America (Grant)
- VentureWell (Grant)
- Pitt's Center for Medical Innovation (Grant)
- Coulter Program (Grant)
- Paralyzed Veterans of America (Grant)
- USAID Leahy War Victims Fund (Grant)

Standards

Pearlman, J. (2016) Standard Practice for Computing Wheelchair Pathway Roughness Index as Related to Comfort, Passability, and Whole Body Vibrations from Longitudinal Profile Measurements, ASTM E3028

Patents

1. Full Patent Awarded: Portable Active Compact Compression Sleeve (PACCS) (6/2008) Application #: **20080319359** (privately funded)
2. Full Patent Awarded: User adjustable wheelchair backrest mounting hardware US8376463 B2 (*funded with NIH SBIR*)
3. Full Patent Application: Steering Mechanism for a Personal Vehicle. (2/2011) Application #: 13/022,838 (*funded by NIH SBIR*)
4. Full Patent Application: Novel splint for the treatment of contractures of the proximal interphalangeal joint of the hand (2/2011) Application #: US 2011/0245747 A1
5. Full Patent Awarded: Hybrid Power Operated Vehicle—a personal mobility device for people with disabilities (2/8/2011) Patent #: 7,882,909 B2 (*funded by NIH SBIR*)
6. Full Patent Awarded: Improved Caster and System for Mobile Device. (3/2013) Application #: 12/956,666. (*funded by NIH SBIR*)
7. Full Patent Application: Active Stability Devices And Systems for Mobile Devices, Application #: US20130197732A1
8. Full Patent Application: Seating Function Monitoring & Coaching System (1/15) Application #: US20150209207 A1
9. Full Patent Application: Pathway Measurement Devices, Systems & Methods. Patent Application #: 14/597,721 (1/15)
10. Provisional Patent Application: Mobility Enhancement Wheelchair (7/15)
11. Full Patent Application & PCT: Furniture-integrated Weight Measurement System and Load Cell for Same Application#: WO2016118546A1 (1/16)

SERVICE:**1) University**

Role/Title	Organization	Years
Department Chair	Department of Rehabilitation Science & Technology, University of Pittsburgh	2018-Present
Committee Member	Tech Transfer Committee, Innovation Institute, University of Pittsburgh	2015-2018
Evaluator	Sell Merit Scholarship Award, SHRS	2017
Committee Member	Space Committee, School of Rehab Science & Technology, University of Pittsburgh	2014-2017
Promotion Advisory to Goeran Fiedler (mid-tenure review) and Chris Hovorca	Department of Rehab Science & Technology	2017
Associate Director of Engineering	Human Engineering Research Labs, VA Pittsburgh Healthcare System	2009-2016
Associate Director of Product Innovation and Technology Translation	Human Engineering Research Labs, VA Pittsburgh Healthcare System	2016-Present

2) Community Activities

Role/Title	Organization	Years
Board Member	Community Living & Support Services of Pittsburgh	2017-Present