

## Curriculum Vitae

**Rosemarie Cooper**

### PERSONAL DATA

Address: Department of Rehabilitation Science and Technology/  
Human Engineering Research Laboratories  
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### EDUCATION AND TRAINING

#### Undergraduate

1992/94	Calif. State University, Sacramento	BA, International Business
1995/96	Community College of Allegheny County	Pre-reqs: MPT-Program

#### Graduate

1996/98	University of Pittsburgh	Master Physical Therapy (MPT)
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### CURRENT POSITIONS

01/2021-present	Human Engineering Research Laboratories	Associate Director for Stakeholder Engagement
08/2018-present	Human Engineering Research Laboratories (HERL)	Affiliated Faculty
08/2005-12/2020	University of Pittsburgh Center for Assistive Technology (CAT), Pittsburgh, Pennsylvania	Director
08/2005-12/2020	Center for Assistive Technology UPMC Health System	Director

08/2005-present	Department of Rehabilitation Science & Technology School of Health and Rehabilitation Sciences University of Pittsburgh, Pennsylvania	Associate Professor
12/2000-present	US Department of Veterans Affairs Veterans' Health Administration VA Pittsburgh Health Care System	Research Assistant (WOC)
12/ 2000- 12/2020	Center for Assistive Technology UPMC Health System	Physical Therapist, Seating/Mobility Evaluation Specialist
12/ 2000-08/2005	Department of Rehabilitation Science & Technology School of Health and Rehabilitation Sciences University of Pittsburgh, Pennsylvania	Clinical Instructor

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#### PREVIOUS POSITIONS

2002/2005	Human Engineering Research Laboratories (HERL)	Clinical Coordinator and Investigator
1998/2000	UPMC Rehabilitation Hospital	Physical Therapist
Summer 1995	University Pittsburgh Medical Center, Division of Physical Medicine & Rehab	Research Associate
1989- 1994	Wells Fargo Bank, Sacramento, CA	Customer Service Representative and Merchant Teller
1984-1989	Wells Fargo Bank San Luis Obispo, CA	Customer Service Representative
1982- 1984	Howard Johnson's Motor Lodge San Luis Obispo, CA	Front Office Clerk

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#### OTHER POSITIONS

Summer 2009-2015	National Science Foundation Quality of Life Technology Engineering Research Center, Carnegie Mellon University	Clinical Co- Investigator
Summer 1996	Harmarville Rehabilitation Center Transitional Rehab Unit	Volunteer
Summer 1996	Spina Bifida Association of Western PA: Children's Camp	Volunteer

Spring of each National Wheelchair Athletic Association Paralympic Training Executive  
from 1989-1994 Camp Committee  
Member

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### **CERTIFICATION AND LICENSURE**

September 23, 1998-present Physical Therapy License Number:  
# PT011620L (Initial Date)

June 27, 2001-present RESNA Certified Assistive Technology Professional (ATP),  
ID# ATP 1028

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### **MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

1998 - American Physical Therapist Association  
2000- Rehabilitation Engineering Society of Northern America (RESNA)

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### **HONORS**

July 2019 Distinguished Self-less Service Medal from the Human Engineering Research Laboratories 25<sup>th</sup> Anniversary.

Sept 2016 Health Care Hero Award from the Pittsburgh Business Times.

March 2007 United States Marine Corps: Certificate of Appreciation by the Marine for Life Program for dedicated Assistance to our Corps and Country “Semper Fidelis”.

Dec 2006 University of Pittsburgh, Department of Rehabilitation Science and Technology Distinguished Teaching Award.

Nov 2006 President’s Award presented by Keystone Paralyzed Veterans of America (KPVA) in recognition of dedication, devoted service, and true compassion in assisting spinal cord injured veterans in the adaptation and Rehabilitation of their new lifestyle.

Sept 2006 Certification of Appreciation Award from Walter Reed Army Medical Center in recognition for the contribution and the lecture “Locus of Control-A client Centered Approach to AT Service Delivery”.

May 2005 Special recognition award from Walter Reed Army Medical Center for her contributions to the rehabilitation of war-injured soldiers at WRAMC.

Jan 1993 Member of Beta Gamma Sigma, Business academic honor society.

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## PUBLICATIONS

### PEER-REVIEWED JOURNAL PUBLICATIONS

67. Duvall JA, Satpute SA, **Cooper RM**, Cooper RA, A review of adaptive sport opportunities for power wheelchair users, **Disability and Rehabilitation: Assistive Technology**, Epub ahead of print, 2020.
66. Daveler B, Gebrosky B, Eckstein I, **Cooper RM**, Grindle GG, Cooper RA, Air-Powered Shopping Carts in Grocery Stores: A Pilot Study, **Disability and Rehabilitation: Assistive Technology**, Epub ahead of print, 2020.
65. Gebrosky B, Bridge A, O'Donnell S, Grindle GG, **Cooper RM**, Cooper RA, Comparing the Performance of Ultralight Folding Manual Wheelchairs Using Standardized Tests, **Disability and Rehabilitation: Assistive Technology**, Epub ahead of print, 2020.
64. Greenhalgh M, Blaauw E, Deepak N, **Cooper RM**, Stlaurent M, Bendixen R, Grindle GG, Koontz AM, Cooper RA, Usability and Task Load Comparison Between a Robotic Assisted Transfer Device and a Mechanical Floor Lift During Caregiver Assisted Transfers on a Care Recipient, **Disability and Rehabilitation: Assistive Technology**, Epub ahead of print, 2020.
63. Blaauw ER, Greenhalgh M, Vegter R, Bass S, Kulich H, Grindle GG, **Cooper RM**, Koontz AM, Cooper RA, Assessment of Muscle activation of Caregivers Performing Dependent Transfers with a Novel Robotic Assisted Transfer Device Compared to the Hoyer Advance, **American Journal of Physical Medicine and Rehabilitation**, Epub ahead of print, 2020.
62. Greenhalgh M, Rigot S, Eckstein S, Joseph J, **Cooper RM**, Cooper RA, A Consumer Assessment from Women Who Use Wheelchairs, **Journal of Military, Veteran and Family Health**, In press, 2020.
61. Candiotti JL, Kamaraj DC, Daveler B, Chung C, Grindle GG, **Cooper RM**, Cooper RA, Usability Evaluation of a novel robotic wheelchair for indoor and outdoor environments, **Archives of Physical Medicine and Rehabilitation**, pp. 627-637, Vol. 100, No. 4, April 2019.
60. Gebrosky B, Grindle GG, **Cooper R**, Cooper RA, Comparison of Carbon Fiber and Aluminum Materials in the Construction of Ultralight Wheelchairs, **Disability and Rehabilitation: Assistive Technology**, pp. 432-441, Vol. 15, No. 4, 2020.
59. Cooper RA, Tuakli-Wosornu YA, Henderson GV, Quinby E, Dicianno BE, Tsang K, Ding D, **Cooper R**, Crytzer TM, Koontz AM, Rice I, Bleakney AW, Engineering and Technology in Wheelchair Sport, **Physical Medicine & Rehabilitation Clinics of North America**, Vol. 29, pp. 347-369, 2018.
58. Hong EK, Pearlman J, Dicianno BE, **Cooper RM**, Cooper RA, Comfort and Stability of Wheelchair Backrests According to the TAWC (Tool for Assessing Wheelchair dis Comfort), **Disability and Rehabilitation: Assistive Technology**, pp. 223-227, Vol. 11, No. 3, 2016.
57. Dicianno BE, Lieberman J, Schmeler MR, Souza AESP, **Cooper RM**, Lange M, Liu H, Jan Y, Rehabilitation Engineering and Assistive Technology Society of North America's Position on the

Application of Tilt, Recline, and Elevating Legrests for Wheelchairs Literature Update, **Assistive Technology**, pp. 193-198, Vol. 27, No. 3, Fall 2015

56.Liu HS, **Cooper R**, Kelleher A, Cooper RA, An Interview Study for Developing A User Guide for Powered Seating Function Usage, *Disability & Rehabilitation - Assistive Technology*, Vol. 9, No. 6, pp. 499-512, 2014.

55.Kumar A, Schmeler M, Holms MH, Karmarkar A, Collins D, **Cooper R**, Cooper RA, Test-Retest Reliability of the Functional Mobility Assessment (FMA): A Pilot Study, *Disability and Rehabilitation: Assistive Technology*, Vol. 8, No. 3, pp. 213-219, 2013.

54.Gebrosky B, Pearlman J, Kelleher A, **Cooper RM**, Cooper RA, Evaluation of Lightweight Wheelchairs using ANSI/RESNA Testing Standards, *Journal of Rehabilitation Research and Development*, Vol. 50, No. 10, pp. 1373-1390, 2013.

53.Souza A, Pearlman J, **Cooper RM**, Kelleher A, Gebrosky B, Cooper RA, Evaluation of scooters using ANSI/RESNA standards, *Journal of Rehabilitation Research and Development*, Vol. 50, No. 7, pp. 1017-1034, 2013.

52.Lewis AN, Cooper RA, Seelman KD, **Cooper R**, Schein RM, Future Considerations for AT in Rehabilitation: Where Do We Go from Here?, *Rehabilitation Research, Policy, and Education*, Vol. 26, No. 1, pp. 19-32, 2012.

51.Liu HY, Grindle GG, Chuang FC, Kelleher A, **Cooper R**, Sieworek D, Smailigic A, Cooper RA, User preferences for indicator and feedback modalities: A preliminary survey study for developing a coaching system to facilitate wheelchair power seat function usage, *IEEE Pervasive Computing: Mobile and Ubiquitous Systems*, Vol. 11, No. 3, pp. 54-63 , 2012.

50.Kumar A, Karmarkar A, Collins DM, Souza A, Oyster M, **Cooper RM**, Cooper RA, A Pilot Study for Quantifying Driving Characteristics During Power Wheelchair Soccer, **Journal of Rehabilitation Research and Development**, pp. 75-82, Vol. 49, No. 1, 2012.

49.Liu H, Grindle GG, Chuang FC, Kelleher AR, **Cooper RM**, Sieworek D, Smailagic A, Cooper RA, A Survey of Feedback Modalities for Wheelchair Power Seat Functions, **IEEE Pervasive Computing**, pp. 54-62, Vol. 11, No. 3, July-Sept 2012.

48.Cooper RA, Grindle GG, Vazquez JJ, Xu J, Wang H, Candiotti J, Salatin B, Houston E, Kelleher AR, **Cooper RM**, Teodorski E, Beach S, Personal Mobility and Manipulation Appliance - Design, Development and Initial Testing, **Proceedings of the IEEE**, pp. 2505-2511, Vol. 100, No. 8, August 2012.

47.Karmarkar A, Dicianno BE, Graham JE, **Cooper RM**, Kelleher AR, Cooper RA, Factors Associated with Provision of Wheelchairs in Older Adults, **Assistive Technology**, pp. 155-167, Vol. 24, No. 3, 2012.

46.Laferrier JZ, Rice I, Pearlman J, Sporner M, **Cooper RM**, Liu H, Cooper RA, Technology to Improve Sports Performance in Wheelchair Sports, **Sports Technology**, pp. 4-19, vol. 5, no. 1-2, 2012.

- 45.Karmarkar AM, Cooper RA, Wang H, Kelleher A, **Cooper R**, Analyzing Wheelchair-Mobility Patterns of Community Dwelling Older Adults, *Journal of Rehabilitation Research and Development*, Vol. 48, No. 9, pp. 1077-1086, 2011
- 44.Cooper RA, Ferretti E, Oyster M, Kelleher A, **Cooper R**, The Relationship Between Wheelchair Mobility Patterns and Community Participation Among Individuals with Spinal Cord Injury, *Assistive Technology*, Vol. 23, No. 3, pp. 177-183, 2011.
- 43.Karmarkar AK, Dicianno BE, **Cooper R**, Collins DM, Matthews JT, Koontz AM, Teodorski EE, Cooper RA, Demographic Profile of Older Adults Using Wheeled Mobility Devices, *Journal of Aging Research*, Vol. 2011, Article ID 560358, 2011
- 42.Cooper RA, Koontz AM, Ding D, Kelleher A, Rice I, **Cooper R**, Manual Wheeled Mobility – Current and Future Developments from the Human Engineering Research Laboratories, *Disability and Rehabilitation*, Vol. 32, No. 26, pp. 2210-2221, 2010.
- 41.Liu H-Y, Cooper RA, **Cooper R**, Smailagic A, Sieworek D, Ding D, Chuang F-C, Seating Virtual Coach: A Smart Reminder for Power Seat Function Usage, *Technology & Disability*, Vol. 22, No. 1-2, pp. 53-60, 2010.
- 40.Liu H, Pearlman J, **Cooper R**, Hong E, Wang H, Salatin B, Cooper RA, Evaluation of Aluminum Ultralight Rigid Wheelchairs Using ANSI/RESNA Standards and Compared with Other Ultralight Wheelchairs, *Journal of Rehabilitation Research and Development*, Vol. 47, No. 5, pp. 441-446, 2010.
- 39.Souza A, Kelleher A, **Cooper R**, Cooper RA, Iezzoni LI, Collins DM, Multiple Sclerosis and Mobility-Related Assistive Technology: A Systematic Review of the Literature, *Journal of Rehabilitation Research and Development*, Vol. 47, No. 3, pp. 213-224, 2010.
- 38.Wang H, Liu H-Y, Pearlman J, **Cooper R**, Jefferds A, Connor S, Cooper RA, Relationship between Wheelchair Durability and Wheelchair Type and Test Years, *Disability and Rehabilitation: Assistive Technology*, Vol. 5, No. 5, pp. 318-322, 2010.
- 37.Ding D, Liu HY, **Cooper RM**, Cooper RA, Smailagic A, Siewiorek D, Virtual Coach Technology for Supporting Self-Care, *PM&R Clinics of North America*, Vol. 21, No. 1, pp., 2010.
- 36.Cooper RA, **Cooper R**, Quality of Life Technology for People with Spinal Cord Injuries, *PM&R Clinics of North America*, Vol. 21, No. 1, pp. 1-13, 2010.
- 35.Sporner M, Grindle GG, Kelleher AR, Teodorski E, **Cooper RM**, Cooper RA, Quantification of Activity During Wheelchair Basketball and Rugby at the National Veterans Wheelchair Games: A Pilot Study, *Prosthetics and Orthotics International*, Vol. 33, No. 3, pp. 210-217, 2009.
- 34.Dicianno BE, Arva J, Lieberman JM, Schmeler MR, Souza A, Phillips K, Lange M, **Cooper RM**, Davis K, Betz KL, RESNA Position on the Application of Tilt, Recline, and Elevating Legrests for Wheelchairs, *Assistive Technology*, pp. 13-22, Vol. 21, No. 1, March 2009.
- 33.Liu HY, Cooper RA, Pearlman J, **Cooper R**, Connor S, Evaluation of Titanium Ultralight Manual Wheelchairs Using ANSI/RESNA Standards, *Journal of Rehabilitation Research and Development*, Vol. 45, No. 9, pp. 1251-1268, 2008.

32. Ding D, Leister E, Cooper RA, **Cooper R**, Kelleher A, Usage and Effectiveness of Power Wheelchair Seating Functions in the Natural Environment of Wheelchair Users, *Journal of Rehabilitation Research and Development*, Vol. 47, No.7, pp. 973-984, 2008.
31. Cooper RA, Tolerico M, Kaminski BA, Spaeth DM, Ding D, **Cooper R**, Quantifying Wheelchair Activity of Children: a pilot study, *American Journal of Physical Medicine and Rehabilitation*, Vol. 87, No. 12, pp. 977-983, 2008.
30. Ding D, Souza A, Cooper RA, Fitzgerald SG, **Cooper RM**, Kelleher AR, Boninger ML, Impact of Pushrim Activated Power Assist Wheelchairs Among Individuals with Tetraplegia, *American Journal of Physical Medicine and Rehabilitation*, Vol. 87, No. 10, pp. 821-829, 2008.
29. Cooper RA, **Cooper R**, Boninger ML, Trends and Issues in Wheelchair and Seating Technologies, *Assistive Technology*, Vol. 20, No. 2, pp. 61-72, 2008.
28. Chaves ES, Cooper RA, Collins DM, Karmarkar A, **Cooper RM**, Review of Use of Restraints and Lap Belts with Wheelchair Users, *Assistive Technology*, Vol. 19, No. 2, pp. 94-107, 2007.
27. Zipfel E, Cooper RA, Pearlman J, **Cooper RM**, McCartney M, New Design and Development of a Manual Wheelchair for India, *Disability and Rehabilitation: Assistive Technology*, Vol. 29, No. 11/12, pp. 949-962, 2007.
26. Cooper RA, Boninger ML, Spaeth DM, Ding D, Guo SF, Koontz AM, Fitzgerald SG, **Cooper R**, Kelleher A, Collins DM, Engineering Better Wheelchairs to Enhance Community Participation, *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, Vol. 14, No. 4, pp. 438-455, 2006.
25. Cooper RA, **Cooper R**, Tolerico M, Guo SF, Ding D, Pearlman J, Advances in Electric Powered Wheelchairs, *Topics in Spinal Cord Injury Rehabilitation*, Vol. 11, No. 4, pp. 15-29, Spring, 2006.
24. Guo S, Grindle GG, Authier EL, Cooper RA, Fitzgerald SG, Kelleher AR, **Cooper R**, Development of the GAME<sup>Cycle</sup> Exercise System and Its Effectiveness, *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, Vol. 14, No. 1, pp. 83-90, 2006.
23. Fitzgerald, SG, Cooper RA, Zipfel E, Spaeth DM, Puhlman J, Kelleher A, **Rosemarie Cooper** |R, Guo SF, The Development and Preliminary Evaluation of a Training Device for Wheelchair Users: The GAME<sup>Wheels</sup> System, *Disability and Rehabilitation: Assistive Technology*, Vol. 1, No. 1-2, pp. 129-139, 2006.
22. Pearlman J, Cooper RA, Zipfel E, **Cooper R**, McCartney M, Towards The Development of An Effective Technology Transfer Model of Wheelchairs to Developing Countries, *Disability and Rehabilitation: Assistive Technology*, Vol. 1, No. 1-2, pp. 103-110, 2006.
21. Cooper RA, Boninger ML, **Cooper R**, Kelleher A, Use of the Independence 3000 IBOT<sup>TM</sup> Transporter at Home and in the Community: A Case Report, *Disability & Rehabilitation: Assistive Technology*, Vol. 1, No. 1-2, pp. 111-117, 2006.
20. Fitzgerald SG, Collins DM, Cooper RA, Tolerico M, Kelleher AR, Hunt PC, Martin SG, Impink BG, **Cooper R**, Issues in the Maintenance and Repairs of Wheelchairs: A Pilot Study, *Journal of Rehabilitation Research and Development*, pp. 853-862, Vol. 42, No. 6, November/December 2005.

19. Pearlman JL, Cooper RA, Karnawat J, **Cooper R**, Boninger ML, Evaluation of the Safety and Durability of Low-Cost Electric Powered Wheelchairs, Archives of Physical Medicine and Rehabilitation, Vol. 86, No. 12, pp. 2361-2370, December, 2005.
18. Wolf EJ, Pearlman J, Cooper RA, Fitzgerald SG, Kelleher AR, Collins DM, Boninger ML, **Cooper R**, Vibration Exposure of Individuals Using Wheelchairs Over Concrete Paver Surfaces, Disability and Rehabilitation, Vol. 27, No. 23, pp. 1443-1449, 2005.
17. Cooper RA, Dan D, Simpson R, Fitzgerald SG, Spaeth DM, Guo SF, Koontz AM, **Cooper R**, Kim J, Boninger ML, Virtual Reality Applied to Wheeled Mobility: An Overview of Work in Pittsburgh, Assistive Technology, Vol. 17, No. 2, pp. 159-170, Fall, 2005.
16. Algood SD, Cooper RA, Fitzgerald SG, **Cooper R**, Boninger ML, Effect of a Pushrim Activated Power Assist Wheelchair on the Functional Capabilities of Individuals with Tetraplegia, Archives of Physical Medicine and Rehabilitation, Vol. 86, No. 3, pp. 380-386, 2005.
15. Kwarciak AM, Cooper RA, Ammer WA, Fitzgerald SG, Boninger ML, **Cooper R**, Fatigue Testing of Selected Suspension Manual Wheelchairs Using ANSI/RESNA Standards, Archives of Physical Medicine and Rehabilitation, Vol. 86, No. 1, pp. 123-129, 2005.
14. Cooper RA, Wolf EJ, Fitzgerald SG, Kelleher A, Ammer WA, Boninger ML, **Cooper R**, Evaluation of Selected Sidewalk Pavement Surfaces, Journal of Spinal Cord Medicine, Vol. 27, No. 5, pp. 468-475, 2004.
13. Fitzgerald SG, Cooper RA, Thorman TA, **Cooper R**, Guo SF, Boninger ML, GAME<sup>Cycle</sup>: An Effective Mode of Exercise, Journal of Spinal Cord Medicine, Vol. 27, No. 5, pp. 453-549, 2004.
12. Chavez E, Boninger ML, **Cooper R**, SG Fitzgerald, D Gray, Cooper RA, Application of a Participation System to Assess the Influence of Assistive Technology on the Lives of People with Spinal Cord Injury, Archives of Physical Medicine and Rehabilitation, Vol. 85, No. 11, pp. 1854-1858, 2004.
11. Algood SD, Cooper RA, Boninger ML, Fitzgerald SG, **Cooper R**, Impact of a Pushrim Activated Power Assist Wheelchair on the Metabolic Demands, Stroke Frequency, and Range of Motion among Individuals with Tetraplegia, Archives of Physical Medicine and Rehabilitation, Vol. 85, No. 11, pp. 1865-1871, 2004.
10. Cooper RA, Boninger ML, **Cooper R**, Fitzgerald SG, Dobson A, Preliminary Assessment of a Prototype Advanced Mobility Device in the Work Environment of Veterans of Spinal Cord Injury, Neurorehabilitation, Vol. 19, No. 2, pp. 161-170, 2004.
9. Cooper RA, **Cooper R**, Design of an Arm-Powered General-Purpose Tricycle for Use by People with Mobility Impairments, Saudi Journal of Disability and Rehabilitation, Vol. 9, No. 2, pp. 92-96, 2003.
8. Corfman TA, Cooper RA, Fitzgerald SG, **Cooper R**, A Video-Based Analysis of "Tips and Falls" During Electric Powered Wheelchair Driving, Archives of Physical Medicine and Rehabilitation, Vol. 84, No. 12, pp. 1797-1802, 2003.
7. Cooper RA, Boninger ML, **Cooper R**, Dobson AR, Schmeler M, Kessler J, Fitzgerald SG, Technical Perspectives: Use of the Independence 3000 IBOT Transporter at Home and in the Community, Journal of Spinal Cord Medicine, Vol. 26, No. 1, pp. 79-85, 2003.



6. Boninger ML, Cooper RA, Fitzgerald SG, Lin J, **Cooper R**, Dicianno B, Liu B, Investigating Neck Pain in Wheelchair Users, *American Journal of Physical Medicine and Rehabilitation*, Vol. 82, No. 3, pp. 197-202, 2003.
5. Cooper RA, Boninger ML, Baldini FD, Robertson RN, **Cooper R**, Wheelchair Racing Efficiency, Disability and Rehabilitation, Vol. 25, Nos. 4-5, pp. 207-212, 2003.
4. Cooper RA, Nakahara A, Ster J, **Cooper R**, Design of an Internal Three Speed Hub for a Manual Wheelchair, *Saudi Journal of Disability and Rehabilitation*, Vol. 8, No. 3, pp. 143-147, 2002.
3. Cooper RA, Thorman T, **Cooper R**, Dvorznak MJ, Fitzgerald SG, Ammer W, Guo SF, Boninger ML, Driving Characteristics of Electric Powered Wheelchair Users: How Far, Fast, and Often do People Drive? *Archives of Physical Medicine and Rehabilitation*, Vol. 83, No. 2, pp. 250-255, 2002.
2. Cooper RA, Baldini FD, Boninger ML, **Cooper R**, Physiological Responses to Two Wheelchair Racing Exercise Protocols, *Neurorehabilitation and Neural Repair*, Vol. 15, pp. 191-195, 2001.
1. Cooper RA, Fitzgerald SG, Boninger ML, Brienza DM, Shapcott N, **Cooper R**, and Flood K, Telerehabilitation: Expanding Access to Rehabilitation Expertise, *Proceedings of the IEEE*, Vol. 89, No. 8, pp. 1174-1191, 2001.

#### BOOK CHAPTERS

**Spinal Cord Medicine, 3rd ed.** Steven Kirshblum, Vernon W. Lin, *Editors*, Springer Publishing Company, New York (2018) : Wheelchairs and Seating for People with Spinal Cord Injury (Chapter 44), R.A. Cooper, **R. Cooper**, M.L. Boninger, E. Teodorsky, T. Thorman, T. Pelleschi, S.A. Sundararm, B. Daveler, D.C. Kamara, R. Schein,

**Promoting Successful Integration**, edited by Rory A. Cooper, PhD, COL Paul F. Pasquina, MD, and COL Douglas A. Etter. 450 pages. Washington, DC: Department of the Army, Office of The Surgeon General, Borden Institute, 2018. Chapter Three: The Promise of the Future: Assistive Technology, Transportation, and Emerging Technologies # 41 by **Rosemarie Cooper**, *Cheng-Shiu (Joshua) Chung, John Coltellaro, Christina LaCroix, Amy Lane, Alissa Ling, Amanda Reinsfelder, Benjamin Salatin, and Goeran Fiedler,*

**Adaptive Sports Medicine: A Clinical Guide**, Arthur Jason Di Luigi, *Editor*, Springer International, Cham, Switzerland, Wheelchair Sports Technology and Biomechanics (Chapter 2), R.A. Cooper, **R. Cooper**, A. Susmarski, pp. 21-34., 2017

**Warrior Transition Leader Medical Rehabilitation Handbook**, edited by Rory A. Cooper, PhD, COL Paul F. Pasquina, MD, and Ron Drach. 256 pages. Washington, DC: Department of the Army, Office of The Surgeon General, Borden Institute, 2011. Chapter 5: “*Roles of Medical and Rehabilitation Professionals*” by **Rosemarie Cooper**, MPT, Brad Dicianno, MD and Paul Pasquina, MD

**Textbook of Rehabilitation Engineering**, Toshiyasu Yamamoto, Ph.D., *Editor*, Ishiyaku Publishers Inc., Tokyo, Japan :Biomechanics of and Interfaces for Wheelchair Mobility, R.A. Cooper, M.L. Boninger, A.M. Koontz, D.M. Spaeth, M.J. Dvorznak, **R. Cooper**, A. Dobson

**ISCoS Textbook on Comprehensive Management of Spinal Cord Injuries**, Harvinder Singh Chhandra, *Editor*, Wolters Kluwer (India), New Delhi. Assistive Technology: An International Approach to the Comprehensive Management (Chapter 38), **Rosemarie Cooper**, Rory A. Cooper, Maria Luisa Toro

Hernandez, Theresa M. Crytzer, Tasia Bobish, Robert Mankowski, Jennifer Mankowski, John Coltellaro, Bryan McCormick, Eliana Chaves Ferretti, Maria Aparecida Ferreira de Mello, Nekram Upadhyay, pp. 594-612 (2015)

Hiremath, S.V., Cooper, R.A., Pelleschi, T.L., and **Cooper, R.**, Wheeled mobility devices. In P.A. Smith, F. Rauch, and G.F. Harris (Eds.). *Transitional Care in Osteogenesis Imperfecta: Advances in Biology, Technology, and Clinical Practice*. Chicago: Shriners Press; 2015, 301-326.

**Brain Injury Medicine, 2nd Edition**, Nathan D. Zasler, MD, Douglas I. Katz, MD, Ross Z. Zafonte, DO, Editors, Demos Medical Publishing, New York. **Assistive Technology for People with Traumatic Brain Injuries**, R.A. Cooper, M. McCue, R.M. Schein, **R. Cooper**, M.L. Sporner, M.B. Dodson, A.M. Reinsfelder, A.F. Yeager, A. Jinks, E. LoPresti, L. McClure.

**Textbook of Rehabilitation Engineering**, Toshiyasu Yamamoto, Ph.D., *Editor*, Ishiyaku Publishers Inc., Tokyo, Japan. **Biomechanics of and Interfaces for Wheelchair Mobility**, R.A. Cooper, M.L. Boninger, A.M. Koontz, D.M. Spaeth, M.J. Dvorznak, **R. Cooper**, A. Dobson

**Wheelchair Sports**, Vicky Goosey-Tolfrey, *Editor*, Human Kinetics. **Sports Chair Set-up and Selection**, H. Liu, I. Rice, J.Z. Laferrier, **R.M. Cooper**, M.L. Boninger, R.A. Cooper

**Stroke Recovery and Rehabilitation**, Joel Stein, Richard Harvey, Richard Macko, Carolee J. Weinstein, Richard Zorowitz, *Editors*, Demos Medical Publishing, New York, NY. **Seating, Assistive Technology, and Equipment (Chapter 33)**, R.A. Cooper, B. Brewer, **R.M. Cooper**, K. Hill, P. Karg, A. Karmarkar, A. Lane, R. Little, T. Peleshi, pp. 543

**Spinal Cord Injuries Management and Rehabilitation**, Sue Ann Sisto, Erica Druin, Martha Macht Sliwinski, Editors, Mosby-Elsevier, 2008. **Sports and Recreation for People with Spinal Cord Injuries (Chapter 19)**, I. Rice, R.A. Cooper, **R. Cooper**, A. Kelleher, A. Boyles, pp. 455-477.

**Textbook of Rehabilitation Engineering**, Toshiyasu Yamamoto, Ph.D., *Editor*, Ishiyaku Publishers Inc., Tokyo, Japan, **Biomechanics of and Interfaces for Wheelchair Mobility**, R.A. Cooper, M.L. Boninger, A.M. Koontz, D.M. Spaeth, M.J. Dvorznak, **R. Cooper**, A. Dobson

**Exercise in Rehabilitation Medicine**, 2<sup>nd</sup> Edition, W.R. Frontera, *Editor*, Human Kinetics Publishing, Champaign, IL. **Elite Athletes with Impairments**, R.A. Cooper, M.L. Boninger, I. Rice, S.D. Shimada, **R. Cooper**, Chapter 21

**Textbook of Neural Repair and Rehabilitation**, Michael Selzer, M.D., Leonardo Cohen, M.D., and Fred Gage, Ph.D., *Editors*, Cambridge University Press, 2006. **Wheelchair Design and Seating Technology**, R.A. Cooper, **R. Cooper**, M.L. Boninger, Chapter 11, pp. 147-164

**Encyclopedia of Medical Devices and Instrumentation**, John Wiley and Sons Inc., Hoboken, NJ, 2006. **Mobility Aids**, R.A. Cooper, E.J. Wolf, D.M. Collins, E.S. Chaves, J. Pearlman, A. Karmarkar, **R. Cooper**, pp. 544-555.

**Textbook of Rehabilitation Engineering**, Toshiyasu Yamamoto, Ph.D., *Editor*, Ishiyaku Publishers Inc., Tokyo, Japan, **Biomechanics of and Interfaces for Wheelchair Mobility**, R.A. Cooper, M.L. Boninger, A.M. Koontz, D.M. Spaeth, M.J. Dvorznak, **R. Cooper**, A. Dobson

**Spinal Cord Medicine**, edited by Vernon Lin, M.D. Wheelchairs and Seating for People With Spinal Cord Injuries, R.A.Cooper, M.L. Boninger, **R.Cooper**, T. Thorman-Demos Medical Publishing Inc., 2003, Section VII pp. 635-655

**Physical Medicine and Rehabilitation: Principles and Practice**, 2002, Wheelchair Prescription and Adaptive Seating, M.L. Boninger, R.A. Cooper, M. Schmeler, **R.Cooper**

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## TEACHING

### COURSES TAUGHT:

#### UNDERGRADUATE COURSE:

HRS 1704: Introduction to Assistive Technology (Lead Professor) (Fall 2005-Fall 2018)

(4 credit course: lecture and two 1hour lab sessions /week)

15-20 students in lecture; 8-10 students each lab session

The course is designed for undergraduate students to simply learn more about the field of rehabilitation engineering and assistive technology, as well as for those needing a foundation to build upon for more advance studies in the field.

#### GRADUATE COURSES

HRS 2701: PRESSURE Management Course

(Co-Lecturer for Clinical Application/Laboratory: 2002-2003)

HRS 2704: Fundamentals Rehabilitation Technology) (Lead-Professor) (2005-Fall2018)

(4 credit course: lecture and three 1hour lab sessions /week)

30-45 students in lecture; 10-15 students each lab session

This course introduces multiple areas of assistive technology and rehabilitation engineering. It is a fall term course and a prerequisite for HRS 2705, which is offered in the spring.

HRS 2705: Rehab Engineering and AT practices (Lead-Professor) (2005-2019)

(3 credit course: lecture and 2x 2hrs clinical observation)

4-8 students in lecture and 2 students per clinical observation

The focus of the course is to learn the clinical assessment and application of Assistive Technology (AT) to assist people with disabilities. Students need to understand the basics of the clinical AT service delivery process.

HRS 3710: Clinical Application of wheelchair & mobility (Co-Professor: 2003-2019)

(3 credit course: lecture and 4 hrs /week clinical practice)

4-8 students in lecture and 2-4 students for 4 hours/week in CAT clinic

The purpose of this course is for students to develop knowledge and hands-on skill in the process of identifying and providing wheeled mobility and seating interventions to people of all ages and disability type. The class will be carried out specifically through a case based and evidence-based practice learning approach

### LECTURES AND SEMINARS:

27. *Invited Lecture* - UK Paralympic Conference, Manchester, UK; March 12-14, 2019  
**Rosie Cooper** (Pittsburgh University, USA), Ali MacPherson (English Institute of Sport), Barry Mason (Peter Harrison Centre, Loughborough University), Liam Sanders This session will explore current research and applied practice in supporting athletes in the selection and configuration of equipment, primarily focusing on daily use wheelchairs and lower limb sprinting prosthesis; Provided lecture on “Fitting of ultralight manual wheelchairs.”
26. *Keynote lecture* - “AT Service Delivery”, presented at the University of Kentucky, Spring Institute in Assistive Technology”, March 28, 2019
25. *Invited Lecture* - The Academy AAOP Spring Conference, presented lecture on “Assistive Technology Service Delivery Model”, Washington PA on May 10<sup>th</sup>, 2019
24. Clinical instructor as and member of University of Pittsburgh VA Polytrauma Rehabilitation Centers (PRC) “Deep Dive” in Assistive Technology Institute May 2010.  
 /2011/2012/2013/2014/2105/2016/2017/2018
23. AC DHS / Area Agency on Aging ATTS Information Session & Guided Tour of the CAT (40 participants): Provided Lecture on “CAT – AT Service Delivery Model” and tour of CAT, April 24, 2009
22. AC DHS / Area Agency on Aging ATTS Information Session & Guided Tour of the CAT for (35 participants): Provided Lecture on “CAT – AT Service Delivery Model” and tour of CAT, May 15, 2009
21. “Treatment and Prevention of Injuries to Wheelchair athletes”  
 Lecture topic I presented: “Pressure management and Seating”, USOC-Amazing Leader Conference, Colorado Springs April 5, 2008
20. Walter Reed Army Medical Center Workshop on SCI: participated as a family member in the interactive Q&A session on the Topic of Quality of live after SCI- the panel consisted on of members with SCI and some family; Washington DC April 11, 2008
19. *Invited Lecture* - “Overview of Assistive Technology for People with Spinal Cord Injuries” at the International Spine and Spinal Injuries Conference, New Delhi, India, February 22-24, 2008
18. HERL Wheelchair and Seating symposium April 12, 2007-Provided hands on training on manual wheelchair prescription – Case presentation.
17. HERL Wheelchair and Seating symposium March 22, 2007- Presented lecture entitled “Locus of Control –A Client Centered Approach to AT Service Delivery”.
16. 23<sup>rd</sup> International Seating Symposium March 7<sup>th</sup>-10, 2007 provided lecture on March 07, 2006 SCI Clinical Practice Guidelines re-conference workshop on “Electric Powered Wheelchair Selection and Training.

15. Comprehensive Seating Mobility Seminar at the Indian Spinal Cord Injury Center( ISCI) New Delhi February 13&14, 2007 presented lecture Locus of Control –A Client Centered Approach to AT Service Delivery” and provide hands on lab session on Mat Assessment and Transfers skills
14. Walter Reed Army Medical Center: Military Amputee Program, Lecture Series September 01, 2006- Presented lecture entitled “Locus of Control –A Client Centered Approach to AT Service Delivery”.
13. International Spine and Spinal Injuries Conference, 2006 @ Hotel Ashok, Delhi March 3-5, 2006 team member of Post Conference Workshop, ISIC March 7, 2006 (All Day)-presented lecture on “Seating and Cushions” and provided hands-on lab activity on “Mat Assessments” to workshop participants
12. Wheelchair SIG & RESJA conference in Saga, August 31, 2005 Japan presented lecture on “Specialized Seating and Mobility”
11. Comprehensive Workshop in Seating and Wheeled Mobility October 1-3, 2004 presented two lectures “Pressure Management lecture “ and “Seating biomechanics” and provided clinical Case Study Training
10. University of Pittsburgh School of Medicine, Department of PM&R and the UPMC Rehabilitation Network on October 29, 2004 8:3 am- 4:00pm Workshop on “Promoting Mobility and Function: A Model System’s Approach”; presented one lecture on “Promoting Mobility through Seating Systems”.
9. International Seating Symposium January 20-22, 2005:
  - a. Instructional course: “Consideration for the Selection and Fitting of Manual Wheelchairs for Optimal Mobility” presented one lecture on “Manual Wheelchair Selection” and provided instruction during “hands-on” wheelchair skills “training
  - b. Instructional course:” Review of Medical, Technology and Psychological Issues for Persons with MS”; presented one lecture on “Research in Pittsburgh on Assistive Technology and Multiple Sclerosis”.
8. State-of-the-Science Workshop: Wheelchair Research & Clinical Practice Featuring Wheelchair Skills Training on 14 January 2005 at Walter Reed Army Medical Center: Presented one lecture on “Pressure Management and Promoting Mobility through Seating Systems” and provided instruction during “hands-on” wheelchair slalom exercise.
7. India, New Delhi March 2-3, 2005: ISIC Workshop wheelchair Research & Clinical Practice Featuring Wheelchair Skills Training; presented one lecture on “Pressure Management and Promoting Mobility through Seating Systems” and provided “hands-on” lecture on wheelchair cushions.
6. India, Kampur March 8: ALIMCO Workshop Wheelchair Research & Clinical Practice Featuring Wheelchair Skills Training: ; presented one lecture on “Pressure Management and Promoting Mobility through Seating Systems” and provided “hands-on” instructions on wheelchair skills training to factory workers using manual wheelchairs
5. Comprehensive Workshop in Seating and Wheeled Mobility: September 12<sup>th</sup>-14<sup>th</sup>, 2003 presented lecture on “Pressure Management lecture “and provided clinical Case Study Training

4. Comprehensive Workshop in Seating and Wheeled Mobility: March 27<sup>th</sup>-29<sup>th</sup>, 2004, presented two lectures “Pressure Management lecture “ and “Seating Biomechanics” and provided clinical Case Study Training
3. 3-day Seating Seminar, January 10-12,2003, University of Pittsburgh, SHRS, RST (Guest lecture on: Pressure mapping systems and Instructor during Clinical Exercises)
2. Manual Wheelchair Propulsion Technique, *International Seating Symposium*, Orlando FL, February 26<sup>th</sup>, 2003. (Co- lecture for two sections: “Exercises for Prevention” and “Manual Wheelchair Selection”)
1. Mobility Considerations in Progressive Disorders, *International Seating Symposium*, Orlando FL, February 27<sup>th</sup>, 2003. (Co-lecturer)

#### DOCTORAL DISSERTATION COMMITTEE MEMBER

Mark Greenhalgh: *An Ergonomic Assessment of the Strong Arm Robotic Assisted Transfer Device to Conduct Dependent Wheelchair Transfers and Improve Quality of Care Delivery for Caregivers and Mobility Device Users*

Bachelor of Science, Neuroscience, University of Pittsburgh

PhD in Rehabilitation Science, University of Pittsburgh, in process

Jorge Luis Candiotti: *Design, Development, and Evaluation of Control Algorithms for a Mobility Enhancement Robotic Wheelchair (MEBot)*

Bachelor of Science in Electrical Engineering, University of Pittsburgh, 2010

PhD, Rehabilitation Science, University of Pittsburgh, 2017

Hsin-Yi Liu: *Development of a Customized Electronic Reminder to Facilitate Powered Seating Function Usage and Compliance with Clinical Recommendations: Design Process and Clinical Efficacy*

Bachelor of Science, Physical Therapy, National Taiwan University, 2001

Masters of Science, Rehabilitation Science & Technology, University of Pittsburgh, 2008

PhD, Rehabilitation Science, University of Pittsburgh, 2013

Eliana Chavez Ferretti: *Assessing the Influence of Wheelchair on Individuals with Spinal Cord Injury Using a Measure of Participation*

BS OT, Federal University of San Carlos (Brazil), 1995

MS RST, University of Pittsburgh, 2003

PhD Rehabilitation Science, University of Pittsburgh, 2007

#### MASTER THESIS COMMITTEE -MEMBER

Hsin-yi Liu: *Evaluation of Titanium Ultralight Manual Wheelchairs*

BS-PT, National Taiwan University, 2001

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### RESEARCH

Rehabilitation engineering, invention, design, evaluation, and transfer of technology to assist people with disabilities and older adults to include wheelchairs, robotics, smart devices, and assistive technology. I have engaged CAT in research (virtual coaches, advanced mobility devices, assistive robotic devices), development of clinical outcome tools (functioning every day in a wheelchair, functional mobility assessment, multi-sensor driving assessment), and experimental clinical service provision (e.g., telerehabilitation, wearable technologies).

GRANT FUNDING:

Years 1998 thru 2005: Role served as Clinical Investigator and effort ranged from 5% to 100%.

Years 2006 thru 2019: After becoming CAT Director for 80% effort paid by UPMC Health System; served as Clinical Investigator with effort ranging from 0% to 20% from grants and contracts.

Role	Grant Title	Agency	Award #	Amount	Years
Co-I	Addressing Social Determinants of Health for Persons Living with Spina Bifida	Pennsylvania Department of Health	N/A	\$137,522.17.	2019-2020
Co-I	Pneumatic Powered Scooter	Coulter Foundation	N/A	\$100,000	2018-2019
Co-I	Toyota Mobility Challenge	NESTA – Toyota Mobility Foundation	N/A	\$659,744	2018-2020
Co-I	Manual Wheelchair Virtual Seating Coach	Department of Defense - CDMRP	W81XWH-17-1-0620	\$148,922	2017-2018
Co-I	REU Site: American Student Placements in Rehabilitation Engineering	National Science Foundation	EEC- 1560174	\$351,506	2016-2019
Co-I	Center of Excellence for Wheelchairs & Associated Rehabilitation Engineering	U.S. Dept. of Veterans Affairs	B9250C	\$4,500,000 (Direct Costs)	2014-2019
Co-I	American Student Placements and Internships in Rehabilitation Engineering – Research Experience for Undergraduates	National Science Foundation	EEC-1262670	\$363,724	2013-2016
Co-I	Center of Excellence for Wheelchairs & Associated Rehabilitation Engineering	U.S. Dept. of Veterans Affairs	B6789C	\$5,000,000 (Direct Costs)	2009-2014
Co-I	Powered Seating Function Usage Among Veterans – Compliance and Coaching	U.S. Dept. of Veterans Affairs	B6591R	\$800,000 (Direct Costs)	2009-2013
Co-I	American Student Placements and Internships in Rehabilitation Engineering	National Science Foundation	EEC-	\$360,000	2009-2011
Co-I	Quality of Life Technology Engineering Research Center	National Science Foundation	EEC-0540865	\$14,500,000	2006-2011
Co-I	University of Pittsburgh Model Center on Spinal Cord Injury	U.S. Dept. of Education – National Institute on Disability and Rehabilitation Research	H133N060019	\$1,600,000	2006-2011
Co-I	American Student Placements and Internships in Rehabilitation Engineering	National Science Foundation	EEC-0552351	\$271,500	2006-2009
Co-I	Quality of Life Technology	Pittsburgh Life Sciences Greenhouse		\$200,000	2006-2007
Co-I	Development of a Lightweight Adjustable Modular Pediatric Wheelchair	U.S. Dept. of Education	H133S040028	\$75,000	2004-2005

Co-I	Collapsible Ultralight Wheelchair – Phase 2	U.S. Dept. of Education – National Institute on Disability and Rehabilitation Research	H133S030016	\$499,896	2003-2006
Co-I	Center of Excellence for Wheelchairs & Associated Rehabilitation Engineering	U.S. Dept. of Veterans Affairs	C3142C	\$4,250,000 (Direct Costs)	2004-2009
Co-I	The University of Pittsburgh Brain Injury System – Model Center	U.S. Dept. of Education – National Institute on Disability and Rehabilitation Research	H133A020502	\$1,818,484	2002-2007
Co-I	Collaboration of Upper Limb Pain in Spinal Cord Injury	U.S. Dept. of Education	H133A011107	\$349,998	2002-2006
Co-I	The Development of a Dynamic Shoulder Model to Evaluate Function During Activity	U.S. Dept. of Veterans Affairs	B2674CA	\$99,950 (Direct Costs)	2001-2003
Co-I	Development of the Game-Cycle Exercise System	National Institutes of Health	1R41HD39535-01	\$100,000	2001-2002
Co-I	Telerehabilitation for Veterans Requiring Assistive Technology	U.S. Dept. of Veterans Affairs	B2159TC	\$860,000 (Direct Costs)	2000-2005
Co-I	University of Pittsburgh Model Center for Spinal Cord Injury	U.S. Dept. of Education	H133N000019	\$1,600,000	2000-2006
Co-I	Arm Pain in People with Paraplegia During Wheelchair Propulsion	U.S. Dept. of Veterans Affairs	B2290T	\$454,300 (Direct Costs)	2000-2003
Co-I	A Robotic Walker for the Frail Elderly with Visual Impairment	U.S. Dept. of Veterans Affairs	C2272R	\$625,900 (Direct Costs)	2000-2003
Co-I	Development of a Pushrim Force and Moment Measurement Device	National Institutes of Health	1R41HD39020-01	\$100,000	2000
Co-I	Center of Excellence for Wheelchairs & Related Technology	U.S. Dept. of Veterans Affairs	F2181C	\$4,135,000 (Direct Costs)	1999-2004
	Effects of Cushion and Back Support on Wheelchair Ride Comfort	U.S. Dept. of Veterans Affairs	B805-RC	\$506,000 (Direct Costs)	1998-2001

## SERVICE

### CLINICAL LEADERSHIP AND THERAPY SERVICES

2005-2020 Assistant Professor and the Director of the Center for Assistive Technology (CAT), a joint effort of the University of Pittsburgh and UPMC Health System

Expanded relationships with clinical service providers within the UPMC Health System to include Communication Sciences & Disorders, Physical Medicine & Rehabilitation, Neurology, Geriatrics, and Internal Medicine. Under the Commonwealth of Pennsylvania agreement between UPMC and Highmark;

CAT was identified as a unique Center of Excellence that must be accessible to all people in need within the Commonwealth, and not restricted to members of the UPMC Health Plan.



I worked with the Commonwealth of Pennsylvania Office of Vocational Rehabilitation to base a counselor in CAT to help clients enroll in their programs, and to encourage people with disabilities to pursue education and career goals.

I have also worked with the UPMC Corporate Office of Risk Management to improve accommodations for clients with disabilities throughout the health system. I provide regular consultation to the UPMC Health Plan on coverage issues and I am a fierce advocate for CAT clients.

I also provide consultation to the UPMC Health System on the delivery of assistive technology at other UPMC facilities and work closely with the clinicians in the spinal cord injury and multiple sclerosis programs.

CAT is a learning organization that is continuously evolving. CAT has grown the number of client visits from less than 1,000 per year to nearly 3,000 per year during my tenure.

#### SERVICE TO THE UNIVERSITY, SCHOOL AND DEPARTMENT

For the last 15+ years I have volunteered for **Investing Now!** an SHRS sponsored event that is intended to show high school students what opportunities exist for their future and to help them develop interest in Rehabilitation profession.

*University Pittsburgh SHRS/PT-Department:* I have provided an afternoon seminar on wheelchair related technologies and seating to MSPT-students, as part of their AT- curriculum, with the most recent one June 25<sup>th</sup>, 2019 @ 4:00 pm- 7:00 pm.

SHRS OT-Department: provided clinical seating /mobility education to OT students

SHRS PT- Department: provided clinical seating /mobility to DPT students.

HRS 2704 Adaptive Driving Lab Activities opened school wide to SHRS: 100+ students from SHRS attended (PT/RST/ P&O)

HRS 2723 Course title: Guest lecture on Assistive Technology to Promote Mental & Physical Functioning; provided guest lecture on Wheeled Mobility and Seating as part of an AT Service Delivery Clinic;

#### SERVICE TO THE COMMUNITY

2013-2017 Elected member of the Paralyzed Veterans of America Scientific Advisory Board

2009- Elected Member on Board of Directors of Western PA Easter Seals

#### PUBLICATIONS TARGETING THE PUBLIC

2015

29. **Cooper RM**, Cooper RA, Proper Set-Up and Training to Optimize Self-Propulsion of Manual Wheelchairs, **Directions**, pp. 44-49, Vol. 3, 2015

2013

28.Cooper RA, **Cooper RM**, Save Your Shoulders, Sports' Spokes, pp.49-51,

Vol 39, No.4, July 2013

27.Cooper RA, **Cooper RM**, Ready ... Set ... Push, **PN**, pp. 26-29, Vol. 67, No. 3, March 2013

2012

26.Cooper RA, Cooper RM, Emerging Developments, **Sports 'N Spokes**, pp. 58-61, Vol. 38, No. 2, March 2012

2011

25.Cooper RA, **Cooper R**, Chair Shake-Up, **Sports 'N Spokes**, Vol. 37, No. 2, pp. 29-33, 2011.

24.Cooper RA, **Cooper R**, Wheelchairs: Are We in the Dark Ages, **PN Magazine**, Vol. 65, No. 1, pp. 46-51, 2011.

2010

23.Cooper RA, **Cooper R**, Kelleher A, More Than Just Games, **PN Magazine**, Vol. 64, No. 05, pp. 58-61, 2010.

22. Cooper RA, **Cooper RM**, What's the Right Ultralight?, **Paraplegia News**, pp. 30-31, Vol. 64, No. 7, July 2010.

2009

21.Cooper RA, Olson J, **Cooper R**, Manual Wheelchair Lingo, **PN Magazine**, Vol. 63, No. 11, pp. 17-24, 2009.

20.Cooper RA, Olson J, **Cooper R**, Power-Chair Lingo, **PN Magazine**, Vol. 63, No. 5, pp. 32-36, 2009.

2008

19.Cooper RA, **Cooper, RM**, Paralympic Impressions, **Sports 'N Spokes**, Vol. 34, No. 6, pp. 36-37, 2008.

18.Cooper RA, **Cooper RM**, Impressions of Beijing, **Paraplegia News**, Vol. 62, No. 12, pp. 42-47, 2008.

17. Cooper RA, **Cooper RM**, Wheeling Through the World, **Sports 'N Spokes**, Vol. 34, No. 2, pp. 41-42, 2008.

2007

16.Cooper RA, **Cooper RM**, Vertical Value: Whether Sitting or Standing, Vertical Movement Has Its' Advantages!, **Paraplegia News**, pp. 34-38, Vol. 61, No. 8, August 2007.

2006

15.Cooper RA, **Cooper R**, Powering On, **PN Magazine**, Vol. 60, No. 9, pp. 13-20, September, 2006.

2004

14.Cooper RA, **Cooper R**, Choosing a Manual Wheelchair: Understanding Quality Standards, **Clinical Notes: Innovative Healthcare Solutions**, pp. 1 & 11, Winter, 2004.

13. Cooper RA, **Cooper R**, Schmeler M, Kelleher A, Innovations in Design: Advances in Wheelchair Technology Make for an Easy-Access World, **Advance for Directors in Rehabilitation**, Vol. 18, No. 8, pp. 25-28, August 2004.

12.Schmeler MR, Boninger ML, Cooper RA, **Cooper R**, Freestyle Seating, **Rehab Management**, Vol. 17, No. 1, pp. 38-42, January/February 2004.

11. Cooper RA, **Cooper R**, Schmeler M, Boninger ML, Push for Power, **Rehab Management**, Vol. 17, No. 2, pp. 32-36, 2004.
- 2003
10. Schmeler M, Kelleher A, Cooper RA, **Cooper R**, Show Me The Money, **Advance for Directors in Rehabilitation**, Vol., 12, No. 10, pp. 31, 2003.
9. Cooper RA, **Cooper R**, Time to Mobilize: 21<sup>st</sup> Annual Survey of Lightweight-Wheelchair Manufacturers, **Sports 'N Spokes**, Vol. 29, No. 2, pp. 34-42, March 2003.
- 2002
8. Collins D, **Cooper R**, Cooper RA, Schmeler M, Strengthening Justification for Assistive Technology with Research Findings: A Case Study, **RESNA News**, p. 1, Spring 2002.
7. Cooper RA, **Cooper R**, Boninger ML, 20 Years and Still Going Strong: 20<sup>th</sup> Annual Survey of Lightweight Wheelchairs, **Sports 'N' Spokes**, Vol. 28, No. 2, pp. 35-45, March 2002.
- 2001
6. Fitzgerald SG, Thorman T, **Cooper R**, Cooper RA, Evaluating Wheelchair Cushions, **REHAB Management**, Vol. 14, No. 1, pp. 42-44, 2001.
- 2000
5. Cooper RA, Schmeler M, **Cooper R**, Thorman T, Boninger ML, On the Lighter Side, **Advance for Providers of Post-Acute Care**, Vol. 3, No. 11, pp. 71-73, 2000.
4. Cooper RA, Schmeler MR, **Cooper R**, Boninger ML, Advanced Seating Systems: Part II, **REHAB Management**, Vol. 13, No. 3, pp. 60-65, 2000.
3. Cooper RA, Schmeler MR, **Cooper R**, Boninger ML, Advanced Seating Systems: Part I, **REHAB Management**, Vol. 13, No. 2, pp. 58-61, 2000.
- 1998
2. Cooper RA, **Cooper R**, Electric Powered Wheelchairs on the Move, **Physical Therapy Products**, July/August, pp. 22-24, 1998.
1. Cooper RA, **Cooper R**, How to Get the Maximum Out of a Manual Wheelchair, **Physical Therapy Products**, May/June, pp. 32-34, 1998.