

# CURRICULUM VITAE

**NAME** **Jan M. Hondzinski, Ph.D.**

## CONTACT INFORMATION

**Professional Address** School of Kinesiology  
Louisiana State University  
1246 Pleasant Hall  
Baton Rouge, LA 70803  
Phone: 1-225-578-9144  
Fax: 1-225-578-3680  
Email: [jhondz1@lsu.edu](mailto:jhondz1@lsu.edu)  
ORCID: 0000-0001-9624-8841  
Website: [http://www.lsu.edu/chse/kinesiology/faculty\\_listing/hondzinski.php](http://www.lsu.edu/chse/kinesiology/faculty_listing/hondzinski.php)

## EDUCATIONAL BACKGROUND

December 1998 *Ph.D. in Exercise Science*, University of Iowa, Dissertation:  
“Contributions of vision in aerial performances” [microform]  
May 1991 *Level IV Teaching Endorsement in Mathematics*, University of Utah  
August 1990 *M.S. in Health Education*, University of Utah  
June 1986 *B.S. in Physical Education and Mathematics (minor)*, University of Utah,  
Teacher Certification

## PROFESSIONAL EXPERIENCE

2020-present *Professor*. School of Kinesiology, Louisiana State University  
2007-2020 *Associate Professor*. Department of Kinesiology, Louisiana State University  
2001-2007 *Assistant Professor*. Department of Kinesiology, Louisiana State University  
1999-2001 *Post-Doctoral Associate*. University of Minnesota  
1992-1998 *Teaching and Research Assistant*. University of Iowa  
1986-1992 *Mathematics Teacher*. Cottonwood High School, Salt Lake City, Utah

## RESEARCH

**Major areas of research interests:** Motor Control and Sensorimotor integration (with emphasis in whole-body movement control) *Ongoing projects for the Sensorimotor/Motor Control Lab:*

- Effects of gravitational pull, gaze direction, visual inputs, fatigue, and/or sensory deficits on coordination, goal-directed movements, and physical function of balance and mobility—influences of healthy aging and neurological deficits
- Effects of various training techniques on functional performance and motor control in people with neurological deficits, including Parkinson’s disease and peripheral neuropathy
- Nutritional effects on functional performance in people with Parkinson’s disease
- Exoskeleton use for performance of industrial tasks and for training in people with neurological declines

**Publications** (\*represents graduate student; \*\*represents undergraduate student)

*Manuscripts*

Xu, J., Nelson, A.G., & **Hondzinski, J.M.** (2021) Passive static stretching alters the characteristics of the force-velocity curvature differently for fast and slow muscle groups—A practical application of Hill's equation. *Hum Move Sci*, 79:102852  
<https://doi.org/10.1016/j.humov.2021.102852>

Yeomans, M.A.\*, Phillips, B.\*\*, Dalecki, M., & **Hondzinski, J.M.** (2021) Eye movements influence on coupled and decoupled eye-hand coordination tasks. *Exp Brain Res*, 239:2477-2488. doi: 10.1007/s00221-021-06138-0

Yeomans, M.A.\*, Yan, S.\*, **Hondzinski, J.M.**, & Dalecki, M. (2021) Eye-hand decoupling decreases visually guided reaching independently of posture but reduces sway while standing: Evidence for supra-postural control. *Neurosci Lett*, 752:135833. doi: 10.1016/j.neulet.2021.135833

Yan, S.\*, & **Hondzinski, J.M.** (2021) Gaze direction changes the vertical-horizontal illusory effects on manual length estimations. *J Mot Behav*, 53(1):92-104. doi: 10.1080/00222895.2020.1732286

**Hondzinski, J.M.**, Ikuma, L., de Queiroz, M., & Wang, C. (2018) Effects of exoskeleton use on movement kinematics during performance of common work tasks: A case study. *Work*, 61(4):575-588. doi: 10.3233/WOR-162827

Yeomans, M.A.\*, Nelson, A., MacLellan, M., **Hondzinski, J.M.** (2018) Visually-guided saccades attenuate postural sway under non-fatigued, fatigued, and stretched states. *Exp Brain Res*, 236(12):3351-3361. doi: 10.1007/s00221-018-5384-2

Kosma, M., **Hondzinski, J.M.**, & Buchanan, D.R. (2017) Exercise, health, and falls risks among older African American women. *Int J Kinesiol Sports Sci*, 5(3):16-27.  
<http://dx.doi.org/10.7575/aiac.ijkss.v.5n.3p.16>

Kosma, M., Buchanan, D.R., & **Hondzinski, J.M.** (2017) Complexity of exercise behavior among older African American women. *J Aging Phys Act*, 25:333-344. doi: 10.1123/japa.2016-0032

**Hondzinski, J.M.**, Soebbing, C.M.\*, French, A.E.\*\*, Wings, S.A. (2016) Different damping responses explain vertical endpoint error differences between visual conditions. *Exp Brain Res*, 234(6):1575-87. doi: 10.1007/s00221-015-4546-8

Kosma, M., Buchanan, D.R., & **Hondzinski, J.M.** (2015). The role of values in promoting physical activity. *Quest*, 67:241-254. doi: 10.1080/00336297.2015.1050117

Li, L., **Hondzinski, J.M.** (2012) Select exercise modalities may reverse movement dysfunction because of peripheral neuropathy. *Exerc Sport Sci Rev*, 40(3):133-7. doi: 10.1097/JES.0b013e31825f7483

**Hondzinski, J.M.** (2012) Specificity of training, not the only therapy option for Parkinson's patients. *J Nov Physiolther*, 2(6):1000e119. doi:10.4172/2165-7025.1000e119

Kadivar, Z.\*, Corcos, D.M., Foto, J., **Hondzinski, J.M.** (2011) Effect of step training and rhythmic auditory stimulation on functional performance in Parkinson's patients. *Neurorehabil Neural Repair*, 25(7):626-635. doi: 10.1177/1545968311401627

Kwon, T.Y.\*, **Hondzinski, J.M.** (2011) Stimulus eccentricity and stimulus-response compatibility during quick yaw head rotations: a test-retest reliability study. *Eur J Sci Res*, 62(4):518-527 (ISSN 1450-216X/1450-202X)

- Hondzinski, J.M.**, Li, L., Welsch, M. (2010) Age-related and sensory declines offer insight to whole body control during a goal-directed movement. *Motor Control*, 14(2):176-94. doi: 10.1123/mcj.14.2.176
- Hondzinski J.M.**, & Kwon, T.Y.\* (2009) Pointing control using a moving base of support. *Exp Brain Res*, 197(1):81-90. doi: 10.1007/s00221-009-1893-3
- Hondzinski, J.M.**, & Cui, Y.\* (2006). Allocentric cues do not always improve whole body reaching performance. *Exp Brain Res*, 174(1):60-73. doi: 10.1007/s00221-006-0421-y
- Cui, Y.\* , & **Hondzinski, J.M.** (2006). Gaze tracking accuracy in humans: Two eyes are better than one. *Neurosci Lett*, 396(3), 257-262. doi: 10.1016/j.neulet.2005
- Hondzinski, J.M.** (2004). Comparing human reaches across three viewing conditions in a step and reach task. *Neurosci Lett*, 357(1), 25-28. doi: 10.1016/j.neulet.2003.12.037
- Klein Breteler, M.D., **Hondzinski, J.M.**, & Flanders, M. (2003). Drawing sequences of segments in 3D: Kinetic influences on arm configuration. *J Neurophysiol*, 89(6), 3253-3263. doi: 10.1152/jn.01062.2002
- Flanders, M., **Hondzinski, J.M.**, Soechting, J.F., & Jackson, J.C. (2003). Using arm configuration to learn the effects of gyroscopes and other devices. *J Neurophysiol*, 89(1), 450-459. doi: 10.1152/jn.00053.2002
- Hondzinski, J.M.** (2003). Making neuroscience simple by promoting metacognition. *Acad Exch Quart*, 7(4), 286-291. (ISSN: 1096-1453)
- Wood, R.H., **Hondzinski, J.M.**, & Lee, C.M. (2003). Evidence of an association among age-related changes in physical, psychomotor and autonomic function. *Age Ageing*, 32(4), 415-421. doi: 10.1093/ageing/32.4.415
- Hondzinski, J.M.**, & Darling, W.G. (2001). Aerial somersault performance under three visual conditions. *Motor Control*, 5(3), 281-300. doi: 10.1123/mcj.5.3.281
- Reifel Saltzberg, J., **Hondzinski, J.M.**, & Flanders, M. (2001). Humans adapt the initial posture in learning a whole-body kicking movement. *Neurosci Lett*, 306(1-2), 73-76. doi: 10.1016/s0304-3940(01)01875-4
- Darling, W.G., **Hondzinski, J.M.**, & Harper, J.G.\* (2000). Gaze direction effects on perceptions of upper limb kinesthetic coordinate system axes. *Exp Brain Res*, 135(3), 360-372. doi: 10.1007/s002210000526
- Darling, W.G., & **Hondzinski, J.M.** (1999). Kinesthetic perceptions of earth- and body-fixed axes. *Exp Brain Res*, 126(3), 417-430. doi: 10.1007/s002210050748
- Darling, W.G., & **Hondzinski, J.M.** (1997). Visual perceptions of vertical and intrinsic longitudinal axes. *Exp Brain Res*, 116(3), 485-492. doi: 10.1007/pl00005776
- Sands, W.A., **Hondzinski, J.M.**, Shultz, B.B., & George, G.S. (1995). A comparison of subtalar joint maximal eversion while jogging on the minitrampoline and floor. *J Orthop Sports Phys Ther*, 22(2), 65-72. doi: 10.2519/jospt.1995.22.2.65

#### *Book Chapters*

- Hondzinski, J.M.**, Soebbing, C.M.\* (2015) Sensorimotor Integration: A Special Emphasis on Visual Inputs for Goal-directed Movements. In Heinen, T. (ed) *Advances in Visual Perception Research*. Nova Science Publishers, Inc., New York, pp. 293-318
- Hondzinski, J.M.**, Kadivar, Z.\* , & Hegwood, M.F.B.\*\* (2014). Gait in Parkinson's Disease. In Li, L., Holmes, M. (eds) *Gait Biometrics: Basic Patterns, Role of*

*Neurological Disorders and Effects of Physical Activity*. Nova Science Publishers, Inc., New York, pp. 65-102

### *Reports*

**Hondzinski, J.M.**, Darling, W.G., & Bordignon, A.M. (1994). Perception of trunk alignment in standing, suspended and inverted positions. *Report in the 4th Annual Iowa Space Conference (NASA) proceedings*, November, 317-326.

### *Manuscripts submitted or accepted with revisions*

Yan, S.\*, Yeomans, M.A.\*, & **Hondzinski, J.M.** Vertical-horizontal illusory effects with gaze restrictions do not change length estimations using the lower limb, *Exp Brain Res* (accepted with revisions)

Corcos, D.M., Patterson, C.G., Josline, E., Gil, A.B., Spigle, W., Nemet, T., et al., **SPARX3**, PSG. Study in Parkinson's Disease of Exercise Phase 3 Randomized Clinical Trial (SPARX3), *Trials* (accepted resubmitted)

## **Mentorship for Dissertations and Theses—completed**

### *Dissertation Chair/Co-chair*

Addison, R.N. (May 2022-co-chair) Visuomotor rotation adaptation and workspace manipulation: A behavioral and cognitive emphasis, LSU Dissertation

Yeomans, M.A. (August 2020-co-chair) Eye-hand coordination varies according to changes in cognitive-motor load and eye movements used, LSU Dissertation

Yan, S. (May 2020) Geometric visual illusion effects on visual perception and visuomotor control: emphasis on the vertical-horizontal illusion, LSU Dissertation

Kwon, T. (December 2010) Target Eccentricity effects for defensive responses, LSU Dissertation

Klumpp, M.L.B. (May 2010) The effects of aging and unilateral vestibular disorders on the kinematic performance of vestibular rehabilitation exercises and physical function. LSU Dissertation.

- USDA Doctoral Fellowship in Life Course and Aging
- 2005 LSU Graduate School Dissertation Fellowship awardee.

Kadivar, Z. (December 2009) Does practice of multi-directional stepping with auditory stimulation improve movement in patients with Parkinson's disease? LSU Dissertation.

- 2009 LSU Graduate School Dissertation Fellowship awardee

### *Master Theses Chair*

Yeomans, M.S. (December 2017) Saccades attenuate postural sway despite muscular fatigue negatively influencing proprioception. LSU Master Thesis

Soebbing, C.M. (January 2014) Can gravitational influences explain endpoint precision between visual conditions? LSU Master Thesis.

- 2014 American Kinesiology Association (AKA) National Masters Student Award Winner

### *Undergraduate Theses/Projects Chair*

Adeyemo, A.G. (May 2022) Illusory effects on stepping over obstacles after lower extremity muscle fatigue. LSU Undergraduate Honors Thesis. School of Kinesiology

Rickman A., Lonibos C., Patel A., Badat A., Showers J., Ho D., Wilson K. (May 2018) Improving Outcomes in Cervical Spine Trauma: Building a Better Cervical Collar.

Capstone Project—Department of Mechanical Engineering (co-advise with Drs. Hunter Gilbert and Kumar).

Celestine, S.D. (May 2017) The Effects of Gaze Eccentricity on Stepping Accuracy and Anticipatory Postural Adjustments. LSU Undergraduate Honors Thesis. School of Kinesiology

Donze, V. (April 2017) The Influence of Age, Foot Sensation, and Gaze Direction on Foot Placement During Goal-Directed Stepping. LSU Undergraduate Honors Thesis. School of Kinesiology

Amedee, T. (May 2016) Interlimb differences in movement accuracy in darkness vary with handedness laterality scores in right-handers. LSU Undergraduate Honors Thesis. School of Kinesiology

Mahlobo, C.T. (December 2013) Effect of aging and peripheral neuropathy on standing reaching precision with and without visual cues. LSU Undergraduate Honors Thesis. School of Kinesiology

French, A.E. (December 2013) Gravitational pull does not explain undershooting target locations in complete darkness. LSU Undergraduate Honors Thesis. School of Kinesiology

- 2014 LSU Outstanding Honors Thesis

Dillard, D. (May 2013) The Esko Robotic Exoskeleton. McNair Scholar Program-Project for undergraduates. School of Kinesiology

#### *University Adviser for High School Projects*

LaPrairie, Ariane (2013) Senior Project: Kinematics of walking barefoot and in comfortable shoes. Baton Rouge Magnet High School

#### *Minor Professor for Dissertations*

Young, K.E. (December 2014) Clarinet thumb-rest function: The pedagogy of positioning and electromyography evidence. School of Music

Green, C. (August 2012) Applicability of periodization to orchestral audition preparation on trombone: a case study. School of Music

Fabre, J. (May 2009) Identification of falls risk factors in community-dwelling older adults: validation of the Comprehensive Falls Risk Screening Instrument. Department of Kinesiology

#### *Committee Member for Dissertations*

Sutherland, N.E. (May 2022) Cardiovascular and range of motion effects from exercise training interventions, LSU Dissertation [Committee Member]

Acharya, P. (August 2020) Neuromotor control of the hand during smartphone manipulation. School of Kinesiology. [Committee Member]

Erwin, M. (Fall 2019) Ageism and embodied stereotypes: A study of adult learners in community college at midlife. School of Education. [Dean's Representative Committee Member]

Zhang, R. (Spring 2017) Human gut microbiota and obesity: how is gut microbiota associated with obesity improvement induced by bariatric surgeries (BRS) or low-calorie diet (LCD) treatment? Department of Environmental Sciences. [Dean's Representative Committee Member]

Aiken, C.A. (August 2015) Motor learning effects of two types of stressors: implications for practice specificity. Department of Kinesiology. [Committee Member]

Pan, Z. (August 2014) The control of amplitude and direction in bimanual coordination. Department of Kinesiology. [Committee Member]

Chou, Y.C. (August 2013) When the mouse meets the elephant: a manual for string bass players with application of the philosophy and principles of the F. M. Alexander Technique. School of Music. [Committee Member]

Waldhelm, A. (May 2011) Assessment of core stability: developing practical models. Department of Kinesiology. [Committee Member]

Russell, R.D. (August 2011) Examination of metabolism in diabetic offspring. Department of Kinesiology. [Committee Member]

Young, M. (2009) Development and application of an optimization model for elite level shot putting. Department of Kinesiology. [Committee Member]

Cleveland, L. (December 2009) Children's production of verbal -s by dialect type and clinical status. Department of Communication Disorders and Sciences. [Dean's Representative Committee Member]

Ruan, M. (August 2007) Maximize muscle mechanical output during the stretch-shortening cycle--the contribution of preactivation and stretch load. Department of Kinesiology. [Committee Member]

Dix-Galloway, M.L. (August 2005) Non-medical skills and competencies needed by paraprofessional caregivers. Department of Human Ecology. [Dean's Representative Committee Member]

Ridgway, A. (August 2004) The effects of a recess or break and stimulant medication on the classroom behavior of children with ADHD. Department of Psychology. . [Dean's Representative Committee Member]

*Committee Member for Master Theses*

Canton, S.P. (December 2015) Active Versus Passive Control of Arm Swing: Implication of the Restriction of Pelvis Rotation during Human Locomotion. Department of Kinesiology

DeVeer, M.J. (2005) Hemodynamic and ocular responses to caloric stimulation and age-related disparities. Department of Kinesiology

*Committee Member for Undergraduate Theses*

Veillon-Bradshaw (O'Neal), M. (December 2021) Prolonged eye-hand decoupling deficits in young adults with concussion history from adolescence: Issues with task novelty or ongoing task demand? School of Kinesiology

Turner, A. (May 2019) Identification of blood biomarkers of mild traumatic brain injury in collegiate football players. School of Kinesiology

Migliore, C. (May 2017) Comparison of the kinematics and muscle responses during level walking and obstacle avoidance in people with Stroke. Department of Kinesiology

Tilly, C. (May 2016) The effects of levodopa on the performance of fine motor tasks in individuals with Parkinson's disease. Department of Kinesiology

**Organized Conference Presentations** (\*represents graduate student; \*\*represents undergraduate student)

*National and International:*

**Hondzinski, J.M.**, Farley, B.G., Kadivar, Z., Fisher, B.E. and Van Gemmert, A.W.A. (June, 2010). Focused training techniques in individuals with Parkinson's disease. Symposium presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference, Tucson, Arizona

**Invited Conference Presentations**

*National and International:*

**Hondzinski, J.M.** (April 2022) Sensorimotor control and rehabilitation: Taking advantage of neuroplasticity. Keynote for the 1<sup>st</sup> Annual Rehabilitation-Biomechanics Conference. Virtual meeting. [Shandong Sport University, Beijing, China]

**Hondzinski, J.M.** (June 2021) From accuracy of gaze tracking to altered sensory and cognitive inputs on movement control. Senior Lecturer for the Motor Learning and Control at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Virtual meeting [published in: J Sport Exercise Psych, 43(Suppl.), S2]

**Hondzinski, J.M.** Exercise alters movement strategies in peripheral neuropathy patients. In Li, L., Hass, C., Hondzinski, J. M., Knight, C. A., & Messier, S. P. (2006, May/June). Evaluation of interventions for special populations using biomechanical outcomes. Presentation at the 53rd Annual Meeting of the American College of Sports Medicine, Denver, Colorado

Exner, P., Fleener, M.J., Goodson, M., **Hondzinski, J.M.**, Lee, A., & Munro Hendry, P. (2006, January). Leaving colleges of education behind: re-visioning roles through community partnerships. Presentation at the American Association of Colleges for Teacher Education San Diego, California

Babin, E.H., Cuddeback, M.M., **Hondzinski, J.M.**, Jacobs, D.K., Lemieux, C.M., & Normand, D. (2003, November). Service-learning faculty as reflective practitioners. Presentation at the International Conference on Civic Education Conference, New Orleans, Louisiana

*Regional:*

**Hondzinski, J.M.** Understanding neural motor control: Do you have the nerve? Speakers: **Hondzinski, J. M.**, Allen, P.A., & Rossi, G. (2022, May). Presentation for the Aging Well in Louisiana Virtual Symposium

**Hondzinski, J.M.** Aging well with exercise. Speakers: Allen, P.A., **Hondzinski, J.M.**, & Rossi, G. (2020, November). Presentation for the Aging Well in Louisiana Virtual Symposium

Li, L., Gardner, R., **Hondzinski, J. M.**, Wood, R., & Welsch, M. (2005, January). Exercise intervention for peripheral neuropathy patients: using an integrated approach to examine improvements. Presentation at the Southeast American College of Sports Medicine Atlanta, Georgia

**Hondzinski, J. M.**, Li, L., Maraj, B., & Simpson, K. (2003, January). Vision as an integral part of motor skill control. Presentation at the Southeast American College of Sports Medicine Atlanta, Georgia

**Research Conference Presentations** (\*represents graduate student; \*\*represents undergraduate student)

*National and International:*

Watts, T.\*\*, Cannon, M.\*\*\*, Adeyemo, A.G.\*\*, Gauss, T., **Hondzinski, J.M.** (Nov 2022) Use of actual and remembered visual feedback for obstacle clearance during walking. Presentation at the 51<sup>st</sup> Society for Neuroscience Annual Meeting, San Diego, CA.

Adeyemo, A.G.\*\*, Watts, T.\*\*, Randon, E.\*, Yan, S., **Hondzinski, J.M.** (May 2022) Illusory effects on stepping over obstacles after lower extremity muscle fatigue. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference, Waikoloa, HI [published in: J Sport Exercise Psych, 44(Suppl.), S29]

Addison, R.N.\*, **Hondzinski, J.M.**, Van Gemmert, A.W.A. (May 2022) Training visuomotor adaptation with remembered targets improves reaction time in different workspace locations. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference, Waikoloa, HI [published in: J Sport Exercise Psych, 44(Suppl.), S28]

**Hondzinski, J.M.**, Davis, M.\*, Wang, Y.\*, Castro Jr., R.\*, Hua, R.\*, Kennedy, D. (November 2021) The effects of bimanual coordination constraints on postural control. Presentation at the 50th Society for Neuroscience Annual Meeting, ~~Chicago, IL~~. Virtual meeting.

Yan, S.\*, Yeomans, M.A.\*, **Hondzinski, J.M.** (June 2021) Vertical-horizontal (V-H) illusory effects with gaze restrictions influence planning but not completion of length estimations using the lower limb. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Virtual meeting [published in: J Sport Exercise Psych, 43(Suppl.), S51]

Yeomans, M.A.\*, Yan, S.\*, **Hondzinski, J.M.**, Dalecki, M. (June 2021) Eye-hand coordination and postural control vary according to changes in cognitive-motor load. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Virtual meeting [published in: J Sport Exercise Psych, 43(Suppl.), S52]

Yan, S.\*, **Hondzinski, J.M.** (June 2020) Potentially deceptive influences of the vertical-horizontal (V-H) illusion on manual length estimations. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Virtual ~~Vancouver, CA~~ [published in: J Sport Exercise Psych, 42(Suppl.), S63]

Yeomans, M.A.\*, Yan, S.\*, **Hondzinski, J.M.**, Dalecki, M. (June 2020) Eye-hand coordination and postural control vary according to changes in cognitive-motor load. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Virtual ~~Vancouver, CA~~ [published in: J Sport Exercise Psych, 42(Suppl.), S63]

Yan, S.\*, Sigur, T.M.\*\* **Hondzinski, J.M.** (October 2019) Gaze location changes manual size estimations of the bisecting segment of the vertical-horizontal illusion. Presentation at the 49th Society for Neuroscience Annual Meeting, Chicago, IL

Yeomans, M.A.\*, Phillips, B.\*\* **Hondzinski, J.M.**, Dalecki, M. (June 2019) Fixations improved temporal movement characteristics during eye-hand coordination tasks. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Baltimore, MD [published in: J Sport Exercise Psych, 41(Suppl.), S53]



Yeomans, M.A.\*, Michel, A.V.\*\*, Moore, K.\*\*, Diez, T.\*\*, Schipper, J.\*\*, Yan, S.\*, **Hondzinski, J.M.** (November 2018) Greater visual attentional demands during saccadic eye movements do not improve postural sway. Presentation at the 47th Society for Neuroscience Annual Meeting, San Diego, CA

Yeomans, M.A.\*, Nelson, A., MacLellan, M., Cooper, E.M.\*, **Hondzinski, J.M.** (June 2018) Saccades attenuate body sway despite muscular fatigue negatively influencing proprioception. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Denver, CO. [published in: *J Sport Exercise Psych*, 40(Suppl.), S71]

**Hondzinski, J.M.**, Yeomans, M.A.\*, Nelson, A., MacLellan, M. (November 2017) Saccadic eye movements influence postural sway after fatiguing and stretching. Presentation at the 46th Society for Neuroscience Annual Meeting, Washington, DC

Wang, C., Ikuma, L., **Hondzinski, J.**, and Queiroz, M. (June 2017). Application of Assistive Wearable robotics to alleviate construction workforce shortage: challenges and opportunities. American Society of Civil Engineers (ASCE) International Workshop on Computing in Civil Engineering, ASCE, Seattle, WA

**Hondzinski, J.M.**, Ikuma, L. H., de Queiroz, Q. M., Wang, C. (June 2017) Exoskeleton augmentation does not compromise user safety during performance of common industrial tasks. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. San Diego, CA. [published in: *J Sport Exercise Psych*, 39(Suppl.), S137]

Celestine, S.D.\*\*, Donze, V.G.\*\*, Bellingham, N.J.\*\*, Buie, K.J.\*\*, & **Hondzinski, J.M.** (June 2017) Gaze direction and foot sensation influence foot placement during goal-directed stepping. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. San Diego, CA. [published in: *J Sport Exercise Psych*, 39(Suppl.), S117]

Kosma, M., Buchanan, D. R., & **Hondzinski, J.M.** (March 2017). Dilemmas in exercise behavior among older African American women. Oral presentation for the SHAPE America national convention, Boston, MA

Kosma, M., **Hondzinski, J.M.**, & Buchanan, D. R. (March 2017). Exercise, health, and falls risks among older African American women. Oral presentation for the SHAPE America national convention, Boston, MA

Kosma, M., Buchanan, D. R., & **Hondzinski, J.M.** (July 2016). Practical reasoning in physical activity promotion. Oral presentation at the 12<sup>th</sup> Annual International Conference on Kinesiology and Exercise Sciences, Athens Institute for Education and Research (ATINER), Athens, Greece

Yan, S.\*, & **Hondzinski, J.M.**, (November 2016) Effects of the vertical-horizontal illusion on visual perceptions and manual estimations. Presentation at the 45<sup>th</sup> Society for Neuroscience Annual Meeting, San Diego, California

**Hondzinski, J.M.**, Kosma, M., Buchanan, D.R., McDougal, D.R.\*\*, Strain, C.\*\* (June 2016) Mobility differences exist between races in older women. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Montreal, Canada. [published in: *J Sport Exercise Psych*, 38(Suppl.), S65.]

Amedee, T.A.\*\*, Donze, V.G.\*\*, Przybyla, A., & **Hondzinski, J.M.**, (October 2015) Performance asymmetries for left and right arms in 3D vary by visual condition and spatial location. Presentation at the 44<sup>th</sup> Society for Neuroscience Annual Meeting, Chicago, Illinois

**Hondzinski, J.M.**, Wings, S.A., French, A.E., Soebbing, C.M. (June 2015) Different damping responses explain different vertical endpoint errors between visual conditions. North American Society for the Psychology of Sport and Physical Activity Annual Conference. Portland, Oregon. [published in: *J Sport Exercise Psych*, 37(Suppl.), S44.]

Wings, S.A. & **Hondzinski, J.M.** (June 2015) Multi-muscle activation patterns for fine and gross pointing movements differ across visual conditions. North American Society for the Psychology of Sport and Physical Activity Annual Conference. Portland, Oregon. [published in: *J Sport Exercise Psych*, 37(Suppl.), S66.]

**Hondzinski, J.M.**, Wings, S.A. (November 2014) Precision of fine and gross pointing movements differs across visual conditions. Presentation at the 43rd Society for Neuroscience Annual Meeting, Washington DC

Soebbing, C.M., French, A.E., **Hondzinski, J.M.** (November 2013) Acceleration time differs when pointing to remembered targets in darkness. Presentation at the 42nd Society for Neuroscience Annual Meeting, San Diego, California

French, A.E., Soebbing, C.M. **Hondzinski, J.M.** (June 2013) Movement excursions fall short when pointing in complete darkness despite body orientation. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. New Orleans, Louisiana

Soebbing, C., Crutchfield, L., French, A., **Hondzinski, J.M.** (October, 2012) Interactions among reaching precision, body orientation, and vision. Presentation at the 42nd Society for Neuroscience Annual Meeting, New Orleans, Louisiana

**Hondzinski, J.M.**, Li, L., Pan, Z., Prejean, P., Van Gemmert, A.W.A. (June 2012) Movement excursion explains associations between gross and fine motor functions in older adults with and without Parkinson's disease. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Honolulu, Hawaii

Van Gemmert, A.W.A., Li, L., Prejean, P., Pan, Z., **Hondzinski, J.M.** (June 2012) Long-term Tai Chi participation benefits fine motor skill function of Parkinson's disease patients. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference. Honolulu, Hawaii

Rose, K.M., Van Gemmert, A.W.A., **Hondzinski, J.M.**, Li L. (May-June 2012) Asymmetry in Parkinson's Disease is reflected in the Timed Up and Go Test. Presentation at the 59<sup>th</sup> American College of Sports Medicine Annual Conference. San Francisco, California

**Hondzinski, J.M.**, Fischer, M., Samanie, T. (November, 2011) Lower limb sensory deficits and upper limb accuracy during a standing reach task. Presentation at the 41st Society for Neuroscience Annual Meeting, Washington D.C

Prejean, P., Pan, Z., Harrison, J., van Gemmert, A.W.A., Li, L., **Hondzinski, J.M.** (June 2011). Potential benefits of long-term limited Tai Chi training for Parkinson's patients. North American Society for the Psychology of Sport and Physical Activity Annual Conference, Birmingham, Vermont

Kwon, T.Y., **Hondzinski, J.M.** (November 2010). The influence of target eccentricity on ipsilateral and contralateral responses. Presentation at the 40th Society for Neuroscience Annual Meeting, San Diego, California

Kadivar, Z., Foto, J., **Hondzinski, J.M.** (October 2009). Auditory stimulation enhances retention abilities in Parkinson's patients. Program No. 429.23. 2009 Neuroscience

Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online. Presentation at the 39th Society for Neuroscience Annual Conference, Chicago, Illinois

**Hondzinski, J.M.**, Kadivar, Z. (June 2009). How older adults coordinate their upper and lower limbs during goal-directed whole body movement. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference, Austin, Texas

Kadivar, Z., Foto, J., Johnson, M., Jones, J., Boyance, T., Duet, M.M., **Hondzinski, J.M.** (November 2008). Evidence that practice of multi-directional stepping with auditory stimulation improves movement performance in patients with Parkinson's disease. Presentation at the 38th Society for Neuroscience Annual Meeting, San Diego, California

**Hondzinski, J.M.**, & Kadivar, Z. (November 2008). Control of accuracy and coordination dissociate during whole body movements. Presentation at the 38th Society for Neuroscience Annual Meeting, San Diego, California

Duet, M., Heil, D.P., Black, C., **Hondzinski, J.M.**, & Li, L. (May 2008) Physical activity monitor recordings are task and population dependent. Presentation at the 55<sup>th</sup> Annual meeting of the American College of Sports Medicine Indianapolis, Indiana. [published in: *Medicine & Science in Sports & Exercise*. 40(5): S120]

Amano, S., Shah, N., Magill, R., **Hondzinski, J.M.**, & Li, L. (2008, May) People with Peripheral Neuropathy Have Normal Motor Control Capacity. Presentation at the 55<sup>th</sup> Annual meeting of the American College of Sports Medicine Indianapolis, Indiana. [published in: *Medicine & Science in Sports & Exercise*. 40(5): S88]

Klumpp, M.L. & **Hondzinski, J.M.** (2007, October/November). Kinematic differences among vestibular patients and young and old controls performing vestibular exercises. Presentation at the 37th Society for Neuroscience Annual Meeting, San Diego, California.

**Hondzinski, J.M.** & Kwon, T.Y. (2007, June). Prediction of final pointing errors using gaze and body orientations. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference, San Diego, California

Kwon, T.Y., Cui, Y., & **Hondzinski, J.M.** (2006, October). Interactions among step, arm, and gaze orientations during pointing tasks. Presentation at the 36th Society for Neuroscience Annual Meeting, Atlanta, Georgia

Cui, Y., Kwon, T.Y., & **Hondzinski, J.M.** (2006, October). Peripheral neuropathy influences accuracy in goal-directed reaching tasks. Presentation at the 36th Society for Neuroscience Annual Meeting, Atlanta, Georgia

Kadivar, Z., Magill, R.A., & **Hondzinski, J.M.** (2006, October). Temporal aspects of gait during rhythmic auditory stimulation in healthy adults. Presentation at the 36th Society for Neuroscience Annual Meeting, Atlanta, Georgia

**Hondzinski, J.M.**, Cui, Y., & Li, L. (2005, June). Whole-body coordination in peripheral neuropathy patients correlates with dynamic gait indices. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference, St. Pete Beach, Florida. [published in: *J of Sport Exercise Psy*, 27(Suppl.), S77-8.]

**Hondzinski, J.M.**, & Klumpp, M.L. (2005, November). Kinematics of certain vestibular rehabilitation exercises reveal left and right asymmetries for unilateral vestibular patients. Presentation at the 35th Society for Neuroscience Annual Meeting, Washington, DC

Klumpp, M.L., & **Hondzinski, J.M.** (2005, November). Head movements with and without visual fixation may be the key to successful vestibular rehabilitation. Presentation at the 35th Society for Neuroscience Annual Meeting, Washington, DC

- Cui, Y., & **Hondzinski, J.M.** (2004, October). Comparing reaches in peripheral neuropathy patients: standing vs stepping. Presentation at the 34th Society for Neuroscience Annual Meeting, San Diego, California
- Hondzinski, J.M.**, & Cui, Y. (2004, June). Reaching errors are not always larger in darkness during a step and reach task. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference, Vancouver, British Columbia, Canada. [published in: *J of Sport Exercise Psy*, 26(Suppl.), S93.]
- Hondzinski, J.M.**, & Cui, Y. (2004, October). Allocentric cues do not always improve whole body reaching performance. Presentation at the 34th Society for Neuroscience Annual Meeting, San Diego, California
- Cui, Y., Grodesky, J.M., & **Hondzinski, J.M.** (2003, November). Determining gaze position accuracy for right and left head rotations. Presentation at the 33rd Society for Neuroscience Annual Meeting, New Orleans, Louisiana
- Grodesky, J.M., Cui, Y., & **Hondzinski, J.M.** (2003, November). Gaze direction alterations when reaching to real and remembered targets. Presentation at the 33rd Society for Neuroscience Annual Meeting, New Orleans, Louisiana
- Hondzinski, J.M.**, Grodesky, J.M., & Cui, Y. (2003, June). Accuracy of gaze direction measured by a binocular head-mounted system. Presentation at the North American Society for the Psychology of Sport and Physical Activity Annual Conference, Savannah, Georgia. [published in: *J of Sport Exercise Psy*, 25(Suppl.), S70.]
- Grodesky, J.M., Li, L., & **Hondzinski, J.M.** (2002, August). Variability and stability change with walking velocity—what is the relationship between the two? Presentation at the IV World Congress of Biomechanics, Calgary, Alberta, Canada
- Hondzinski, J.M.** (2002, May/June). Whole body reaches are influenced by gaze direction and target eccentricity. Presentation at the 49th Annual Meeting of the American College of Sports Medicine. St Louis, Missouri. [published in: *Med Sci Sport Exer*, 34(5, Suppl.), S39.]
- Hondzinski, J.M.** (2002, August). Comparing movements across three visual conditions in a step and reach task. Presentation at the IV World Congress of Biomechanics, Calgary, Alberta, Canada
- Klein Breteler, M.D., **Hondzinski, J.M.**, & Flanders, M. (2001, November). Reaching and drawing in 3D: evidence for look-ahead planning. Presentation at the 31st Society for Neuroscience Annual Meeting, San Diego, California
- Hondzinski, J.M.**, Soechting, J.F., & Flanders, M. (2000, November). Dealing with the velocity-dependent loads induced by gyroscopic action. Presentation at the 30th Society for Neuroscience Annual Meeting, New Orleans, Louisiana
- Hondzinski, J.M.**, Darling, W.G., Logue, M., & Kuo, H.C. (1999, October). Role of ambient vision in aerial performances. Presentation at the 29th Society for Neuroscience Annual Meeting, Miami Beach, Florida
- Darling, W.G., **Hondzinski, J.M.**, & Harper, J.G. (1998, November). Gaze direction effects on kinesthesia. Presentation at the 28th Society for Neuroscience Annual Meeting, Los Angeles, California
- Hondzinski, J.M.**, Darling, W.G., & Bordignon, A.M. (1997, September). Accuracy of trunk alignment to visually specified axes is similar in gymnasts and non-gymnasts. Presentation at the 21st Annual Meeting of the American Society of Biomechanics, Clemson University, South Carolina

**Hondzinski, J.M., & Darling, W.G.** (1993, October). Perception of vertical trunk alignment. Presentation at the 17th Annual Meeting of the American Society of Biomechanics, Iowa City, Iowa

*Regional:*

**Hondzinski, J.M.** (July 2016) Local Research with LSU. (including: Introduction to the Dermal skeleton for Parkinson's Disease). Presentation at the 5th Annual Louisiana Parkinson's Conference, Pennington Biomedical Research Center, Baton Rouge, LA.  
<http://www.chseproed.com/events/the-5th-annual-parkinson-s-conference/event-summary-04a251b300d749e883b33239a1d46def.aspx>

**Hondzinski, J.M.** (July 2013) "Moving it" to improve physical function in Parkinson's Disease. Presentation at the 2<sup>nd</sup> Annual Parkinson's Conference-*Research in Parkinson's Disease: Moving Forward*, Pennington Biomedical Research Center, Baton Rouge, LA.  
<http://www.youtube.com/watch?v=2AedbKIGFWk> (also see below)

Klumpp, M., deVeer, M., **Hondzinski, J.M.**, & Wood, R. (2005, January). The vestibulosympathetic reflex: hemodynamic responses to horizontal semi-circular canal activation. Presentation at the Southeast American College of Sports Medicine, Atlanta, Georgia

**Hondzinski, J.M.**, & Cui, Y. (2004, January). Reaching errors to remembered targets begin early in a step and reach task. Presentation at the Southeast American College of Sports Medicine, Atlanta, Georgia

**Hondzinski, J.M.**, Soechting, J.F., & Flanders, M. (1999, October). Perturbing kinetically optimal arm movements. Presentation at the First Annual Computational Neuroscience Symposium, Minneapolis, Minnesota

**Hondzinski, J.M.**, Darling, W.G., & Bordignon, A.M. (1994, November). Perception of trunk alignment in standing, suspended and inverted positions. Presentation at the 4th Annual Iowa Space Conference (NASA), Iowa City, Iowa (see reports above)

*Other Invited Research Presentations*

**Hondzinski, J.M.** (2013, January) "Moving it" to improve physical function in Parkinson's Disease. Presentation at Louisiana State University Health Science Center, New Orleans, LA

**Hondzinski, J.M.** (2005, November). Quantifying functional effects of vestibular rehabilitation in vestibular patients: an NIH R03 grant submission. Presentation at the Kinesiology Brown Bag Lunch Series. Louisiana State University

**Hondzinski, J.M.** (2005, November). Training effects in patients with chronic vestibular disorders and peripheral neuropathy. Presentation at a Chancellor's Distinguished Lectures Series luncheon. Louisiana State University

**Hondzinski, J.M.** (2003, June). Comparing reaches across three visual conditions in a step and reach task. Invited seminar speaker. University of Minnesota

## Funding

*Submissions:*

*Funded:*

2021 (2021-present). **PI-Hondzinski, J.M.** P.J. Mills Parkinson's Support Fund.  
[https://www.lsu.edu/chse/kinesiology/kin-news/pj\\_mills\\_parkinsons\\_support\\_fund.php](https://www.lsu.edu/chse/kinesiology/kin-news/pj_mills_parkinsons_support_fund.php) *Blue Cross and Blue Shield of*

*Louisiana Foundation*. Total award: \$50,000 with estimated annual withdraw \$4,000.

- 2019 (2019-2024). PI-Corcoc, DM. Study in Parkinson Disease of Exercise Phase 3 Clinical Trial: SPARX3. **Site-PI: Hondzinski, J.M.** Co-Is: Copeland, B., Johanssen, N. *NIH/NINDS U01 Clinical Trial*. Sub-award estimate: \$252,721 (dependent on number of participants). Direct costs for project: \$6,201,682; Total costs for project duration: \$18,827,870
- 2016 (2017-2022) Co-PI: **Hondzinski, J.M.**, & Ingram, D.K. Co-I: Champagne, C., Calegan, G., & Kidder, B.G. Consultant: Marx, B. Effects of Wild Blueberries on Motor Performance of Parkinson's Patients: A Preliminary Clinical Trial. *Wild Blueberry Association of North America*. \$65,640
- 2014 (2015-17) Co-PI: de Queiroz, M., Knapp, G., Mukhopadhyay, S., Rai, S., Hall, S., & **Hondzinski, J.M.** LSU Robotics Engineering. *Louisiana Board of Regents*, Acquired equipment to establish labs that support the new Robotics minor at LSU (joint effort among Engineering, Computer Science, and Kinesiology) \$74,725 (reduced to \$49,600); increased to \$104,568 (with 2016-2017 extension)
- 2010 (2010-2012) PI: **Hondzinski, J.M.** Parkinson's Research Support Fund. *Reilly Family Foundation*. \$100,000
- 2004 (2005-2006) Co-PI: Solmon, M., **Hondzinski, J.M.**, & Landin, D. Human Movement Instructional Laboratory. *Louisiana State University Student Technology Grant*. \$99,341
- 2003 (2004-2005) PI: **Hondzinski, J.M.**, Wood, R.H., & Klumpp, M. Nervous and Circulatory System Degeneration in the Elderly. *Louisiana State University Council on Research Faculty Research Grant Program*. \$10,000
- 2002 (2003) PI: **Hondzinski, J.M.** Using Eye Movements to Assess Driving Vigilance. *Louisiana State University Summer Stipend Grant*. \$5,000
- 2001 (2002-2003) PI: **Hondzinski, J.M.** Service-Learning Incentive Grant. *Louisiana State University Center for Community Engagement, Learning & Leadership*. \$3,000

*Funding source cancelled:*

- 2014 Co-PI: Johanssen, N., **Hondzinski, J.M.**, MacLellan, M. Next Generation Lifeboat. Shell. \$109,292
- 2011 Li, L. **Hondzinski, J.M.**, Van Gemmert, A.W.W. Confidential research project. Kimberly-Clark. \$270,772

*Proposals Not Funded:*

- 2020 PIs: Galeucia, A., Hondzinski, J. M., LiCata, V. J., Flowers, L., Ma, W., Miller, P., Pasquier, M., Seynaeve, J., & Willson, C. Concept paper for TEAGLE/NEH "CORNERSTONE" INITIATIVE.
- 2016 Co-PI: Ikuma, L., **Hondzinski, J.M.**, de Queiroz, M., & Wang, C. Wearing Lower Body Exoskeleton to Reduce Physical Demands in Construction Workers. National Institutes for Occupational Safety and health (NIOSH), R21. \$398,081
- 2016 Co-PI: **Hondzinski, J.M.**, Ikuma, L., de Queiroz, M., & Wang, C. Use of Lower Body Exoskeletons to Reduce Physical Demands in Industrial Workers.

*Louisiana Board of Regents research and development program, Industrial Ties Research Subprogram [ITRS]. \$286,308*

- 2014 **Hondzinski, J. M.**, Ingram, D.K., Champagne, C., Calegan, G. Kidder, B.G. Effects of Wild Blueberries on Motor Performance of Parkinson's Patients: A Pilot Clinical Trial. Wild Blueberry Association of North America. \$48,800
- 2014 **Hondzinski, J.M.**, Ikuma, L., Beck, M., Harvey, C., Aghazadeh, F. Employing Eye Tracking Technology to Improve Instruction and Research on Human Interface Projects. Louisiana Board of Regents Support Fund Traditional Enhancement Proposal. \$77,760
- 2013 **Hondzinski, J.M.**, Ikuma, L., Beck, M., Harvey, C., Aghazadeh, F. Enhancing Instruction on Human Interactions by Employing Eye Tracking Technology. Louisiana Board of Regents Support Fund Traditional Enhancement Proposal. \$87,166 (not reviewed-stated incorrect funding area)
- 2012 **Hondzinski, J.M.**, Ikuma, L., Beck, M., Harvey, C., Aghazadeh, F. Enhancing Instruction and Research on Human Interactions by Employing Eye Tracking Technology. Louisiana Board of Regents Support Fund Traditional Enhancement Proposal. \$87,166
- 2011 **Hondzinski, J.M.**, Ikuma, L., Beck, M., Harvey, C., Aghazadeh, F. Enhancing Instruction and Research on Human Interactions by Employing Eye Tracking Technology. Special Multidisciplinary Louisiana Board of Regents Support Fund Traditional Enhancement Proposal. \$87,166
- 2010 Van Gemmert, A.W.A., Li, L., **Hondzinski, J.M.**, Elliott, E.M., Allen, P.D. Exploring tai chi benefits for Parkinson's disease patients. *LSU Faculty Research Grant Program*. \$40,000
- 2009 Li, L., & **Hondzinski, J.M.** Sensory and Functional Mobility Deficits among People with Peripheral Neuropathy. *National Institutes of Health, National Center for Medical Rehabilitation Research, R01*. \$500,000
- 2009 **Hondzinski, J.M.**, Li, L. Quantifying Sensory Improvement in Peripheral Neuropathy after Tai Chi Training. Pilot funding for new research; Louisiana experimental program to stimulate competitive research. Sponsored by The National Science Foundation and the Louisiana Board of Regents. \$10,000
- 2007 Li, L. & **Hondzinski, J.M.** Balance and gait of people with peripheral neuropathy: A pilot study for a promising intervention modality. *The Neuropathy Association*. \$80,000
- 2007 Welsch, M., & **Hondzinski, J.M.** Linking Vascular Function to Physical Performance and Coordination in Individuals with Peripheral Neuropathy. *LSU Faculty Research Grant Program*. \$9,996.20 [wrong review section]
- 2006 **Hondzinski, J.M.**, & Klumpp, M. L. Quantifying Functional Effects of Vestibular Rehabilitation in Vestibular Patients. *National Institutes of Health, National Institute on Deafness and Other Communication Disorders Small Grant Program, R03*. \$217,210
- 2005 **Hondzinski, J.M.**, & Klumpp, M. L. Quantifying Functional Effects of Vestibular Rehabilitation in Vestibular Patients. *National Institutes of Health, National Institute on Deafness and Other Communication Disorders Small Grant Program, R03*. \$220,500

- 2005 Li, L., Aghazadeh, F., Harrison, L., **Hondzinski, J.M.**, Lopez, M.J., & Monroe, T. Field Motion Analysis Laboratory. *LSU Student Technology Grant*. \$90,072
- 2004 Wood, R.H., **Hondzinski, J.M.**, Klumpp, M., & Fabre, J. Vestibulocardiac Reflexes and Human Aging. *American Heart Association*, \$139,600
- 2003 Solmon, M., **Hondzinski, J.M.**, & Landin, D. Human Movement Instructional Laboratory. *Louisiana State University Student Technology Grant*. \$235,176
- 2003 Sodhi, M., Herv, J. Y., & **Hondzinski, J.M.** Development of Methods for In Situ Eye Movement Data Collection and Analysis. *National Science Foundation: Information Technology*, \$940,899
- 2003 Sodhi, M., **Hondzinski, J.M.**, Jenssen, G., & Lamond, B. Glance Analysis of Driver Eye Movements to Evaluate Driving Distraction. *American Automobile Association*. \$227,639 (qualified for top group to submit full proposal)
- 2002 Sodhi, M., **Hondzinski, J.M.**, Jenssen, G., & Lamond, B. Glance Analysis of Driver Eye Movements to Evaluate Driving Distraction. *American Automobile Association*. \$199,880 (qualified for top group to submit full proposal)
- 2001 **Hondzinski, J.M.** Do we look before we step? *LSU Summer Stipend Grant*. \$5,000
- 2000 **Hondzinski, J.M.** Neural Control of Whole Body Movement. *Individual National Research Service Award. Department of Health and Human Services*, \$218,160

#### *Funded travel*

- 2020-21 Travel Funds for collaborative research with Dr. Deanna Kennedy at Texas A&M University. *2020-21 Southeastern Conference (SEC) Faculty Travel Program*. \$2000.00
- 2002-2019 *LSU Office of Research and Graduate Studies*. \$10,250
- 2015-2022 *CHSE Dean's Auxiliary Faculty Research & Travel Grant Program*. \$6,632
- 2002-2013 *Campus Federal Credit Union Teaching Enhancement Funds*. \$1864

#### **Honors and Awards**

- 2022 *Keynote Lecturer*. 1st Annual Rehabilitation-Biomechanics Conference. Virtual meeting. [Shandong Sport University, Beijing, China] (also see above)
- 2021 *Senior Lecturer for the Motor Learning and Control*. North American Society for the Psychology of Sport and Physical Activity. Annual conference, virtual meeting (also see above)
- 2021(spring) *Sabbatical*. Department of Health and Kinesiology, Texas A&M University, College Station
- 2018-2019 *College of Human Sciences and Education Engagement Award*, Louisiana State University
- 2018 *First annual Dr. Alan Elkins Science Lecture*, Baton Rouge Community College (also see below)
- 2013-2014 *Helen "Bessie" Pliner Endowed Professorship*, Louisiana State University
- 2010-2011 *Flagship Faculty Award*, Louisiana State University



- 2010(spring) *Sabbatical*, Department of Kinesiology, University of Illinois, Chicago  
2005 *TIAA-CREF Service-learning Faculty Award*, Louisiana State University  
2003, 2015 Nomination for TAF Undergraduate Teaching Award  
1997-1998 *Lou Alley Scholarship*, Department of Exercise Science, University of Iowa  
1994 *Summer Graduate Fellowship*, Iowa Space Grant Consortium, NASA  
1993-1994 *McCloy Scholarship*, Department of Exercise Science, University of Iowa  
1982-1986 *Full-tuition Departmental Scholarship in Physical Education*, University of Utah

### **Professional Memberships**

- 1999-present Society for Neuroscience  
2003-present North American Society for Psychology of Sport and Physical Activity  
2001-2010 International Society of Biomechanics  
1994-97, 1999-2005 American Society of Biomechanics  
2003-2005 Southeast American College of Sports Medicine  
1995, 2002 American College of Sports Medicine  
1985 American Alliance for Health, Physical Education, Recreation and Dance

### **SERVICE**

#### **Professional Service**

##### *Editorial Boards:*

- 2022-present Review Editor, *Frontiers in Human Neuroscience—Motor Neuroscience*  
2017-present Executive Editor, *Journal of Motor Behavior*  
2012-2018 Associate Editor—*Motor Behavior*, *Research Quarterly for Exercise and Sport*  
2017 Article Editor, *Sage*  
2012-2013 Editorial Board, *Journal of Novel Physiotherapies*

##### *Ad hoc Manuscript Reviewer:*

- 2004 Academic Exchange Quarterly  
2004-2005 *Acta Psychologica*  
2018 *Disability and Rehabilitation*  
2008-2020 *European Journal of Applied Physiology*  
2006-2022 *Experimental Brain Research*  
2006, 2013 *Human Movement Science*  
2019 *International Journal of Kinesiology & Sports Science*  
2022 *Journal of Aging and Physical Activity*

2021	Journal of Alzheimer's Disease
2020-2022	Journal of Biomechanics
2010-2013	Journal of Gerontology Psychological Sciences
2017-2022	Journal of Motor Behavior
2016	Journal of Motor Learning and Development
2015-17, 2022	Journal of Physical Therapy
2012-2014	Journal of Rehabilitation Medicine
2018	Journal of Teaching in Physical Education
2018	Mathematical Biosciences and Engineering
2016-2017	Medicina
2007-2010	Motor Control
2017-2018	Neurorehabilitation & Neural Repair
2014	Neuroscience
2017, 2021-2	Neuroscience Letters
2008	Perception
2009-2014	Perceptual & Motor Skills: Psychological Reports
2013-2020	PLoS ONE
2011	Psychology of Sport & Exercise
2014-2017	Research Quarterly for Exercise and Sport
2020	WORK

*Reviewer for scholarly work:*

Committee member and abstract Reviewer for the Motor Learning and Control section for the 2018 Annual meeting of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)

Chapter review spring 2017: Motor Behavior in ACSM's Introduction to Exercise Science, third edition.

Committee member and abstract Reviewer for the Motor Control/Coordination and Rehabilitation section for the 2013 Annual meeting of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)

Performed motor control book review: sample chapter, fall 2010 for Holcomb Hathaway Publishers to determine the need for such a book.

Committee member and abstract Reviewer for the Motor Learning and Control section for the 2010 Annual meeting of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)

Abstract reviewer for the 2009 Annual meeting of the Eye Tracking Research and Applications (ETRA)

Committee member and abstract reviewer for the LSU Life Course and Aging Center (LCAC) Annual Conference—student abstracts (Reviewer chair 2005, 2008, 2012; Reviewer 2004-2006, 2008-2009, 2011- 2014, 2016)

Performed a comparative review of Chapter 14 The Cardiovascular System: The Heart in the anatomy text: Tortora, G. J., & Petti, K. *Principles of Human Anatomy*. New York: John Wiley & Sons, Inc. 2004

Abstract Reviewer for the 3<sup>rd</sup> Annual International Conference on Service-Learning Research. May 2003

*External Reviewer for Promotion and Tenure:*

University of Idaho, 2008  
Mississippi State University, 2019  
Mississippi State University, 2020  
Northwestern University, 2022

*Professional Critic:*

Solicited for professional advice regarding Neuroscience course content for the LSU Veterinary School, January 2012

Solicited for professional commentary regarding the research of Dr. David Burke (Harvard Medical School) for the Eagle-Tribune newspaper. See article: Discovering 'qi' By Julie Kirkwood, Monday, June 28, 2004. <http://www.eagletribune.com/framesets/search.htm>

*Committee Work for National/International Conferences:*

Study in Parkinson Disease of Exercise Phase 3 Clinical Trial: SPARX3 Adverse Events (AE) Adjudication committee 2021-present.

Motor Learning/Control section committee member for the 2018 Annual meeting of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)

Grant review for LSU Biomedical Collaborative Research Program (LBCRP) 2017-2018

Developmental perspectives: Motor Control/Coordination and Rehabilitation section committee member for the 2013 Annual meeting of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)

Motor Learning/Control section committee member for the 2010 Annual meeting of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA)

Session co-chair for the American Society of Biomechanics, 17<sup>th</sup> Annual Meeting, 1993

## **Committees and Involvement**

*University*

2018-present	Ogden Honors College Faculty Advisory Board member
2022-present	Ogden Honors College Faculty Fellow—Research representative from the College of Human Sciences and Education
2017-2021	Ogden Honors College Faculty Fellow—representative from the College of Human Sciences and Education
2014-present	Teach Robotics minors in KIN 4571
2007-present	LSU Graduate Committee member (Status: full member)
2004-2020	LSU Life Course and Aging Center LCAC member; Executive board member 2017-2020. Arranged for speaker for the 2010 annual luncheon; LCAC Enhancement Awards Committee member LCAC Annual Conference Committee—student committee, chair (2005, 2012); student poster committee member (2004, 2006, 2008-2009, 2011, 2013-2014,

- 2016). Chair of the LCAC Art/Logo Contest (2004); LCAC Newsletter editor (2006-2016). Also see some listed above
- 2006-2020 Faculty co-advisor for the student organization, Sigma Phi Omega Honor Society in Gerontology
- 2017-2018 Destination LSU; Lab tours for potential LSU students (11/20/17, 2/9/18, 4/14/18, 11/10/18)
- 2016 LSU Discover Day—honors student presentation; undergraduate research judge
- 2013-2014 Committee member; developed Robotics minor
- 2013 Southern Association of Colleges and Schools: Quality Enhancement Plan (SACS QEP) member
- 2011-2012 LSU Sociology Program Review; internal review member
- 2011-2012 LSU NCAA Internal Study; member of the Student-Athlete Experience subcommittee
- 2010 Member of LSU Interdisciplinary Research Advisory Council
- 2008-9, 2011-4 LSU School of Veterinary Medicine Phi Zeta Research; Judge
- 2008-2010 Member of LSU Program Review Council
- 2001-2007 LSU Graduate Committee member (status: associate member)
- 2005-2006 LSU Service-Learning Grants and Awards Committee member.
- 2005 Committee member for LSU Chancellor's Distinguished Lecture series, Dr Chodzko-Zajko
- 2002-2005 Service learning invited speaker. Focus session in 2005 and Workshops in 2002-2004.
- 2001-2004 LSU Policy, Planning and Resource Allocation Committee member

*College and Department/School*

- 2010-present Director of the LSU Modified Tai Chi Exercise Program (also see below)
- 2008-present Coordinator of the Motor Behavior graduate area specialization in the Department
- 2007-present Tenured Faculty Committee member
- 2001-present Director of the Sensorimotor/Motor Control Laboratory
- 2021-2022 Biomechanics search committee co-chair
- 2018-2019 Kinesiology Advisory Board member
- 2018-2019 Motor Learning and Biomechanics search committee chair-2 positions
- 2017-2018 Motor Behavior search committee member
- 2016-2017 Motor Behavior search committee member-2 positions
- 2015-2016 Motor Behavior search committee member-2 positions
- 2006-2015 College of Education Awards and Recognition Committee
- 2014-2015 Exercise Physiology search committee member-2 positions
- 2013-2014 Motor Behavior search committee member

2012-2013	Biomechanics search committee chair
2011-2012	Motor Development and Biomechanics search committee chair-2 positions
2010-2012	Established the LSU Parkinson's research program and support fund
2010-2012	Kinesiology Strategic Plan Committee member; undergraduate education
2006-2010	Kinesiology Awards Committee member
2011	Kinesiology Department Chair Search committee member
2010	Arranged visit for guest visit, including research lecture and grant advising session with Dr. Daniel Corcos
2008-2009	College of Education Dean's Advisory Board
2008-2009	Tenured representative for the Professional Practice Committee on "rank requirements", etc.
2008-2009	Motor Development search committee chair
2007-2008	Motor Learning search committee member
2007-2008	Exercise Psychology search committee member
2006-2007	Exercise Physiology search committee member
2003	Arranged visit for guest Speaker: Dr. W.G. Darling "Visual illusion effects on control of grasping and lifting"
2002-2003	Exercise Psychology search committee member
2001-2007	Kinesiology Technology Committee member
2001	Kinesiology Mission Statement Committee member

## Community Involvement

### *Consultant*

Initial contact 04/18/22: Consultant for a lawsuit. Wrote report on movement evaluation of slip video (submitted 5/26/2022). Richard Thalheim, Thalheim Law Associates

Initial contact 2017: Consultant for a lawsuit. Marco P. DiFlorio, Esq. of Salmon, Ricchezza, Singer & Turchi LLP

Initial contact 2022: Consultant/expert witness for a lawsuit. Richard

### *Panelist*

**Hondzinski, J.M.** (2016, September) *Brain healthy habits*. Environment & Health Council of Louisiana Workshop, Pennington Biomedical Center, Baton Rouge, LA

### *Invited Presentations*

**Hondzinski, J.M.** Understanding neural motor control: Do you have the nerve? Speakers: **Hondzinski, J. M.**, Allen, P.A., & Rossi, G. (2022, May). Presentation for the Aging Well in Louisiana Virtual Symposium (see above too)

**Hondzinski, J.M.** (2022, April 23<sup>rd</sup>) *Actions speak louder than words: Activity in Parkinson's disease*. Presentation for the Movers and Shakers (Parkinson's Support Group). Sage Rehabilitation Hospital & Outpatient Services, Baton Rouge, LA

- Hondzinski, J.M.** (2022, March 17<sup>th</sup>) *Actions speak louder than words: Activity in Parkinson's disease*. Presentation to The Baton Rouge Parkinson's Support Group, Bluebonnet Library, Baton Rouge, LA
- Hondzinski, J.M.** Aging well with exercise. Speakers: Allen, P.A., **Hondzinski, J. M.**, & Rossi, G. (2020, November). Presentation for the Aging Well in Louisiana Virtual Symposium (see above too)
- Hondzinski, J.M.** (2019, Feb 23<sup>rd</sup>) *Actual and potential non-medical "treatments" for Parkinson's disease: avoiding the nasty side effects*. Presentation for the Movers and Shakers (Parkinson's Support Group). Trinity United Methodist Church, Baton Rouge, LA
- Hondzinski, J.M.** (2019, Feb 18<sup>th</sup>) *Actual and potential non-medical "treatments" for Parkinson's disease: avoiding the nasty side effects*. Presentation for the Lafayette Parkinson Support Group. Our Lady of Lourdes Hospital, Lafayette LA
- Hondzinski, J.M.** (2018, Nov 15<sup>th</sup>) *Actual and potential non-medical "treatments" for Parkinson's Disease: avoiding the nasty side effects*. Presentation for the First annual Dr. Alan Elkins Science Lecture. Baton Rouge Community College, Baton Rouge, LA
- Hondzinski, J.M.** (2018, May 17<sup>th</sup>) *Specificity of Training, Not the Only Therapy Option for People with Parkinson's disease*. Presentation to The Baton Rouge Parkinson's Support Group, Bluebonnet Library, Baton Rouge, LA
- Hondzinski, J.M.** (2018, April 28<sup>th</sup>) *The Wild Blueberry Study*. Presentation for the Movers and Shakers (Parkinson's Support Group). Trinity United Methodist Church, Baton Rouge, LA
- Hondzinski, J.M.** (2015, November 9<sup>th</sup>) *Potential benefits of Tai Chi with emphasis on neurological populations*. Presentation to the Golden Opportunity group. Ochsner Medical Center, Baton Rouge, LA
- Hondzinski, J.M.** (2015, June 27<sup>th</sup>) *Adapting exercise for neurological populations: a motor behavioral perspective*. Presentation to Louisiana Exercise Physiologist group. Louisiana State University, Baton Rouge, LA
- Hondzinski, J.M.** (2013, October 16<sup>th</sup>) *"Moving it" to maintain physical function*. Presentation to Chronologically Gifted and Talented group. Broadmoor Presbyterian Church, Baton Rouge, LA
- Hondzinski, J.M.** (2013, September 19<sup>th</sup>) *Biomechanics of Parkinson's gait and exercise benefits*. Presentation to The Baton Rouge Parkinson's Support Group, Bluebonnet Library, Baton Rouge, LA
- Hondzinski, J.M.** and Cherry, K. E. (2013, May 15<sup>th</sup>) *Exercise and Dementia*. Presentation for the Lunch N Learn. Alzheimer's Services, Baton Rouge, LA
- Hondzinski, J.M.** (2013, April 27<sup>th</sup>) *"Moving it" to improve physical function in Parkinson's disease*. Presentation for the Movers and Shakers (Parkinson's Support Group). Trinity United Methodist Church, Baton Rouge, LA
- Hondzinski, J.M.** (2012, September 20<sup>th</sup>) *"Moving it" to improve physical function in Parkinson's disease*. Presentation to The Baton Rouge Parkinson's Support Group, Bluebonnet Library, Baton Rouge, LA
- Hondzinski, J.M.** (2011, June 16<sup>th</sup>) *Early analyses Parkinson's disease and Tai chi*. Presentation to The Baton Rouge Parkinson's Support Group, Bluebonnet Library, Baton Rouge, LA

**Hondzinski, J.M.** (2010, May 20<sup>th</sup>) *Outcomes from varied exercise protocols in Parkinson's*. Presentation to The Baton Rouge Parkinson's Support Group, Bluebonnet Library, Baton Rouge, LA

Kadivar, Z., & **Hondzinski, J.M.** (2008, August 21<sup>st</sup>) *Effectiveness of multi-directional stepping on movement control in Parkinson's disease*. Presentation to The Baton Rouge Parkinson's Support Group, Bluebonnet Library, Baton Rouge, LA

Kadivar, Z., & **Hondzinski, J.M.** (2007, November 15<sup>th</sup>) *Effectiveness of Auditory Stimulation on Movement Control in Parkinson's Disease*. Presentation to The Baton Rouge Parkinson's Support Group, Bluebonnet Library, Baton Rouge, LA

#### Other

- |              |   |
|--------------|---|
| 2022-present | Capital Area Parkinson's Activities Committee (CAPAC). Local committee to help with Parkinson's awareness and activities. (Support from Parkinson's Foundation, Davis Phinney Foundation, MJFF, etc.)   |
| 2020-present | Committee member for Capital Area Agency on <i>Aging Well in Louisiana Symposium</i> . For practitioners and others who work with older adults and are interested in learning different strategies to assist the elderly population.  |
| 2017-present | Committee chair (co-chair 2021) for the <i>Louisiana Parkinson's Conference</i> . For people interested in combating Parkinson's disease, including researchers, clinicians, people with the disorder, and caregivers. We present multiple successful strategies to attendees. It will help show that LSU is a key player in its support to combat Parkinson's disease. |
| 2016         | Helped get the College of Human Sciences and Education involved in the <i>Louisiana Parkinson's Conference</i> . With a lot of help from the college staff, we transferred the control from Pennington to LSU.  |
| 2015-2017    | Committee member for the <i>Louisiana Parkinson's Conference</i> . For people interested in combating Parkinson's disease, including researchers, clinicians, people with the disorder, and caregivers. We present multiple successful strategies to attendees. It will help show that LSU is a key player in its support to combat Parkinson's disease.                |
| 2010-present | Director of the LSU Modified Tai Chi Exercise Program for older adults with and without neurological deficits due to Parkinson's disease and peripheral neuropathy (also see above)   |
| 2005-2008    | Member for the Louisiana Fall Prevention Initiative   |
| 2005         | Exhibitor in the Baton Rouge <i>Life After 50 Expo</i>  |
| 2001-2007    | Established 8 community partnerships in local elementary/middle schools for the service-learning component in KIN 3517, where students present a neural related fact-and-activity session to local 4 <sup>th</sup> , 5 <sup>th</sup> and 6 <sup>th</sup> grade children.  |

## TEACHING

### Course development

KIN 3100 (ENGR 3100) Introduction to robotics (robotics group effort)

KIN 4103 (ENGR 4103) Assistive robotics (robotics group effort)  
KIN 7517 Advanced topics in motor control  
KIN 7999 Seminar in Selected Topics: Visuomotor control  
KIN 7999 Seminar in Selected Topics: Motor control and the vestibular system  
KIN 7999 Seminar in Selected Topics: Sensory systems and motor control

#### **Course development assistance**

KIN 4100 (ENGR 4100) Industrial robotics  
KIN 4200 (ENGR 4200) Autonomous vehicles  
KIN 4571 Neuromotor control of human movement (helped set it up as a 4000 level course)  
KIN 7420 Motor development across the lifespan  
KIN 7526 Advanced topics in biomechanics  
KIN 7532 Advanced topics in motor learning  
KIN 7612 Neuromuscular motor control

#### **Courses Taught**

*Louisiana State University, 2001-present.*

##### Graduate:

KIN 4571 Neuromotor control of human movement  
KIN 4900 Independent study  
KIN 7505 Problems in Physical Education  
KIN 7512 Motor control  
KIN 7517 Advanced topics in motor control  
KIN 7999 Seminar in Selected Topics: Visuomotor control  
KIN 7999 Seminar in Selected Topics: Motor control and the vestibular system  
KIN 7999 Seminar in Selected Topics: Sensory systems and motor control  
KIN 8000 Thesis hours  
KIN 8900 Independent research  
KIN 9000 Dissertation hours

##### Undergraduate:

KIN 2500 Human anatomy  
KIN 3517 Neuromotor control of human movement—incorporated a service-learning component 2001-2007 (changed to KIN 4571)  
KIN 4900 Independent study  
KIN 4571 Neuromotor control of human movement  
HNRS 4000 Thesis research



*University of Minnesota, 2001*

Graduate:

NS 6111 Neuroanatomy laboratory (TA)

*University of Iowa, 1992-8*

Graduate:

EX SCI 27:253 Advanced human (gross) anatomy

Undergraduate:

EX SCI 27:253 Advanced human (gross) anatomy

EX SCI 27:197 Introductory biomechanics (TA)

EX SCI 27:056 CPR/first aid

PE skills courses

*Cottonwood High School, (Utah) 1986-1992.*

Mathematics courses; Coached diving and throwing events (track)

### **Guest Lectures**

2017	KIN 4103 (ENGR 4103) Assistive robotics. Introduction to motion capture data collection and preparation.
2013-2014	KIN Introduction to the Discipline of Kinesiology for Chinese Students. An Introduction to Motor Behavior: Emphasis on Functional Control for People with Neurological Deficits.
2004-present	KIN 2501 History and philosophy of Kinesiology. Introduction to Motor Behavior: Motor Control. (most fall and spring semesters, some summers)

**Student Mentoring** (in progress\*, non-thesis completers", non-completers^, see above for thesis and dissertation completers)

Doctoral Graduate Students

*Major Professor:*

1. Julio (Ben) Morales\*
2. Kelly Rodriguez\*
3. Taylor Gauss\*
4. Molly Fischer (1 year)^
5. Megan Duet (1 year, enrolled in PA school)^
6. Yongqin Cui (4 years, enrolled in PT school)^
7. Janene Grodesky (2 years, then transferred areas/advisors)^

*Minor Professor:*

*Committee Member:*

1. Gary Sims\*
2. Charland Howard\*
3. John Hebert (dean's representative; School of Human Resource Education—2 years)^
4. Shivani Singh (1 year)^
5. Marc Reinhart (Biological Sciences-2 years)^

Master Graduate Students

*Major Professor:*

1. Andrew Killgore\*
2. Jacob Tidwell (1 semester, transferred)^
3. Mallory Pace (1 semester)^
4. Kevin Reusch (non-thesis, 2014)”
5. Mia Hegwood (non-thesis, 2013)”
6. Josh (Chase) Fish (non-thesis, 2013)”
7. Patti Prejean (non-thesis, 2012)”

*Committee Member:*

8. Emily Randon (non-thesis, 2021)”
9. Samuel Halle (non-thesis, 2018)”
10. Ariel Amedee (non-thesis, 2016)”
11. Caitlin McCurley (non-thesis, 2016)”
12. Shannon Martin (non-thesis, 2016)”
13. Kyle Rose (non-thesis, 2012)”
14. Yongqin Cui (non-thesis; Experimental Statistics, 2006)”
15. Robin Copper (non-thesis, 2005)”

*Non-matriculated or mentored graduate students in research:*

16. Monica LaForge(Rose) (mentor, Spring 2016-Summer 2017)
17. Casey Brown (mentor, 2015)”
18. Drew Gourley (non-matriculated, 2015)”
19. Genevieve Jones (non-matriculated; changed departments, summer 2014)”
20. William (Bill) Downs (post-graduation), Spring 2013
21. Mauren Carreno (non-matriculated)^
22. Ashish Nimbarte (project, Industrial Engineering, Spring-Summer 2004)”

**Undergraduate Students**

*Honor’s College Student; honors thesis advisor*

1. Tia Watts Spring 2021\*
2. Allison Dupuy, Fall 2020^
3. Jacob Schipper, Fall 2018 (switched to non-thesis)”
4. Jennifer Johnson (Chancellor’s Future Leaders in Research Program)—Freshman year only)^
5. Jennifer Harrison (Chancellor’s Future Leaders in Research Program)—Freshman year only)^

*Honor’s College Student; thesis committee*

*High School student project, university advisor*

1. Madeline Cannon (St Joseph’s Academy)\*
2. Claire Touns (St Joseph’s Academy)^

*Mentored 107 undergraduate students in research activities and/or Tai Chi help*