

## CURRICULUM VITAE

### **PERSONAL INFORMATION**

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Department of Occupational Therapy  
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### **EDUCATION**

<u>Undergraduate:</u>	<u>Wingate Institute, Israel:</u>	
	• B.A. Equivalent and Teaching Certificate in Physical Education	1975-78
<u>Graduate:</u>	<u>Indiana University:</u>	
	• M.S. in Human Performance	1982-84
	• Ph.D. in Exercise Physiology; minor in Endocrinology	1984-88
	<u>University of Florida</u>	
	• Masters of Health Science in Occupational Therapy	1993-95

### **PROFESSIONAL EXPERIENCE**

- Associate Professor, Department of Occupational therapy, College of Health Professions, University of Florida, Gainesville, FL 32610, July, 2003 to present.
- Assistant Professor, Department of Occupational therapy, College of Health Professions, University of Florida, Gainesville, FL 32610, December 1995 to June, 2003.
- Teaching Assistant and post-baccalaureate student, Department of Occupational Therapy, College of Health-Related Professions, University of Florida, Gainesville, FL 32610, August 1993 to December 1995.
- Visiting Associate Scientist, Laboratory of Behavioral Sciences, National Institute on Aging, National Institute of Health, Gerontology Research Center, 4940 Eastern Ave., Baltimore, MD 21224. January, 1992 to July 1993.
- Post-Doctoral Research Associate, Dept. of Pharmacodynamics, College of Pharmacy, University of Florida, Gainesville, FL 32610. July, 1990 to January, 1992.
- Post-Doctoral Research Associate, Physiology Department, College of Medicine, University of Florida, Gainesville, FL 32610. July 1988 to June 1990.
- Associate Instructor, Physical Education Department, Indiana University. Teaching Exercise Physiology Laboratory, coordinating the five Lab sections, revising the Student's Lab Manual, and writing an Instructor's Manual for the course. Sept. 1986 to May 1988.
- Associate Instructor, Physical Education Department, Indiana University. Teaching Basic Exercise Physiology Laboratory. September 1985 to June 1986.

- Visiting Lecturer, Physical Education Department, Indiana University. Teaching Conditioning and Fitness lectures to 400 students and coordinating the Conditioning Labs for ten Associate Instructors. Writing the Instructor's Manual for the course. September 1984 to May 1985.
- Associate Instructor, Physical Education Department, Indiana University. Teaching activity classes such as Racquetball, Self Defense and Bowling. September 1983 to June 1984.
- Adult Fitness Instructor, City of Petach Tikva, Israel. Exercise prescription, and instruction of Adult Fitness. 1980-1981.
- Volleyball Coach, High School and Club Sports, Petach Tikva and Tel-Aviv, Israel. 1975-1978 and 1980-1981.

### **SERVICE AND PROFESSIONAL COMMITTEES:**

#### **National:**

- Editorial Board, the Journal of Hand Therapy, 2002-present.
- Reviewer for the Journal of Hand Therapy, 2000-present.
- Reviewer for the American Journal of Occupational Therapy, 2010-present.
- Reviewer for the Journal of Aging and Physical Activity, 2006-present
- Reviewer for the Journal of Traffic Injury Prevention, 2006-present
- Reviewer for the Archives of Physical Medicine and Rehabilitation, 1999-present.
- Reviewer for the American Journal of Physical Medicine and Rehabilitation, 2002-present.
- Editorial Board, the American Journal of Occupational Therapy, 2010-2012
- Editorial Board, the Occupational Therapy Journal of Research, 2000-2010

#### **University of Florida:**

- Chair of the Search Committee for a Tenure Track Position in the Department of OT, College of PHHP, 2017.
- Chair of the Search Committee for a Research Assistant Professor Position in the Department of OT, College of PHHP, 2017.
- Chair of the Search Committee for a Certified Driver Rehabilitation Specialist, Department of OT, College of PHHP, 2017.
- Member of the Tenure and Promotion Committee, College of PHHP, 2014-Present.
- Member of the Blended-Learning Taskforce, College of PHHP, 2014- Present.
- Member of the Academic Performance Committee, Dpt. of OT 2014-present
- Member of the Curriculum Committee, Dpt. of OT 2019
- Member of the Rehabilitation Sciences Doctoral Program Steering Committee, College of Public Health and Health Professions, University of Florida, 2014-2018.
- Member of the Search Committee for the Chair of OT, College of PHHP, 2014-Present.
- Member of the University of Florida's Academic Policy Council, 2010-2012.
- University of Florida Faculty Senate, elected member from the College of Public Health and Health Professions, 2005-2011.
- Equity and Diversity Advisory Board for the Health Science Center, invited member representing the College of Public Health and Health Professions. October 2007-2013.
- Member of the College of PHHP Teaching Excellence Committee, 2009-2011.

- Member of the College of PHHP Incentive Plan Committee, 2009-2010.
- Co-chair, Shared Governance Leadership Committee, College of Public Health and Health Professions. January, 2007 - 2009.
- Faculty Advisory Group, College of Public Health and Health Professions, September, 2006.
- Faculty advisor of The Health Professions College Council (CC), August 2006 – 2011.
- Faculty advisor of the Health Profession Student Organization (HSSO), August 2006 – 2011.
- Marshall of Graduation, University of Florida, College of Public Health and Health Professions May, 2006.
- Chairperson, Faculty Search Committee, Department of Occupational Therapy, College of Public Health and Health Professions, University of Florida, 2003-2006.
- Chairperson, Cultural Enrichment Committee, College of Public Health and Health Professions, 2003-2004.
- Member, Student Admissions committee, Department of Occupational Therapy, University of Florida, 2003-present.
- Member, Academic Performance Committee, Department of Occupational Therapy, University of Florida, 2000-present.
- Member, Movement Dysfunction Committee, Rehabilitation Sciences Doctoral Program, College of Health Professions, University of Florida, 2000-2014t.
- Marshall of Graduation, University of Florida, 1999-2001.
- Research Coordinator, Department of Occupational Therapy, University of Florida, 1996 - 2000.
- Chairperson, the Alice C. Jantzen Research Symposium Committee, Department of Occupational Therapy, University of Florida, 1999-2000.
- Faculty Coordinator, Intelicus/University of Florida Functional Capacity Evaluation Program, the College of Health Professions, University of Florida, 1999.
- Faculty representative to the Staff Strategic Plan Committee, Department of Occupational Therapy, University of Florida, 1999.
- Member, the Alice C. Jantzen Research Symposium Committee, The Department of Occupational Therapy, University of Florida, 1997-1999.
- Chairperson, Faculty Search Committee, The Department of Occupational Therapy, University of Florida, 1997-1998.
- Coordinator, the Hollis Sammon's Award for Research Papers, The Department of Occupational Therapy, University of Florida, 1996-1997.
- Member, Interdisciplinary Research Forum Committee, the College of Health Professions, University of Florida, 1998-99.
- Member, the University of Florida Committee on Gay, Lesbian, and Bisexual Concerns, 1997-2008
- Member, Incentive Fund Research Development Award Committee, the College of Health Professions, University of Florida, 1997-98.
- Research mentor, the Ronald E. McNair Post-Baccalaureate Achievement Program, University of Florida, 1996-1998
- Mentor, the University Minority Mentor Program, University of Florida, 1996-1998

- Mentor for Friends of Lesbians, Gays and Bisexuals, University of Florida, 1996-present
- Member, the Shands Hospital Ergonomics committee, Gainesville, FL 1996-1998
- Member, Search Committee for Chairperson of the Department of Occupational Therapy, the College of Health Professions, University of Florida, 1996.
- Member, Department of Occupational Therapy Faculty and Staff Recognitions Committee, University of Florida, 1996

### **MEMBERSHIPS**

- The American Society of Hand Therapists (ASHT), 1999-present
- The American Occupational Therapy Association (AOTA), 1995-present
- The Florida Chapter of AOTA (FOTA), 1997-2011
- The American Physiological Society (APS), 1989-1993
- Sigma Xi, The Scientific Research Society, 1988-1991
- The American College of Sports Medicine (ACSM), 1984-1990

### **AWARDS**

- The 2020 College of Public Health and Health Professions' Department of Occupational Therapy Outstanding Senior Alumni Award
- University Term Professorship, University of Florida, College of Public Health & Health Professions, 2017 - 2020
- The 2015-2016 Teacher of the Year Award, College of Public Health and Health Professions, University of Florida
- The 2005-2006 Teacher of the Year Award, College of Public Health and Health Professions, University of Florida
- The 2005-2006 Most Outstanding Faculty Member, Bachelor of Health Science Program, College of Public Health and Health Professions, University of Florida
- The 2005 Golden Apple Award for Excellence in Occupational Therapy Education from the University of Florida's Student Occupational Therapy Association
- The University of Florida Faculty Development Program: The Laptop Computer Program, Office of Instructional Resources: A Dell Laptop Computer and Training Courses, 2000-2001.
- The University of Florida's Health Science Center, 1999-2000 Division Superior Accomplishment Award
- The Women's Interest Student Association: Women at the University of Florida 1999-2000 Calendar
- The 1997-98 Teacher of the Year Award for the University of Florida
- The 1997-98 Teacher of the Year Award, College of Health Professions, University of Florida
- Research Assistantship, Indiana University Medical Sciences Program and Biology Department, Summer 1987.

### **TEACHING EXPERIENCE**

- Musculoskeletal Anatomy, Department of Occupational Therapy and Bachelor of Health Science Program, College of Public Health and Health Professions, University

- of Florida, 1993-present. The course includes 3 hours of lecture and 2 hours of lab per week; there are three labs of 30 students each and thus the number of students is limited to 90. The course focuses on bones, muscles, tendons, peripheral nerves and blood supply. This course is applied because special emphasis is put on various injuries, their mechanism, signs, symptoms and treatment. Lab involves 15-17 prosected cadavers. I supervise three teaching assistants who assist me in teaching the labs.
- Nervous System and Disorders, Department of Occupational Therapy and Bachelor of Health Science Program, College of Public Health and Health Professions, University of Florida, 1996-present. The course includes 3 hours of lecture and 2 hours of lab per week; there are three labs of 30 students each and thus the number of students is limited to 90. The first part of the course involves neuroanatomy with a focus on structure and function of various parts of the human brain. The lab for this portion involves human brain and spinal cord specimen. The second part of the course focuses on various disorders and conditions of the nervous system and the lab portion includes discussion and case studies. I supervise three teaching assistants who assist me in teaching the labs.
  - Pathophysiology for Rehabilitation, Bachelor in Health Science Program, College of Public Health and Health Professions, University of Florida, 2003-present. The course includes 3 hours of lecture a week (spring semester). The number of students ranges from 190 – 220. The course is system-based and includes review of physiology and the pathophysiology of specific body systems. I supervise a teaching assistant who assists in managing the course.
  - The three courses above are basic science courses for undergraduate students in the Bachelor of Health Science program. The students in this program are pre-OT, pre-PT, pre-PA, pre-med, pre-dental and pre-nursing students.
  - College Classroom Teaching, the Rehabilitation Science Doctorate Program, College of Public Health and Health Professions, University of Florida, 2009-present. This course includes 3 hours of lecture a week (fall semester). The number of students ranges from 5-12. In this course, PhD students learn to become teachers. It is the only didactic teaching course in this program. Students from other PhD programs in our College often receive permission to take the course.
  - Foundations of Occupational Therapy, Department of Occupational Therapy and Bachelor in Health Science Program, College of Public Health and Health Professions, University of Florida, 2008-present. I am the lead instructor of this course and I work with a co-instructor and supervise a teaching assistant who helps manage the course.
  - Musculoskeletal Disorders of the Upper Extremity, the Rehabilitation Science Doctorate Program, College of Public Health and Health Professions, University of Florida, 2002-2006.
  - Applied Research in Occupational Therapy, Department of Occupational Therapy, University of Florida, 1996-2005.
  - Individual Work in Occupational Therapy, Department of Occupational Therapy, College of Public Health and Health Professions, University of Florida, 1996-2005.
  - Research Project Supervision, Department of Occupational Therapy, College of Public Health and Health Professions, University of Florida, 1996-present.
  - Applied Kinesiology, Department of Occupational Therapy, College of Public Health and Health Professions, University of Florida, 1995-1998.

- Exercise Physiology Lab, Physical Education Department, Indiana University, 1985-1988.
- Conditioning and Fitness, Physical Education Department, Indiana University, 1985-1986.

## **GRANTS**

### **Funded:**

- Clinical and Translational Science Institute (CTSI) Clinical Pilot Award: “Grip Strength as a Proxy Measure of Health Status in Children”. PI - Orit Shechtman, \$19,637, 2018-2019.
- Clinical and Translational Science Institute (CTSI) Pilot and Collaborative Research Project Funding: “Wheelchair Ergonomic Hand Drive”. PI – Mark Tillman. 12/01/09 - 11/30/2010; \$24,756
- PHHP College Model Program Demonstration Projects Funding: “Identifying Critical Driving Errors from the Florida Traffic Crash Records Database to Inform Occupational Therapy Driving Practice.” PI- Orit Shechtman, January 2008-2009, \$20,000.
- University of Florida’s Age Network Multidisciplinary Research Enhancement Funding: “Medications and Older Drivers in Florida.” PI - Sherrilene Classen; April 2007-April 2008; Co-Investigator, \$5,500
- The American Society of Hand Therapist’ Evelyn Mackin Research Grant: “Using the force-time curve to identify maximal versus submaximal efforts in people with cumulative trauma disorders”. September 2006 – September 2007; PI, \$5,000.
- U.S. Department of Transportation Federal Highway Administration (FHWA): “Older Driver Infrastructure Research Project.” Project #: DOT DTFH61-03-H-00138. August 2003-September 2005; PI-William Mann, \$280, 000.00
- MD Systems, Inc, CardioGrip® Products: “Reliability, validity and norms for the DynEx™ electronic hand dynamometer”. January, 2003 – January, 2004; PI, \$6,000.
- The Research Opportunity Fund of The University of Florida “Identifying the level of effort during grip strength testing”, May 1, 2002 – April 30, 2003; PI, \$30,000.
- The Baltimore Therapeutic Equipment Company “Using the torque-velocity test of the BTE-Primus to measure sincerity of effort of elbow flexion”. April 2002 - March 2003; PI, \$5,000.
- The American Hand Therapy Foundation’s Annual Research Grant: The 2001 Dr. William Burkhalter Memorial Research Award: “Using the force-velocity test to measure sincerity of effort”. January, 2001 – January, 2002; PI, \$3000.00
- The Shands Hospital Occupational Therapy Small Grants Fund: “Evaluation of the Shands Ergonomics Program”. June 1997 - May 1998; Co-PI, \$ 8100.00
- The Shands Hospital Occupational Therapy Small Grants Fund: “Serial Casting of Digital Flexion Contractures in children with Juvenile Rheumatoid Arthritis”. June 1997 - May 1998; PI, \$ 4875.00
- The American Heart Association, Florida Affiliate, Post-Doctoral Fellowship, \$21,000.00; July 1989 - June 1990.
- The School of Health, Physical Education and Recreation Research Council, Student Research Fund, \$100.00 Indiana University, March 1988.

- Graduate School's Grant-in-Aid of Research for Doctoral Dissertation, \$500.00 Indiana University, October 1987.

### **OTHER SUPPORT**

- Thought Technology Ltd.: "Using the force-time curve to identify maximal versus submaximal efforts in people with cumulative trauma disorders"; Equipment award of FlexComp Infiniti with BioGraph Infiniti v3.0 Software September 2006; PI, \$7,500.
- The 2005-2006 Research Grant/Mentorship Opportunity Program, presented by the Graduate Student Council, University of Florida. Given to my doctoral student Bhagwant Sindhu for the project: "Use of the force-time curves and SEMG to detect sincerity of effort in patients with upper extremity musculoskeletal disorders and injuries"; Spring 2006; \$300.
- The Baltimore Therapeutic Equipment Co.: "Using the BTE to Measure Grip and Wrist Strength in Wheelchair Users". Equipment award BTE-Primus (\$45,000), July, 1999.

### **REFEREED PUBLICATIONS**

1. Zukowski LA, Hass CJ, **Shechtman O**, Christou EA, Tillman MD, 2017. "The effect of propulsion style on time spent in extreme wrist orientations after a bout of fatiguing propulsion." *Ergonomics*, 60(10):1425-1434.
2. Zukowski LA, Christou EA, **Shechtman O**, Hass CJ, Tillman MD., 2017. The Effect of Propulsion Style on Wrist Movement Variability during the Push Phase After a Bout of Fatiguing Propulsion. *Physical Medicine and Rehabilitation Journal (PM&R)*, 9(3): 265-274, 2017.
3. Zukowski LA, Roper JA, **Shechtman O**, Otzel DM, Hovis PW, Tillman MD. Wheelchair ergonomic hand drive mechanism use improves wrist mechanics associated with carpal tunnel syndrome. *Journal of Rehabilitation Research Development*; 51(10):1515–24, 2014.
4. Zukowski LA, Roper J, **Shechtman O**, Otzel DM, Bouwkamp J, Tillman MD. A Comparison of Metabolic Cost, Performance, and Efficiency of Propulsion Using an Ergonomic Hand Drive Mechanism and a Conventional Manual Wheelchair. *Archives of Physical Medicine and Rehabilitation*, 95:546-551, 2014.
5. **Shechtman, O**, Sindhu, BS, Davenport P. Using the "Visual Target Grip Test" to Identify Sincerity of Effort during Grip Strength Testing. *Journal of Hand Therapy*, 25(3): 320-329, 2012.
6. Sindhu, B.S., **Shechtman, O.**, Veazie, P.J. Identifying Sincerity of Effort Based on the Combined Predictive Ability of Multiple Grip Strength Tests. *Journal of Hand Therapy*, 25(3): 308-319, 2012.
7. Sindhu, B.S., **Shechtman, O.**, Tuckey, L.E. Validity, Reliability, and Responsiveness of a Digital Version of the Visual Analog Scale. *Journal of Hand Therapy*, 24(4): 356-363, 2011.
8. Seo, N.J., Sindhu, B.S., **Shechtman, O.** The influence of pain associated with musculoskeletal disorders on grip force timing. *Journal of Hand Therapy*, 24(4): 335-343, 2011.

9. Lehman, L.A., Woodbury, M., **Shechtman, O.**, Wang, Y-C., Pomeranz, J., Gray, D.B., & Velozo, C.A. Development of an Item Bank for a Computerized Adaptive Test of Upper Extremity Function. *Disability and Rehabilitation*, 33(21-22), 2092-2104, 2011.
10. **Shechtman, O.** Validation of driving simulators. *Advances in Transportation Studies: an international Journal*; 2010 Special Issue; pages 53-62. Printed July 2011.
11. Sindhu, B., **Shechtman, O.** Using the Force-Time Curve to Determine Sincerity of Effort in People with Upper Extremity Injuries. *Journal of Hand Therapy*, 24(1): 22-30, 2011.
12. Classen, S., **Shechtman, O.**, Joo, Y Awadzi, K.D., Lanford, D.N. Traffic violations vs. driving errors: Implications for older female drivers. *TRB Conference Proceedings 46: Women's Issues in Transportation, Vol. 1: Conference Summary and Plenary Papers; Vol. 2: Technical Papers Transportation Research Board*, 55-63, 2011.
13. Classen, S., Bewernitz, M., & **Shechtman, O.** Driving Simulator Sickness: An Evidence Based Review of Literature. *American Journal of Occupational Therapy*, 65(2), 179–188, 2011.
14. **Shechtman, O.**, Awadzi, K., Classen, S., Lanford, D., & Joo, Y. Validity and critical driving errors of on-road assessment for older drivers. *American Journal of Occupational Therapy* 64(2): 242:251, 2010.
15. Classen, S., **Shechtman, O.**, Awadzi, K., Lanford, D., & Joo, Y. Traffic Violations vs. Driving Errors: Informing Clinical Practice. *American Journal of Occupational Therapy* 64(2): 233:241, 2010.
16. Lehman, L.A., Sindhu, B.S., **Shechtman, O.**, Romero, S., Velozo, C.A. A comparison of the ability of two upper extremity assessments to measure change in function. *Journal of Hand Therapy*. 23(1), 31-40, 2010.
17. Classen, S., McCarthy, D.P., **Shechtman, O.**, Awadzi, K.D., Lanford, DN., Okun, M.S., Rodriguez, R.L., Romrell, J., Bridges, S., Kluger, B., & Fernandez, H.H. Useful Field of View as a Reliable Screening Measure of Driving Performance in People with Parkinson's Disease: Results of a Pilot Study. *Traffic Injury Prevention*, 10, 593-598, 2009.
18. Classen, S., **Shechtman, O.**, Stephens, B., Davis, E., Justiss, M., McCarthy, D., Mann, W. The impact of roadway intersection design of young and senior adults' driving performance in the recovery phase. *British Journal of Occupational Therapy*, 72 (11): 472-481, 2009.
19. **Shechtman, O.**, Classen, S., Stephens, B., Davis, E., Awadzi, K. & Mann, W. The impact of roadway intersection design on simulated driving performance of younger and older adults during recovery from a turn. *Advances in Transportation Studies: an International Journal*; 2008 Special Issue; pages 7-20. Printed in July 2009.
20. **Shechtman, O.**, Classen, S., Awadzi, K. & Mann, W. Comparison of driving errors between on-the-road and simulated driving assessment: A validation study. *Traffic Injury Prevention* 10(4): 379-385, 2009.
21. Classen, S., Horgas, A., Awadzi, K., Messinger-Rapport, B.M., **Shechtman, O.**, & Joo, Y. Clinical predictors of older driver performance on a standardized road test. *Traffic Injury Prevention*, 9:456–462, 2008.
22. **Shechtman, O.**, Goodall, S.K. The Administration and Interpretation of the Rapid Exchange Grip Test: A National Survey. *Journal of Hand Therapy*, 21(1): 18-27, 2008.



23. **Shechtman, O.**, Hope, L., Sindhu, B. Evaluation of the Torque-Velocity Test of the BTE-Primus as a Measure of Sincerity of Effort of Grip Strength. *Journal of Hand Therapy*, 20(4): 326-335, 2007.
24. Frease, L., Walker, K. **Shechtman, O.** Interrater reliability of the GREAT postural rating scale for therapeutic riding; 76-88, 2007. In: Engel, B.T. & MacKinnon, J.R. (editors): *Enhancing Human Occupation Through Hippotherapy*; AOTA press; Bethesda, MD, 2007.
25. **Shechtman, O.**, Sindhu, B., Davenport P (2007). Using the Force-Time Curve to Detect Maximal Grip Strength Effort. *Journal of Hand Therapy*, 19(1): 37-48, 2007.
26. **Shechtman, O.**, Classen, S., Stephens, B., Davis, E., Bendixen, R., Belchior, P., Sandhu, M., McCarthy, D., & Mann, W. The impact of intersection design on simulated driving performance of young and senior adults. *Traffic Injury Prevention*, 8, 1-18, 2007.
27. Classen, S., **Shechtman, O.**, Stephens, B., Davis, E., Bendixen, R., Belchior, P., Sandhu, M., Justiss, M., Posse, C., McCarthy, D., & Mann, W. The impact of roadway intersection design on driving performance of young and senior adults. *Traffic Injury Prevention*, 8, 1-10, 2007.
28. **Shechtman, O.**, Anton, S., Kanasky, W. F., Robinson, M.E. The Use of the Coefficient of Variation in Detecting Sincerity of Effort: a Meta-analysis. *Work*, 26(4):335-341, 2006.
29. Malcolm, M.P., Triggs, W.J., Light, K.E., **Shechtman, O.**, Khandekar, G., Gonzalez Rothi, L.G. Reliability of Motor Cortex Transcranial Magnetic Stimulation in Four Muscle Representations. *Clinical Neurophysiology* 117: 1037-1046, 2006
30. **Shechtman, O.**, Classen, S., Stephens, B., Davis, E., Bendixen, R., Belchior, P., Sandhu, M., McCarthy, D., Mann, W. The Impact of Intersection Design on Simulated Driving Performance of Young and Senior Adults: Preliminary Results. *Topics in Geriatric Rehabilitation*, 22: 1, 27-35, 2006.
31. Classen, S., **Shechtman, O.**, Stephens, B., Davis, E., Bendixen, R., Belchior, P., Sandhu, M., McCarthy, D., Mann, W. The Impact of Intersection Design on Simulated Driving Performance of Young and Senior Adults: Preliminary Results. *Topics in Geriatric Rehabilitation*, 22: 1, 18-26, 2006.
32. Stephens, B.W., McCarthy, D., Marsiske, M., **Shechtman, O.**, Classen, S., Justiss, M. and Mann, W.C. International Older Driver Consensus Conference on Assessment, Remediation and Counseling for Transportation Alternatives Summary and Recommendations. *Physical and Occupational Therapy in Geriatrics*, 23:103-121, 2005
33. **Shechtman, O.**, Gestewitz, L., Kimble, C. Reliability and Validity of the DynEx Dynamometer. *Journal of Hand Therapy*, 18(3): 339-347, 2005.
34. **Shechtman, O.**, Gutierrez, Z., Kokendofer, E. Analysis of methods used to detect submaximal effort with the five-rung grip strength test. *Journal of Hand Therapy*, 18(1): 10-18, 2005.
35. **Shechtman, O.**, Mann, W., Tomita, M, Justiss, M. Grip strength in the frail elderly. *The American Journal of Physical Medicine and Rehabilitation*, 83(11): 819-826, 2004.
36. Gutierrez, Z., **Shechtman, O.** The effectiveness of the five-handle position grip strength test in detecting sincerity of effort in men and women. *American Journal of Physical Medicine and Rehabilitation*, 82:847-855, 2003.

37. **Shechtman, O.**, Locklear, C. Moore, L., Hanson, C. The relationships between function, pain, and muscle strength in wheelchair users. *Occupational Therapy in Health Care*, 17 (1): 5-21, 2003.
38. **Shechtman, O.**, Davenport, R., Malcolm, M., Nabavi, D. Reliability and validity of the BTE-Primus grip tool. *The Journal of Hand Therapy*, 16(1):36-42, 2003.
39. Brunt D, Greenberg B, Wankadia S, Trimble MA, **Shechtman O.** The effect of foot placement on sit-to-stand in healthy young subjects and patients with hemiplegia. *Archives of Physical Medicine and Rehabilitation*, 83(7):924-929, 2002.
40. **Shechtman, O.**, Taylor, C. How do therapists administer the rapid exchange grip test? A survey. *The Journal of Hand Therapy*, 15(1):53-61, 2002.
41. Hanson, CS., **Shechtman, O.**, & Gardner-Smith, P. Ergonomics in a hospital and a university setting: The effect of worksite analysis on upper extremity work-related musculoskeletal disorders. *Work*, 16(3):185-200, 2001.
42. **Shechtman, O.**, Moore, L., Locklear, C. Using the BTE-Primus to measure grip strength in physically active wheelchair users: an exploratory study. *The American Journal of Occupational Therapy*, 55(4): 393-400; 2001.
43. **Shechtman, O.** The coefficient of variation as a measure of sincerity of effort of grip strength. Part 1: The statistical principle. *The Journal of Hand Therapy*, 14(3):180-187, 2001.
44. **Shechtman, O.** The coefficient of variation as a measure of sincerity of effort of grip strength. Part 2: Sensitivity and specificity. *The Journal of Hand Therapy*, 14(3):188-194, 2001.
45. **Shechtman, O.**, Hanson, C.S., Garrett, D., Dunn, P. Comparison of wheelchair cushions for effectiveness of pressure relief. *The Occupational Therapy Journal of Research*, 21(1): 29-48, 2001.
46. Taylor, C. & **Shechtman, O.** The use of the rapid exchange grip test in detecting sincerity of effort. Part I: The administration of the Rapid Exchange Grip Test. *The Journal of Hand Therapy*, 2000; 13:195-202.
47. **Shechtman, O.** & Taylor, C. The use of the rapid exchange grip test in detecting sincerity of effort. Part II: The validity of the rapid exchange grip test. *The Journal of Hand Therapy*, 2000; 13:203-210.
48. Venable, E., Hanson, C., **Shechtman, O.**, & Dasler, P. The effects of exercise on occupational functioning in the well elderly. *Physical and Occupational Therapy in Geriatrics*, 2000; 17(4):29-42.
49. Wickham, S.E., Hanson, C.S., **Shechtman, O.**, Ashton, C. Attitudes toward leisure and leisure motivation in adults with spinal cord injury. *Occupational Therapy in Health Care*, 2000; 12(4):33-50.
50. **Shechtman, O.** Using the coefficient of variation to detect sincerity of effort of grip strength: A literature review. *The Journal of Hand Therapy*, 13(1):25-32, 2000.
51. **Shechtman, O.** Is the coefficient of variation a valid measure for detecting sincerity of effort of grip strength? *Work*, 13(2):163-169, 1999.
52. **Shechtman, O.**, Zhongjie, S., Fregly, M.J., & Katovich, M.J. Increased tail artery vascular responsiveness to angiotensin II in cold-treated rats. *Canadian Journal of Physiology and Pharmacology*, 77 (12):974-979, 1999.

53. Hanson, C. S., **Shechtman, O.**, Foss, J.J. Future practice and training issues in the treatment of cognitive dysfunction in occupational therapy. *NeuroRehabilitation*, 8, 31-41, 1997.
54. Scahfer, V.A., Talan, M.I., **Shechtman, O.** The effect of exercise training on cold tolerance in adult and old C57BL/6J mice. *Journals of Gerontology Series A - Biological Sciences and Medical Sciences*, 51(1):B38-42, 1996.
55. Fregly, M.J., **Shechtman, O.**, Rowland, N.E. Increased dipsogenic responsiveness to angiotensin II in rats exposed to cold: rate of loss after return to thermoneutral ambient temperature. *Proceedings of the Society for Experimental Biology and Medicine*, 209(1):54-59, 1995.
56. **Shechtman, O.**, Talan, M.I. Effect of exercise on cold tolerance and metabolic heat production in adult and aged C57BL/6J mice. *Journal of Applied Physiology*, 77(5): 2214-2218, 1994.
57. Fregly, M.J., **Shechtman, O.** Direct blood-pressure measurements in rats during abrupt exposure to, and removal from, cold-air. *Proceedings of the Society for Experimental Biology and Medicine*. 205(2):119-123, 1994.
58. **Shechtman, O.**, Katovich, M.J. Sex-differences in vascular reactivity to adrenergic agents in the rat. *Comparative Biochemistry and Physiology A - Physiology*, 106(3):519-524, 1993
59. Van Bergen, P., Fregly, M.J., Rossi, F., & **Shechtman, O.** The effect of intermittent exposure to cold on the development of hypertension in the rat. *The American Journal of Hypertension*, 5(8):548-555, 1992.
60. Katovich, M.J., Pitman D., & **Shechtman, O.** Role of the adrenal gland in the thermal response to morphine withdrawal in rats. *The Canadian Journal of Physiology and Pharmacology*, 70(8):1090-1095, 1992.
61. Fregly, M.J., **Shechtman, O.**, Van Bergen, P., Reeber C. and Papanek, P.E. Changes in blood pressure and dipsogenic responsiveness to angiotensin II during chronic exposure of rats to cold. *Pharmacology Biochemistry and Behavior*, 38:837-842, 1991.
62. **Shechtman, O.**, Fregly, M.J., Van Bergen, P. Papanek, P.E. Prevention of cold-induced increase in blood pressure of rats by captopril. *Hypertension*, 17:763-770, 1991.
63. **Shechtman, O.**, Papanek, P.E., & Fregly, M.J. Factors affecting cold-induced hypertension in rats. *Proc. Soc. Exper. Biol.*, 195:364-368, 1990.
64. **Shechtman, O.**, Papanek, P.E. & Fregly, M.J. Reversibility of Cold-Induced Hypertension After Removal of Rats From Cold. *The Canadian Journal of Physiology and Pharmacology*, 68:830-835, 1990.

## **BOOK CHAPTERS**

1. **Shechtman, O.** The Coefficient of Variation as an Index of Measurement Reliability. In: Doi, S.A.R. & Williams, G.M. (Eds.): *Methods of Clinical Epidemiology 2<sup>nd</sup> Edition*. In review. Springer Series on Epidemiology and Public Health, 2018, pp. TBA.
2. **Shechtman, O.** The Coefficient of Variation as an Index of Measurement Reliability. In: Doi, S.A.R. & Williams, G.M. (Eds.): *Methods of Clinical Epidemiology*. Springer Series on Epidemiology and Public Health, 2013, pp. 39-49.
3. **Shechtman, O.** and Sindhu, B.S: Grip Strength. In: American Society of Hand Therapists Clinical Assessment Recommendations, Editor: McDermid, J. An Electronic

Book Chapter. Retrieved on 9/26/2013 from:

<http://www.asht.org/sites/default/files/downloads/2013/asht-13-cabooks-02-grip.pdf>.

4. Katovich, M.J., **Shechtman, O.**, & Hanley, K. Role of calcium in an animal model for the hot flush. In: Lomax & Schonbaum (eds.) *Thermoregulation: The Pathophysiological Basis of Clinical Disorders*, Karger, Basel 1992.

### **OTHER PUBLICATIONS**

1. **Shechtman, O.** Book review (Portney L.G. and Watkins M.P. *Foundations of Clinical Research: Applications to Practice*; 2<sup>nd</sup> edition. Upper Saddle River, NJ: Prentice Hall, 2000). *Journal of Hand Therapy*, 14(3):221, 2001.
2. **Shechtman, O.** Readers Write: Response to readers' questions. *The Journal of Hand Therapy*, 15(3): 301-302, 2002.

### **PUBLISHED ABSTRACTS**

1. Shechtman, O., Hope, L. M., & Sindhu, B. S. (2006). Using the Torque-Velocity Test of the BTE-Primus to Measure Sincerity of Effort of Grip Strength. *Journal of Hand Therapy*, 19(4), 440-441.
2. Shechtman, O. Additional empirical evidence against using the coefficient of variation as a measure of sincerity of effort of grip strength. *Journal of Hand Therapy*, 14(3):233-234, 2001.
3. Fregly, M.J., Shechtman, O., Vanbergen, P., Reeber, C., Papanek, P.E. changes in blood-pressure and dipsogenic responsiveness to angiotensin-II during chronic exposure of rats to cold. *FASEB Journal*, 5(4):A394, 1991.
4. Shechtman, O., Katovich, M.J., Vanbergen, P. Vascular reactivity in the cold-induced hypertensive rat. *FASEB Journal*, 5 (4):A852, 1991.
5. Shechtman, O., Elizondo, R.S., Taylor, M.W. Acute exercise and passive hyperthermia augment interferon gamma induction. *FASEB Journal*, 2(4):A521, 1988.

### **PRESENTATIONS**

1. Schneider, M.K., Myers, C.T., Morgan-Daniel, J., & Shechtman, O. A Scoping Review of the Relationship between Grasp and Handwriting Performance in School-Age Children. Presented at the AOTA national conference in April, 2019.
2. Schneider, M.K., Myers, C.T, & **Shechtman, O.** (2018, April). *Development of the DynEx Dynamometer Handle Adapter for Children*. Poster presentation, College of Public Health and Health Professions Research Day, University of Florida, Gainesville.
3. Domfort, S., Schneider, M.K., Farley, K., Myers, C.T, & **Shechtman, O.** (2018, April). *The Effect of Repeated Grip Strength Trials on Fatigue in Children: A Pilot Study*. Poster presentation, College of Public Health and Health Professions Research Day, University of Florida, Gainesville, FL.
4. Farley, K., Schneider, M.K., Domfort, S., Myers, C.T, & **Shechtman, O.** (2018, April). *The Effect of Handle Position and Hand Size on Grip Strength in Children: A Pilot Study*. Poster presentation, College of Public Health and Health Professions Research Day, University of Florida, Gainesville, FL.
5. Schneider, M.K., **Shechtman, O.**, & Myers, C.T. (2017, November). *A Review of the Relationship between Grasp and Handwriting Performance in School-Age Children*.

- Poster presentation, Florida Occupational Therapy Association Annual Conference, Orlando, FL.
6. Schneider, M.K., **Shechtman, O.**, & Myers, C.T. *Grip strength as a proxy marker in children.* Poster presentation, Institute for Child Health Policy Research Day, University of Florida, Gainesville, FL; April 20 2017
  7. Schneider, M.K., **Shechtman, O.**, & Myers, C.T. *A scoping literature review on grip strength norms in children.* Poster presentation, College of Public Health and Health Professions Research Day, University of Florida, Gainesville, FL; April 12, 2017
  8. Shechtman, O. & Blue, A. Panel Presentation: *Culture of Diversity and Inclusiveness: Successes and Way Forward* representing the College of Public Health and Health Professions. University of Florida Health Science Center 2<sup>nd</sup> Annual Diversity and Inclusion Forum, Gainesville, FL; April 5, 2017.
  9. Shechtman, O. & Struckmeyer, L. *Teaching Activity Analysis Using Blended Learning and Active Learning Techniques.* Poster presented at the American Occupational Therapy Association Annual Conference and Centennial Presentation, Philadelphia, PA; April 1, 2017
  10. Shechtman, O. *Teaching Cultural Competence to Masters of Occupational Therapy Students.* Poster presented at the College of Public Health and Health Professions Diversity Day, Gainesville FL; January 19, 2017.
  11. Hovis PW, Zukowski LA, Roper JA, Otzel DM, **Shechtman O**, Roemmich RT, Tillman, MD. "Shoulder Pain and Interlimb Coordination during Conventional and Ergonomic Hand Drive Manual Wheeling." Poster presented at the American College of Sports Medicine Annual Meeting in Indianapolis, IN; May 28 - June 1, 2013.
  12. Tillman, MD, Hovis PW, Zukowski LA, Roper JA, Otzel DM, **Shechtman O**, Roemmich RT, "Does Mode of Wheelchair Propulsion Influence Interlimb Wrist Coordination?" Poster presented at the American College of Sports Medicine Annual Meeting in Indianapolis, IN; May 28 - June 1, 2013.
  13. Shechtman, O. Peripheral nerve patho-anatomy. Instructional course presented at the American Society of Hand Therapists' 34<sup>th</sup> Annual Meeting; October 20, 2012, San Diego, CA.
  14. Shechtman, O., Sindhu, B. Identifying Sincerity of Effort Based on the Combined Predictive Ability of Multiple Grip Strength Tests. Paper presented at the American Society of Hand Therapists' 34<sup>th</sup> Annual Meeting; October 19, 2012, San Diego, CA.
  15. Sindhu, B.S., **Shechtman, O.** Effect of Verbal Instructions On Submaximal Grip Effort. Paper presented at the American Society of Hand Therapists' 34<sup>th</sup> Annual Meeting; October 19, 2012, San Diego, CA.
  16. Zukowski LA, Roper J, Otzel DM, Hovis P, **Shechtman O**, Tillman MD. "A Re-analysis of Wrist Jerk during Ergonomic Hand Drive Wheelchair Propulsion." Poster presented at the 2012 American Society of Biomechanics Annual Meeting, August 2012, Gainesville, FL.
  17. Hovis P, Zukowski LA, Roper JA, Otzel D, **Shechtman O**, Bishop M, Tillman MD. "Pain During Ergonomic Hand Drive Wheelchair Propulsion." Poster presented at the American Society of Biomechanics Annual Meeting, August 2012, Gainesville, FL.
  18. Zukowski LA, Roper J, Otzel DM, Hovis P, **Shechtman O**, Tillman MD. "Wheelchair Propulsion Using an Ergonomic Hand Drive Mechanism Reduces Wrist Jerk

- Throughout Range of Motion.” Poster presented at the American College of Sports Medicine Annual Meeting, June 2012, in San Francisco, CA.
19. Tillman MD, Zukowski LA, Hovis P, Otzel DM, Roper J, **Shechtman O**. “Kinematics of the Shoulder Complex during Ergonomic Hand Drive Wheelchair Propulsion: Shoulder Impingement Implications.” Poster presented at the American College of Sports Medicine Annual Meeting, June 2012, in San Francisco, CA.
  20. Hovis P, Zukowski LA, Roper J, Otzel DM, **Shechtman O**, Tillman MD. “Reliability of Motion Capture Shoulder Kinematics in Wheelchair Propulsion Utilizing an Ergonomic Hand Drive.” Poster presented at the American College of Sports Medicine Annual Meeting, June 2012, in San Francisco, CA.
  21. Shechtman, O., Sindhu, B. The Effects of Upper Extremity Injury on Maximal Grip Effort. Paper presented at the American Society of Hand Therapists’ 33<sup>rd</sup> Annual Meeting; September 23, 2011, Nashville, TN.
  22. Sindhu, B.S., **Shechtman, O**. Validity, Reliability, and Responsiveness of A Digital Version Of The Visual Analog Scale For Measuring Pain Intensity. Paper presented at the American Society of Hand Therapists’ 33<sup>rd</sup> Annual Meeting; September 23, 2011, Nashville, TN.
  23. Zukowski LA, Roper J, Otzel DM, Bouwkamp J, **Shechtman O**, Tillman MD. (2011, June). “Metabolic Cost of Wheelchair Propulsion Using an Ergonomic Hand Drive.” Poster presented at the 2011 American College of Sports Medicine Annual Meeting. Denver, CO.
  24. Tillman, MD, Zukowski LA, Otzel DM, Roper J, Bouwkamp J, and **Shechtman O**. (2011, June). “Upper Extremity Kinematics During Ergonomic Hand Drive Wheelchair Propulsion.” Poster presented at the 2011 American College of Sports Medicine Annual Meeting. Denver, CO.
  25. Tillman MD, Zukowski LA, Otzel DM, Roper J, Bouwkamp J, Hovis P, **Shechtman O**. (2011, June). “Kinematics During Ergonomic Hand Drive Wheelchair Propulsion.” Poster presented at the 2<sup>nd</sup> Annual CTSI Trainee and Pilot Award Research Day. Gainesville, FL.
  26. Tillman MD, Zukowski LA, Otzel DM, Roper J, Bouwkamp J, Hovis P, **Shechtman O**. (2011, June). “Kinematics During Ergonomic Hand Drive Wheelchair Propulsion.” Poster presented at the 2011 Neuromuscular Plasticity Symposium. Gainesville, FL.
  27. Zukowski LA, Roper J, Otzel D, Bouwkamp J, **Shechtman O**, Tillman MD. (2011, June). “Wheelchair Performance and Efficiency Using an Ergonomic Hand Drive Mechanism.” Poster presented at the 2011 Neuromuscular Plasticity Symposium. Gainesville, FL.
  28. Shechtman O. A method for validating driving simulators: comparing driving errors with on-road assessment. Key Note presentation, STISIM User’s Conference October 5<sup>th</sup>, 2010, St. Petersburg, FL.
  29. Shechtman, O, Bewernitz, M., and Classen, S. Using the Simulator Sickness Questionnaire (SSQ) to predict Simulator Sickness. Abstract accepted to STISIM User’s Conference October 5<sup>th</sup>, 2010, St. Petersburg, FL.
  30. Shechtman, O., Awadzi, K. D., and Parker, K. E. The Use of Extended Receiving Lane during Simulated Driving. Abstract accepted to STISIM User’s Conference October 4<sup>th</sup>, 2010, St. Petersburg, FL.

31. Classen, S., Shechtman, O., Joo, Y., Awadzi, K., Lanford, D.N. Traffic violation vs. driving errors: Implications for older female drivers. Fourth International Conference on Women's Issues in Transportation. Transportation research Board. October 27-30, 2010. Irvine, California.
32. Classen, S., Lanford, D.N., **Shechtman, O.**, Velozo, C., Shold Davis, E., Bedard, M., & Winter, S. Pre-Conference Institute: Driving and Community Mobility: Informing and modeling an emerging practice with evidence to meet societal need. 90th American Occupational Therapy Annual Conference. April 28, 2010: Orlando, Florida
33. Bewernitz, M., **Shechtman, O.**, & Classen, S. The Simulator Sickness Questionnaire as a predictor of subsequent simulator sickness. Paper presented at the Gerontological Society of America's 62<sup>nd</sup> Annual Scientific Meeting. November 18-22, 2009: Atlanta, GA.
34. Shechtman, O., Sindhu, B. Using the Force-Time Curve to Identify Maximal versus Submaximal Efforts in People with Upper Extremity Injuries. Paper presented at the American Society of Hand Therapists' 32nd Annual Meeting; September 4, 2009, San Francisco, CA.
35. Sindhu, B., **Shechtman, O.** Using the surface electromyographic signal to identify maximal versus submaximal efforts in people with upper extremity injuries. Paper presented at the American Society of Hand Therapists' 32nd Annual Meeting; September 4, 2009, San Francisco, CA.
36. Classen, S., **Shechtman, O.**, Okun, M.S., & Fernandez, H.H. Useful Field of View as a Reliable Screening Measure of Driving Performance in People with Parkinson's Disease: Results of a Pilot Study. Abstract accepted on 03/10/09 by the *Movement Disorder Society's* 13th International Congress of Parkinson's Disease and Movement Disorders, Paris, France, June 7-11, 2009.
37. Shechtman, O. Anatomy review for therapists. Invited Presentation to the Gainesville Hand Therapy Club, March 19, 2009.
38. Classen, S., Awadzi, K.D., **Shechtman, O.**, Joo, Y. Paper presentation: "Older driver traffic violations vs. driving errors: Informing clinical practice. Maryland Older Driver Research Consortium, January 15, 2009, A111/A113, Academic Building, Maritime Institute, Baltimore, MD.
39. Classen, S., **Shechtman, O.**, Awadzi, K.D., Joo, Y. Paper presentation: "Driving errors between men and women. Implications for practice and strategies to help prevent them". Workshop: "Enhancing Older Women's Safe mobility: Extending time and amount they drive" Transportation Research Board's 88<sup>th</sup> Annual Meeting. January 13, 2009, Marriot Park Truman Room, Washington DC.
40. Tuckey, L.E., Sindhu, B. S., **Shechtman, O.** Validity of the digital visual analog scale in upper extremity pain ratings. Poster presented at the College of Public Health and Health Professions 21st Annual Research Fair, University of Florida, Gainesville, FL, April 4, 2008.
41. Parker, K., Awadzi, K.D., **Shechtman, O.** The use of the extended receiving lane by younger and older drivers during simulated driving. Poster presented at the College of Public Health and Health Professions 21st Annual Research Fair, University of Florida, Gainesville, FL, April 4, 2008.
42. Classen, S., Horgas, A., Awadzi, K.D., Messinger-Rapport, B.J., Joo, Y., **Shechtman, O.** Clinical Predictors of Failing a Standardized Road Test. Poster presented (Poster

- C127) at the American Geriatrics Society Annual Scientific Meeting. April 30-May 4, 2008: Washington, DC.
43. Shechtman, O., Woodbury M., Day T., Slattery, J. The Complete Shoulder: From the Anatomy Lab to the Neuro and Ortho Clinics. Continuing education course, University of Florida, Gainesville, FL, March 6-9, 2008.
  44. Classen, S., Horgas, A., Messinger-Rapport, B.M., **Shechtman, O.**, Awadzi, K.D., & Joo, Y. Medications as predictors of driving performance. Paper accepted for presentation at the International Conference on Aging, Disability and Independence. February 20-23, 2008, St. Petersburg, FL.
  45. Shechtman, O. Identifying full versus low grip strength effort. Invited presentation at the American Society for Surgery of the Hand: Electives in Hand surgery meeting; February 9, 2008; New Orleans, LA.
  46. Shechtman O, Sindhu BS, Davenport PW. Using the "Visual Target Grip Test" to identify the level of effort during grip strength. Paper presented at: ASHT'S 30TH Annual Meeting; October 4-7, 2007, 2007; Phoenix, AZ.
  47. Sindhu, B. S., **Shechtman, O.**, Davenport, P. W. Identifying submaximal effort during grip strength testing. Paper presented at the College of Public Health and Health Professions 20th Annual Research Fair, University of Florida, Gainesville, FL, April 12, 2007.
  48. Classen, S., **Shechtman, O.**; Stephens, B., Davis, E., Bendixen, R., Belchior, P., Sandhu, M., Justiss, M., Posse, C., McCarthy, D., Mann, W. The Impact of Roadway Intersection Design on Driving Performance of Young and Senior Adults. Poster presentation at the Gerontological Society of America's 59th Annual Scientific Meeting Dallas, TX, November 16-23, 2006.
  49. O. Shechtman. Simulated driving performance of young and senior adults in improved intersections. Invited lecture at the Transportation Research Center, University of Florida; November 14, 2006.
  50. O. Shechtman, S. Classen, B. Stephens, E. Davis, R. Bendixen, P. Belchior, M. Sandhu, D McCarthy, and W. Mann. The impact of intersection design on simulated driving performance of young and senior adults. 4th Annual STISIM Drive User Group Meeting: New Approaches to Simulation and the Older Operator, Boston, MA, October 27, 2006.
  51. Shechtman, O., Hope, L., Sindhu B.S. Using the Torque-Velocity Test of the BTE-Primus to Measure Sincerity of Effort of Grip Strength. American Society of Hand Therapists 28th Annual Meeting, Atlanta, GA, September 15, 2006.
  52. Shechtman, O. 60 Pearls in 60 Minutes: Research Tips and Tricks. The "Measurement Research" part of a panel. American Society of Hand Therapists 28th Annual Meeting, Atlanta, GA, September 16, 2006.
  53. Shechtman, O. Anatomy review. Invited Presentation to the Gainesville Hand Therapy Club, April 5, 2006.
  54. Shechtman, O., Classen, S. The Impact of Intersection Design on Simulated Driving Performance of Young and Senior Adults: Preliminary Results. ICAIDI, St. Petersburg, FL, February 4, 2006.
  55. Classen, S., **Shechtman, O.** The Impact of Intersection Design on Driving Performance of Young and Senior Adults: Preliminary Results. ICAIDI, St. Petersburg, FL, February 3, 2006.



56. Shechtman, O. "Sincerity of effort". Invited presentation. Israel Society for Surgery of the Hand Annual Meeting. Tel Aviv, Israel, December 22, 2005.
57. Shechtman, O. "Grip strength measurements and sincerity of effort". Invited presentation. The Chaim Sheba Medical Center, Affiliated to the Tel-Aviv University Sackler School of Medicine, Tel-Hashomer, Israel, December 20, 2005.
58. Shechtman, O., Sindhu B.S., Davenport, P. Using the Force-Time Curve to Detect Submaximal Grip Strength Effort. American Society of Hand Therapists 28th Annual Meeting, San Antonio, TX, September 22, 2005.
59. Shechtman, O., Goodall, S.K. A National Survey of Therapists on the Administration and Interpretation of the Rapid Exchange Grip Test. American Society of Hand Therapists 28th Annual Meeting, San Antonio, TX, September 22, 2005.
60. Shechtman, O., Holt, K.D. Test-retest Reliability of Isometric Elbow Flexion Using the BTE-Primus; a poster presentation. American Society of Hand Therapists 28th Annual Meeting, San Antonio, TX, September 22, 2005.
61. Shechtman, O. Tendons: Structure, Pathophysiology, and Healing (instructional presentation). American Society of Hand Therapists 27th Annual Meeting, Charlotte, NC, October 24, 2004.
62. Shechtman, O. Reliability and validity of the DynEx dynamometer. American Society of Hand Therapists 27th Annual Meeting, Charlotte, NC, October 22, 2004.
63. Shechtman, O. Methods used to detect submaximal effort with the five-rung grip strength test. American Society of Hand Therapists 27th Annual Meeting, Charlotte, NC, October 22, 2004.
64. Shechtman, O., Aaron, D. Nerves and Tendons: from basic science to clinical management. A continuing education workshop. Gainesville, FL, July 30-31, 2004.
65. Sindhu B.S., **Shechtman**, O., Davenport, P. The use of the force-time curve to distinguish between sincere and insincere grip strength efforts. A poster presentation. The American Occupational Therapy Association (AOTA) 84<sup>th</sup> Annual Conference. Minneapolis, MN, May 22, 2004.
66. Sindhu B.S., **Shechtman**, O., Davenport, P. Identification of force-time curve characteristics associated with insincere grip effort. The College of Public Health and Health Professions Research Day. April, 2004.
67. Shechtman, O. "Peripheral injuries: science, physiology and pathology". Invited presentation. Texas Woman's University and the American Society for Hand Therapists: 1<sup>st</sup> annual Hand Conference and Research Seminar. March 6, 2004.
68. Shechtman, O.; Aaron, D. "Tendons from basic science to clinical management". Invited presentation for the Occupational Therapy Association of California (OTAC) Annual Conference. Sacramento, CA; November 8, 2003.
69. Sindhu, B., **Shechtman**, O., Davenport, P. "Measurement of sincerity of effort in grip strength tests: instrumentation to improve outcome of work related musculoskeletal disorder rehabilitation". The 26th International Conference on Technology & Disability: Research, Design, Practice, & Policy of the Rehabilitation Engineering And Assistive Technology Society Of North America (RESNA) Atlanta, GA; June 22, 2003.
70. Shechtman, O., Aaron, D. Advanced Course in Hand Rehabilitation. Invited workshop presentations for the Israeli Society of Occupational Therapy. Tel Aviv, Israel; December 23-25, 2002.

71. Shechtman, O. The motor unit: a connection between the central and peripheral nervous systems. Invited Presentation, Neuroscience of Human Occupation Course, University of Florida Distance Learning Master's Program in Occupational Therapy, September 27, 2002.
72. Shechtman, O., Mann, W.C., Tomita, M. Grip strength in the frail elderly. The 13<sup>th</sup> World Federation of Occupational Therapists (WFOT) World Congress, Stockholm, Sweden, June 26, 2002.
73. Shechtman, O. Strength and function in people with syringomyelia after neural transplantation. The American Occupational Therapy Association (AOTA) Annual Conference. Miami, FL, May 4, 2002.
74. Shechtman, O, Taylor, C. How do therapists administer the rapid exchange grip test? A survey. American Society of Hand Therapists 24th Annual Meeting, Nashville, TN, October 5, 2001.
75. Shechtman, O. Normative study of grip strength using the BTE-Primus grip tool. American Society of Hand Therapists 24th Annual Meeting, Nashville, TN, October 5, 2001.
76. Shechtman, O. Upper extremity anatomy review. Invited Presentation to the Gainesville Hand Therapy Club, October 30, 2001.
77. Shechtman, O. Understanding research in hand therapy. Invited Presentation to the Gainesville Hand Therapy Club, March 27, 2001.
78. Shechtman, O. Anatomy review of the upper quadrant. Invited Presentation to the Gainesville Hand Therapy Club, November 2, 2000.
79. Shechtman, O. Additional empirical evidence against using the coefficient of variation as a measure of sincerity of effort of grip strength. American Society of Hand Therapists 23rd Annual Meeting, Seattle, WA, October 5, 2000.
80. Shechtman, O. The Rapid Exchange Grip Test as a Measure of Sincerity of Effort of Grip Strength. Invited Presentation to the VAMC-Gainesville Rehab Staff, January 27, 2000.
81. Shechtman, O. The Coefficient of Variation as a Measure of Sincerity of Effort of Grip Strength. Invited Presentation to the VAMC-Gainesville Rehab Staff, January 13, 2000.
82. Shechtman, O. Measuring Sincerity of Effort of Grip Strength. Keynote speaker at the Fourth Annual Alice C. Jantzen Symposium at the University of Florida, Gainesville, FL; December, 9, 1999.
83. Shechtman O. Clinician/Educator Partnership in Research. A presentation at a fieldwork educator's workshop at the University of Florida, Gainesville, FL, October 16, 1999.
84. Shechtman O. The Coefficient of Variation. A presentation at the Florida Hand Society Meeting, Orlando, FL, May 14, 1999.
85. Shechtman, O. & Hanson, C. Clinician and academician collaboration: Outcomes research in physical dysfunction. A short course presentation at the American Occupational Therapy Association Annual Meeting, Indianapolis, IN, April 16, 1999.
86. Shechtman, O. The use of the coefficient of variation in detecting sincerity of effort. A research poster presentation at the World Federation of Occupational Therapy 1998 Congress in Montreal, Canada, June 3, 1998.

87. Shechtman, O. The use of rapid exchange grip to determine sincerity of effort in patients with carpal tunnel syndrome. A research poster presentation at the American Occupational therapy Association (AOTA) Annual Meeting, Baltimore, MD April 3, 1998.
88. Shechtman, O. Early versus delayed mobilization after carpal tunnel release. A research poster presentation at the American Occupational therapy Association (AOTA) Annual Meeting, Orlando, FL April 13, 1997.
89. Shechtman, O. Cold-Induced Hypertension. A guest lecture at the Gerontology Research Center, National Institute on Aging, Baltimore, MD; October, 1991.
90. Shechtman, O. Vascular Reactivity to Angiotensin-II in Cold-Treated Rat. Excellence of Research Poster Competition, College of Pharmacy, University of Florida, April 16, 1991.
91. Shechtman, O. Exercise Augments Interleukin-2 Induction. A presentation at the American College of Sports Medicine National Convention, Dallas, May 25-28, 1988.
92. Shechtman, O. The Effect of Exercise on Interferon-gamma Induction. The Interagency Research Council Meeting, October 2, 1987. Purdue University, West Lafayette, Indiana.

## **GRADUATE STUDENTS RESEARCH PROJECTS:**

### *Doctoral Dissertations - Committee Chair:*

- Effect of Upper Extremity injury on Grip Strength effort. Bhagwant Sindhu, RSD-OT Committee Chair, 2003-2007.
- The reliability and utility of transcranial magnetic stimulation to assess activity-dependent plasticity in human stroke. Matt Malcolm, RSD-OT Committee co-chair, 1999-2003.

### *Doctoral Dissertations - Committee Member:*

- Examining the impact of neuropsychiatric symptoms on caregiver well-being. Paul Arthur, RSD-OT student, 2016
- Wrist Movement Features Associated with Wheelchair Propulsion Styles and the Relationship to Propulsion Performance, Lisa Zukowski, HHP-PhD student, 2014.
- Non-Invasive Monitoring of Muscle Response to Disease Progression and Therapeutic Interventions in Duchenne Muscular Dystrophy Using MRI and MRS. Ishu Arpan, RSD-PT student, 2014.
- Non-Invasive Monitoring of Disease Progression in Duchenne Muscular Dystrophy. Ravneet Vohra, RSD-PT student, 2012.
- Presence, Assessment and Plasticity of Descending Pathways after Spinal Cord Injury. Martina Spiess, RSD-PT student, 2012.
- Respiratory Muscle Overload Training and Diaphragm Remodeling. Barbara Smith RSD-PT student, 2010.
- Impact of Viral Mediated Insulin-Like Growth Factor I on Skeletal Muscle Following Cast Immobilization. Fan Ye, RSD-PT student, 2010.
- Physiological Stress during Failed Spontaneous Breathing Trials in Prolonged Mechanical Ventilation Patients. Harshavardhan Deoghare, RSD-PT student, 2010.
- Neuroplasticity in the phrenic motor system: intermittent hypoxia, spinal cord injury, and stem cell transplantation. Milapjit Sandhu, RSD-PT student, 2010.
- Breakdown Probability Model at Freeway-Ramp Merges Based on Driver Behavior, Alexandra Kondyli Engineering PhD student, 2009.
- A lane-changing model for urban arterial streets. Daniel(Jian) Sun, Engineering PhD student, 2009.
- Responsiveness Comparison of Two Upper-Extremity Outcome Measures. Leigh Lehman. RSD-OT student, 2008.
- Adaptations in skeletal muscle following spinal cord injury and locomotor training. Min Liu, RSD-PT student 2006.
- Generalization of repetitive rhythmic bilateral training. Claudia Senesac, RSD-PT student, 2006.
- Effect of jaw and tongue position on suprahyoid muscle function during swallowing. Lori Fitsimones, RSD-CD Committee member, student, 2005.
- Adaptations in skeletal muscle during cast immobilization and rehabilitation in an animal model. Tiffany Frimel, RSD-PT doctoral student, 2004.
- Expiratory muscle strength training in individuals with multiple sclerosis and healthy controls. Toni Chiara, RSD-PT doctoral student, 2003.

- Afferent mechanisms in the perceptual and RREP response to inspiratory resistive loads. Weiying Zhao, Physical Therapy Doctoral Student, 2002.
- Respiratory sensation in normal subjects: the relationship between inspiratory motor drive and perception during resistive loading and pressure threshold loading. Chien Hui Huang, Physical Therapy Doctoral Student, 2002.
- Depression and Clinical Pain Perception. John Otis, Clinical Psychology Doctoral Student, 2000.
- Sex and Gender: Relative contribution to cardiovascular reactivity and experimental pain report. Cynthia D. Myers, Clinical Psychology Doctoral Student, 1998-1999.

*Master's Thesis and Research Project: - Committee Chair:*

- Establishing Norms on the DynEx digital dynamometer. Christine Janaro, Occupational Therapy Masters Student. Committee Chair, 2002-2003.
- Validity and Reliability of the DynEx digital dynamometer. Lisa Gestewitz, Occupational Therapy Masters Student. Committee Chair, 2002-2003.
- Sincerity of effort of elbow flexion on the BTE-Primus. Kathy Kilar, Occupational Therapy Masters Student. Committee Chair, 2002-2003.
- Detecting sincerity of effort of elbow flexion using BTE=Primus. Rebecca Kobernic, Occupational Therapy Masters Student. Committee Chair, 2001-2002.
- How do therapists administer the rapid exchange grip test? A nation-wide survey. Sara Goodall, Occupational Therapy Masters Student. Committee Chair, 2001-2002.
- Detecting sincerity of effort using the rapid exchange grip test. Emily Kokendoffer, Occupational Therapy Masters Student. Committee Chair, 2001-2002.
- The effectiveness of the five-rung grip test in detecting sincerity of effort. Zeida Gutierrez, Occupational Therapy Masters Student. Committee Chair, 2001-2002.
- Grip strength of wheelchair users. Tara Donohue, Occupational Therapy Masters Student. Committee Chair, 2001-2002.
- Determining sincerity of effort of grip strength on the BTE-Primus. Lisa Hope, Occupational Therapy Masters Student. Committee Chair, 2000-2001.
- The effectiveness of the five-rung grip test in detecting full effort. Dorothy Chiu, Occupational Therapy Masters Student. Committee Chair, 2000-2001.
- The effectiveness of the rapid exchange grip test in detecting full effort. Huang Tran, Occupational Therapy Masters Student. Committee Chair, 2000-2001.
- Low weight infants and transportation child restraints. Brianna L. Nipper, Occupational Therapy Masters Student. Committee Chair, 2000-2001.
- Using the BTE-Primus to measure static and dynamic wrist flexion strength in physically active wheelchair users: a preliminary investigation. Catherine Locklear, Occupational Therapy Masters Student. Committee Chair, 1999-2000.
- Using the BTE to measure grip strength in physically active wheelchair users: an exploratory study. Leanne Moore, Occupational Therapy Masters Student. Committee Chair, 1999-2000.
- A comparative study of grip strength testing using the BTE-Primus and the Jamar Dynamometer. Rick Davenport, Occupational Therapy Masters Student. Committee Chair, 1999-2000.

- Standardizing the protocol of the Rapid Exchange Grip Test. Catherine Taylor, Occupational Therapy Masters Student. Committee Chair, 1998-99.
- The Use of the Coefficient of Variation in Conjunction with the Rapid Exchange Grip Test in Detecting Sincerity of Effort. Eduardo Vergara, Occupational Therapy Masters Student. Committee Chair, 1998-99.
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- Functional status and task modifications for patients after carpal tunnel release surgery. Martha W. Eversberg, Occupational Therapy Masters Student. Committee Chair, 1996-97.

*Master's Thesis and Research Project: - Committee Member:*

- The effects of different practice conditions on learning an occupationally embedded task. Rebecca Woodford, Occupational Therapy Masters Student. Committee Member, 1999-2000.
- The effect of varying foot placement on muscle activation and limb loading characteristics of the involved limb in hemiplegia during sit-to-stand. Charmin Wakadia, Physical Therapy Masters Student. Committee Member, 1999-2000.
- The effect of altered unilateral foot placement on muscle activation and limb loading during sit-to-stand. Brigid Greenberg, Physical Therapy Masters Student. Committee Member, 1999-2000.
- Attitudes toward Leisure and Leisure Motivation in Adults with Spinal Cord Injury: An Occupational Therapy Perspective. Sarah E. Wickham, Occupational Therapy Masters Student. Committee Member, 1998-99.
- The Effects of Exercise on Occupational Functioning in the Well Elderly. Emily D. Venable, Occupational Therapy Masters Student. Committee Member, 1998-99.
- Comparison of Wheelchair Cushions for Effectiveness of Pressure Relief. Donna Garrett, Occupational Therapy Masters Student. Committee Member, 1997-98.
- The treatment of rotator cuff pathology by occupational therapists. Jamie Hoffman, Occupational Therapy Masters Student. Committee Member, 1996-97.

*Undergraduate Honors Thesis: Committee Chair:*

- The Effect of Repeated Grip Strength Trials on Fatigue in Children: A Pilot Study; Shannon Domfort, 2018
- The Effect of Handle Position and Hand Size on Grip Strength: A Pilot Study; Kristine Farley, 2018.
- Is Deep Brain Stimulation for Parkinson's Disease Neuroprotective in Humans? (Co-chair); Jamie Schwartz, 2014
- AAV Capsid-Promoter Combinations for Transduction of Primary Neuronal Cultures (Co-chair). Meghan Pardo, 2014.

- Validity of the Digital Visual Analog Scale in Upper Extremity Pain Ratings. Laura Tuckey, 2008.
- The use of extended receiving lane during simulated driving by younger and older adults. Karrie Parker, 2008.
- Efficacy of a Peer Fitness Team Intervention on Physical Activity Behaviors and CVD Risk Factors on Firefighters: A pilot Study (Co-chair). Jordan Miller, 2009.
- Test-retest Reliability of the BTE-Primus Elbow Flexion Attachment. Kristen Holt, 2004.