

School of Exercise and Nutritional Sciences  
 San Diego State University  
 5500 Campanile Drive, San Diego, CA, USA, 92182-7251

E-mail: [dgoble@mail.sdsu.edu](mailto:dgoble@mail.sdsu.edu)  
 Phone: 619-594-7272  
 Twitter: @DocGoble

### Education

- 2007                    **UNIVERSITY OF MICHIGAN**, Ann Arbor, MI, USA  
*PhD Kinesiology*  
 Concentration – Human Motor Control  
Dissertation Title: ‘Upper Limb Asymmetries in the Utilization of Sensory  
 Feedback for Goal-directed Movement’
- 2002                    **UNIVERSITY OF WINDSOR**, Windsor, ON, CAN  
*Master’s of Human Kinetics*  
 Concentration – Applied Human Performance  
Theses Title: ‘The influence of horizontal velocity on bilateral gait symmetry’
- 2000                    **UNIVERSITY OF WINDSOR**, Windsor, ON, CAN  
*Bachelor of Human Kinetics (Co-op with Honors)*  
 Concentration – Human Movement Science

### Related Work Experience

- 05/16 – present      Associate Professor of Exercise and Nutritional Sciences, San Diego State Univ, USA  
 03/14 – present      Founder and CSO, Balance Tracking Systems, San Diego, CA, USA  
 01/12 – 04/16        Assistant Professor of Exercise and Nutritional Sciences, San Diego State Univ, USA  
 05/10 – 01/12        Visiting Scholar, Physical Medicine and Rehabilitation, Univ of Michigan, USA  
 01/08 – 04/10        Post-doctoral Research Fellow, Motor Control Laboratory, KU Leuven, BE  
 09/07 – 01/08        Post-doctoral Research Assistant, Motor Control Laboratory, Univ of Michigan, USA  
 09/02 – 08/07        Graduate Research Assistant, Motor Control Laboratory, Univ of Michigan,  
 01/01 – 06/02        Graduate Research Assistant, Biomechanics Laboratory, Univ of Windsor, CAN

### Teaching Experience

#### *San Diego State University, USA*

- 08/15–present        ENS 307 – Motor Control, Learning and Performance  
 (3 cr) (~250 students)  
 • Primary instructor for core undergraduate course on the neurophysiology of movement,  
 learning of movement and movement-related disorders
- 01/13–present        ENS 610 – Biomechanical Techniques I  
 (3 cr) (~15 students)  
 • Primary instructor for graduate course dealing with the collection, analysis and presentation  
 of movement kinematics data
- 01/12–present        ENS 611 – Biomechanical Techniques II  
 (3 cr) (~15 students)  
 • Primary instructor for graduate course dealing with the collection, analysis and presentation  
 of movement kinetics data
- 08/12–present        ENS 612 – Biomechanical Techniques III  
 (3 cr) (~15 students)  
 • Primary instructor for graduate course dealing with the collection, analysis and presentation  
 of EMG data

- 01/15–present      ENS 613 – Motor Control and Rehabilitation Science  
(3 cr) (~15 students)
- Primary instructor for graduate seminar course dealing with the neurophysiology of movement and related movement disorders

*University of Michigan, USA*

- 09/05–12/07      MVS 320 – Motor Control Laboratory  
(2 cr) (~35 students)
- Developer and instructor for labs in core upper level course on human motor control focusing on applied concepts of motor function

- 09/04–04/05      MVS 110 – Motor Control Module  
(3 cr) (~75 students)
- Primary instructor for core introductory course on the neural control of human movement

- 09/02–04/04      MVS 110 – Biomechanics Module  
(3 cr) (~75 students)
- Primary instructor for core introductory course on the biomechanics of human movement

*University of Windsor, CAN*

- 01/02–05/04      95-380 – Biomechanics of Human Locomotion (Lab Section)  
(2 cr) (~50 students)
- Instructor for lab sections in applied biomechanics course focusing on human gait

Grants, Scholarships and Fellowships

*Current Support*

**1. License Agreement**

Funding Source: Balance Tracking Systems, San Diego, CA, USA  
Amount: \$500,000 upon any sale of the company + 3% of all BTrackS gross revenue  
Period: Indefinite (start: 06/14)  
Aim: Technology Transfer for patent pending of the Balance Tracking System

**2. Research Grant**

Funding Source: President's Leadership Fund – SDSU Campanile Foundation, USA  
Title: An Objective, Reliable and Accurate Solution for Fall Risk Assessment  
Role: Principal Investigator  
Amount: \$8660  
Period: Indefinite (start: 01/15)  
Aim: Development of an affordable gold standard balance test to determine fall risk.

*Previous Sources of Support*

**1. Research Grant**

Funding Source: Summer Undergraduate Research Program, San Diego State Univ, USA  
Title: Balance Tracking in Individuals with Stroke  
Role: Principal Investigator  
Amount: \$3,000  
Period: 05/16 – 08/16  
Aim: Collect pilot data on individuals with stroke using the Balance Tracking System (BTrackS).

**2. Research Grant**

Funding Source: Division of Undergraduate Studies, San Diego State Univ, USA  
Title: Creating a normative database for the Balance Tracking System (BTrackS)  
Role: Principal Investigator  
Amount: \$1,000  
Period: 02/16 – 05/16  
Aim: Collect normative data to establish percentile rankings for the Balance Tracking System Balance Test (BBT).

**3. Fellowship**

Funding Source: Grants and Research Enterprise Writing (GREW), San Diego State Univ, USA

Amount: \$3000

Period: 03/16 – 04/16

Aim: Assist in self-assessment and preparing of research career.

**4. Research Grant**

Funding Source: Summer Undergraduate Research Program, San Diego State Univ, USA

Title: Balance Tracking in Individuals with Disabilities

Role: Principal Investigator

Amount: \$3,000

Period: 05/15 – 08/15

Aim: Collect pilot data on individuals with disabilities using the Balance Tracking System (BTrackS).

**5. Research Grant**

Funding Source: California State University Innovation Corps, National Science Foundation, USA

Title: Commercialization pathways for a concussion assessment device

Role: Principal Investigator

Amount: \$2,500

Period: 03/15 – 07/15

Aim: Identify a promising product-market fit for the Balance Tracking System (BTrackS).

**6. Research Grant**

Funding Source: Division of Undergraduate Studies, San Diego State Univ, USA

Title: Effects of Fatigue on BTrackS balance assessment

Role: Principal Investigator

Amount: \$1,000

Period: 08/14 – 05/15

Aim: Determine the influence of fatigue on balance scores determined using the Balance Tracking System (BTrackS).

**7. Research Grant**

Funding Source: University Grants Program – SDSU Provost Office, SDSU Research Foundation and Adams Humanities Endowment, USA

Title: Efficacy of the Balance Tracking System (B-TrackS) for quantifying concussion-related balance deficits.

Role: Principal Investigator

Amount: \$9,987

Period: 18 months (start: 01/14)

Aim: Field-test BTrackS in ~ 200 athletes with elevated risk for concussion at San Diego State University.

**8. Research Grant**

Funding Source: President's Leadership Fund – SDSU Campanile Foundation, USA

Title: Commercialization of an Inexpensive Balance Assessment Device to Prevent and Diagnose Concussions

Role: Principal Investigator

Amount: \$9,777

Period: Indefinite (start: 05/13)

Aim: Development of a low cost balance board to improve concussion-based balance testing.

**9. Sub-contract**

Funding Source: Elusis Benefit Corporation. USA

Title: Effects of LSD on Older Adults.

Role: Principal Investigator

Amount: \$16,088

Period: 07/14 – 07/15

Aim: Measurement of balance and proprioception in response to microdoses of LSD.

**10. Research Grant**

Funding Source: Zahn Center for Innovation

Title: Zahn Challenge for Entrepreneurs

Role: Principal Investigator

Amount: \$7,000

Period: Indefinite (start: 01/14)

Aim: Development of a balance tracking system (BTrackS) to improve balance testing.

### **11. Research Grant**

Funding Source: National Skeletal Muscle Research Center, UCSD, USA

Title: Muscle spindle-related brain activity enhancement via balance training in the elderly

Role: Principal Investigator

Amount: \$25,000

Period: 08/12-05-14

Aim: To determine behavioral and brain activity-based changes in ankle proprioception following 6 weeks of Wii Fit balance training in older adults.

### **12. Research Grant**

Funding Source: University Grants Program – SDSU Provost Office, SDSU Research Foundation and Adams Humanities Endowment, USA

Title: Validity and Reliability of a Novel Device to Objectively Quantify Concussions

Role: Principal Investigator

Amount: \$9,977

Period: 01/13-06/14

Aim: Validate a balance assessment device for Concussions that uses a Wii Balance Board.

### **13. Sub-contract**

Funding Source: Leidos

Title: A Balance Tracking System (BTrackS) for measuring body sway during shooting.

Role: Principal Investigator

Amount: \$15,789

Period: 01/13 – 04/13

Aim: Development of a center of pressure measurement device capable of recording body sway during rifle shooting.

### **14. Research Grant**

Funding Source: University Grants Program – SDSU Provost Office, SDSU Research Foundation and Adams Humanities Endowment, USA

Title: Improving older adult balance via Wii Fit training: the role of proprioception

Role: Principal Investigator

Amount: \$9,990

Period: 01/12-05/13

Aim: To determine whether improvement of balance following Wii Fit training by older adults is accompanied by improvement in ankle proprioception.

### **15. Research Grant**

Funding Source: Scientific Fund for Research - Flanders (FWO), BE

Title: Aging and executive control mechanisms: neural structure-function relationships for inhibitory control of bimanual actions

Role: Co-investigator

Principal Investigator: Stephan P. Swinnen

Amount: 432,500 EUR

Period: 3 years (start: 11/09)

Aim: Address the processes involved in management of complex tasks, as well as the recruitment of inhibitory networks that become affected with aging.

### **16. Sub-contract**

Funding Source: Reflexion Health, USA

Title: Comparing motion capture data from a Kinect Camera with an advanced 3D capture system

Role: Principal Investigator

Amount: \$5,547

Period: 01/13 – 01/13

Aim: Validity testing of at home rehabilitation device.

### **17. Post-doctoral Fellowship**

Funding Source: Canadian Institutes of Health Research – Institutes of Aging, CAN

Mentors: Stephan P. Swinnen (Initial), Edward A. Hurvitz (Secondary)

Amount: Salary +5000 CAD/year operating budget

Period: 04/10 – 01/12

Aim: Determination of age-related differences in proprioception-related neural functioning.

**18. Post-doctoral Fellowship**

Funding Source: Scientific Fund for Research - Flanders (FWO), BE

Mentor: Stephan P. Swinnen

Amount: Salary + 4000 EUR/year operating budget

Period: 10/09 – 04/10

Aim: Quantify age-related differences in proprioception-related neural functioning.

**19. Post-doctoral Fellowship**

Funding Source: K.U. Leuven Research Fund, BE

Mentor: Stephan P. Swinnen

Amount: Salary

Period: 01/09 – 09/09

Aim: Characterize the effects of aging on upper limb proprioceptive functioning as they relate to brain activation in the elderly.

**20. Post-doctoral Fellowship**

Funding Source: Scientific Fund for Research - Flanders (FWO), BE

Mentor: Stephan P. Swinnen

Amount: Salary

Period: 01/08 – 01/09

Aim: Determine relationship between upper limb coordination and brain activation in the elderly using functional magnetic resonance imaging (fMRI).

**21. Pre-doctoral Fellowship**

Funding Source: Rackham Graduate School, Univ of Michigan, USA

Mentor: Susan H. Brown

Amount: Salary + tuition

Period: 05/06 – 04/07

Aim: Conduct dissertation research involving upper limb asymmetries in the utilization of different types of sensory feedback.

**22. PhD Fellowship**

Funding Source: Division of Kinesiology, Univ of Michigan, USA

Mentor: Susan H. Brown

Amount: Salary + tuition

Period: 09/02 – 05/06

Aim: Study and conduct research in the area of human movement science with an emphasis on upper limb motor control.

**23. Student Grant**

Funding Source: Blue Cross Blue Shield of Michigan, USA

Role: Principal Investigator

Amount: 3,000 USD operating budget

Period: 05/03 – 08/04

Aim: Quantitatively assess the motor and sensory contributions to bilateral movement of the upper extremities in children with spastic hemiparesis.

**24. Spring/Summer Fellowship**

Funding Source: Division of Kinesiology, Univ of Michigan, USA

Mentor: Susan H. Brown

Amount: Salary + tuition

Period: 09/02 – 05/06

Aim: Conduct research comparing reaching in children with brachial plexus palsy and cerebral palsy.

**25. Ontario Graduate Scholarship (Science and Technology)**

Funding Source: Ministry of Training, Colleges and Universities, CAN

Mentor: G. Wayne Marino

Amount: Salary + tuition

Period: 09/02 – 09/03

Aim: Study and conduct post-thesis research on biomechanics of normal walking gait.

## 26. Ontario Graduate Scholarship (Science and Technology)

Funding Source: Ministry of Training, Colleges and Universities, CAN

Mentor: G. Wayne Marino

Amount: Salary + tuition

Period: 01/01 – 08/02

Aim: Study and conduct thesis research on human biomechanics of walking gait.

### Research Publications and Review Articles (refereed journals)

1. Hearn M, Levy S, Baweja S, **Goble DJ**. (under review). The BTrackS Balance Test for Concussion Management is Resistant to Practice Effects. *Clin J Sport Med*.
2. **Goble DJ**, Hearn M, Baweja S. (2017). Using the Balance Tracking System and Geri-Fit as a targeted approach for assessing and reducing the postural sway of older adults with high fall risk. *Clin Interv Aging 12*: 351-357.
3. Benedict S, Hinshaw JW, Byron-Fields R, Baweja HS, **Goble DJ**. (in press). Effects of Fatigue on the BTrackS Balance Test for Concussion Management. *J Athl Ther Train*.
4. Domingo A, Diek M, Maluf K, Goble KM, **Goble DJ**, Baweja HS. (2017). Short Duration Therapeutic Massage reduces Postural Upper Trapezius Muscle Activity. *NeuroReport 28*: 108-110.
5. O'Connor SO, Baweja HS, **Goble DJ**. (2016). Validation of the BTrackS Balance Plate as a low cost alternative for the measurement of sway-induced center of pressure. *J Biomech 49*: 4142-4145.
6. Cone, BL, **Goble DJ**, Rhea CK. (2017). Relationship between changes in vestibular sensory reweighting and postural control complexity. *Exp Brain Res 235*:547=554.
7. **Goble DJ**, Manyak KA, Abdenour TE, Rauh MJ, Baweja HS. (2016). An initial evaluation of the BTrackS Balance Plate and Sports Balance Software for Concussion Diagnosis. *Int J Sport Phys Ther 11(2)*:149-155.
8. Craig CE, **Goble DJ**, Dumas M. (2016). Proprioceptive acuity predicts muscle co-contraction of the tibialis anterior and gastrocnemius medialis in older adults' dynamic postural control. *Neurosci 322*:251-261.
9. Coxon JP, **Goble DJ**, Leunissen I, Van Impe A, Wenderoth N, Swinnen SP. (2016). Functional Brain Activation Associated with Inhibitory Control Deficits in Older Adults. *Cereb Cortex 26(1)*:12-22.
10. Cone BL, Levy SS, **Goble DJ**. (2015). Wii Fit exer-game training improves sensory weighting and dynamic balance in healthy young adults. *Gait Posture 41(2)*:711-715.
11. Graham SA, Abbott AE, Lincoln AJ, Mueller RA, **Goble DJ**. (2015). The influence of task difficulty and participant age on balance control in ASD. *J Autism and Dev Disorder 45(5)*:1419-1427.
12. Gonzales TI, **Goble DJ**. (2014). Short-term adaptation of joint position sense occurs during and after sustained vibration of antagonistic muscle pairs. *Front Hum Neurosci 8*:896.
13. Komatireddy R, Choskshi A, Basnett J, Casale M, **Goble DJ**, Shubert TE. (2014). Quality and quantity of rehabilitation exercises delivered by a 3-D motion controlled camera: A pilot study. *Int J Phys Med Rehab 2*:4.
14. Chang JO, Levy S, Seay S, **Goble DJ**. (2014). An alternative to the Balance Error Scoring System: Using a low-cost balance board to improve the Validity/Reliability of sports-related concussion balance testing. *Clin J Sport Med 24(3)*:256-262.
15. **Goble DJ**, Cone BL, Thurman J, Corey-Bloom J. (2014). Balance declines may predict relapse onset in Multiple Sclerosis – a case study. *J Dev Phys Disabil 26(2)*:145-150.
16. **Goble DJ**, Cone BL, Fling BW. (2014). Using the Wii Fit as a tool for balance assessment and neurorehabilitation: the first half decade of "Wii-search". *J Neuroeng Rehabil 11*:12.
17. Heitger MH, **Goble DJ**, Dhollander T, Dupont P, Swinnen SP. (2013). Bimanual motor coordination in older adults is associated with increased functional brain connectivity – a graph-theoretical analysis. *PLOS ONE 8(4)*:e621133.

18. **Goble DJ**, Aaron MB, Warschausky S, Kaufman J, Hurvitz EA. (2012). The influence of spatial working memory on ipsilateral remembered proprioceptive matching in adults with cerebral palsy. *Exp Brain Res* 223(2):259-269.
19. **Goble DJ**, Mousigian M, Brown SB. (2012). Compromised encoding of proprioceptively determined joint positions in older adults: The role of working memory and cognitive loading. *Exp Brain Res* 216(1):35-40.
20. **Goble DJ**, Coxon JP, Van Impe A, Guerts M, Van Hecke W, Sunaert S, Wenderoth N, Swinnen SP. (2012). The neural basis of central proprioceptive processing in older versus younger adults: an important sensory role for right putamen. *Hum Brain Mapp* 33(4):895-908.
21. Van Impe A, Coxon JP, **Goble DJ**, Doumas M, Swinnen SP. (2012). White matter fractional anisotropy predicts balance performance in older adults. *Neurobiol Aging* 33(9):1900-1912.
22. **Goble DJ**, Coxon JP, Van Impe A, Guerts M, Doumas M, Wenderoth N, Swinnen SP. (2011). Brain activity during ankle proprioceptive stimulation predicts balance performance in young and older adults. *J Neurosci* 31(45):16344-16352.
23. Van Impe A, Coxon JP, **Goble DJ**, Wenderoth N, Swinnen SP. (2011). Age-related changes in brain activation underlying single- and dual-task performance: visuomanual drawing and mental arithmetic. *Neuropsychologia* 49(9):2400-2409.
24. Ronsse R, Puttemans v, Coxon JP, **Goble DJ**, Wagemans J, Wenderoth N, Swinnen SP. (2011). Motor learning with augmented feedback: modality dependent behavioral and neural consequences. *Cereb Cortex*, 21(6):1283-1294.
25. **Goble DJ**, Anguera JA. (2010). Plastic changes in hand proprioception following force-field motor learning. *J Neurophysiol* 104:1213-1215.
26. Coxon JP, **Goble DJ**, Van Impe A, Wenderoth N, Swinnen SP. (2010). Reduced basal ganglia function when elderly switch between coordinated movement patterns. *Cereb Cortex*, 20:2368-2379.
27. **Goble DJ**, Noble BC, Brown SH (2010). Where was my arm again? Memory-based matching of proprioceptive targets is enhanced by increased target presentation time. *Neurosci Lett* 48(1):54-58.
28. **Goble DJ**. (2010). Assessment of proprioceptive acuity via joint position matching: From basic science to general practice. *Phys Ther* 90(8):1176-1184.
29. **Goble DJ**, Coxon JP, Van Impe A, De Vos J, Wenderoth N, Swinnen SP. (2010). The neural control of bimanual movements in the elderly: brain regions exhibiting overactivation, compensation and frequency induced neural modulation. *Hum Brain Mapp* 31(8):1281-1295.
30. **Goble DJ**, Brown SB. (2010). Upper limb asymmetries in the proprioceptively-guided matching of dynamic position. *J Exp Psychol – Hum Percept Perf* 36(3):768-775.
31. Swinnen SP, Vangheluwe S, Wagemans J, Coxon JP, **Goble DJ**, Van Impe A, Sunaert S, Peeters R, Wenderoth N. (2010). Shared neural resources between left and right interlimb coordination skills: the neural substrate of abstract motor representations. *Neuroimage* 49(3):2570-2580.
32. **Goble DJ**, Hurvitz EA, Brown SH. (2009). Deficits in the ability to utilize proprioceptive feedback in children with hemiplegic cerebral palsy. *Int J Rehabil Res* 32(3): 267-269.
33. **Goble DJ**, Noble BC, Brown SB. (2009). Proprioceptive position matching asymmetries in left-handed individuals: Effects of processing demands and target amplitude. *Exp Brain Res* 197(4):403-408.
34. Van Impe A, Coxon JP, **Goble DJ**, Wenderoth N, Swinnen SP. (2009). Ipsilateral coordination at preferred rate: Effects of age, body side and task complexity. *Neuroimage* 47(4):1854-62.
35. **Goble DJ**, Brown SH. (2009). Dynamic proprioceptive target matching behaviour in the upper limb: task complexity and arm/hemisphere asymmetries. *Behav Brain Res* 200:7-14.
36. **Goble DJ**, Coxon JP, Wenderoth N, Van Impe A, Swinnen SP. (2009). Proprioceptive sensibility in the elderly: Degeneration, functional consequences and plastic adaptive processes. *Neurosci Biobehav Rev* 33:271-278.

37. **Goble DJ**, Brown SH. (2008) Upper limb asymmetries in the matching of proprioceptive versus visual targets. *J Neurophysiol* 99 3063-3074.
38. **Goble DJ**, Brown SH. (2008). The biological and behavioral basis of upper limb asymmetries in sensorimotor performance. *Neurosci Biobehav Rev* 32(3):598-610.
39. **Goble DJ**, Brown SH. (2007). Task dependent upper limb asymmetries in the utilization of proprioceptive feedback for goal directed movement. *Exp Brain Res* 180:693-704.
40. **Goble DJ**. (2006). The potential for utilizing inter-limb coupling in the rehabilitation of motor disability due to unilateral brain injury. *Disabil Rehabil* 28(18): 1103-1108.
41. **Goble DJ**, Lewis CA, Brown SH. (2006). Upper limb asymmetries in the utilization of proprioceptive feedback. *Exp Brain Res* 168: 307-311.
42. **Goble DJ**, Lewis CA, Hurvitz EA, Brown SH. (2005). Development of upper limb proprioceptive accuracy in children and adolescents. *Hum Mov Sci*, 24(2): 155-170.
43. **Goble DJ**, Marino GW, Potvin JR. (2003). The influence of horizontal velocity on interlimb symmetry in normal walking. *Hum Mov Sci*, 22(3): 271-283.

#### Patents

1. **Goble DJ**. Detecting clinically relevant changes in balance. (Pending). OMB 0651-0032

#### Book Chapters

1. Swinnen SP, Heuninckx S, Van Impe A, **Goble DJ**, Coxon JP, Wenderoth N. (2010). Aging and movement control: the neural basis of age-related compensatory recruitment. Oxford University Press.

#### Published Letters to the Editor

1. **Goble DJ**, Brown SH. (2008). Reply to Dr Derakhshan. *J Neurophysiol* 100(6):3459.
2. **Goble DJ**. (2007). The validity of using reaction time as a basis for determining motor laterality. *J Neurophysiol* 97(2): 1868.

#### Manuscripts in Progress

1. Corey-Bloom J, Herndon A, Gilbert P, **Goble DJ**. (In preparation). Using a Wii Balance board to measure disease onset in Huntington's disease. *Move Dis*.

#### Conference Proceedings

1. Park S, Corey-Bloom J, Nam S, Haque A, Nathan A, Howell S, Snell C, Zima L, Phung L, Gilbert P, **Goble DJ**. (2017) The Balance Tracking System (BTrackS) Measures Disease Progress and Fall Risk in Huntington's Disease. Poster presentation at the *American Academy of Neurology*.
2. Schleich KN, Duffy DM, Ross SE, **Goble DJ**, Rhea CK. (2017) Preseason balance differences among collision, contact, and limited contact sport female athletes. Podium presentation at the *International Association for Physical Education and Sport for Girls and Women, Miami, FL*.
3. Baweja HS, Romero M, Castagner E, Kress A, Vasko B, Rabanal MJ, Rauh M, **Goble DJ**. (2017) Lifespan normative data for the BTrackS Balance Test. Poster presented at the *Combined Sections Meeting, American Physical Therapy Association, San Antonio, TX*.



4. Burke MM, Taylor BP, Erram JS, Filoteo JV, Gilbert PE, **Goble DJ**, Baweja HS. (2016) Postural control with concurrent cognitive tasks in Parkinson's disease patients. *Poster at the 46<sup>th</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA.*
5. Erram JS, Taylor BP, Gilbert PE, **Goble DJ**, Baweja HS. (2016) Dual-tasking diverts attention from postural control in older adults. *Poster at the 46<sup>th</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA.*
6. Soria SM, Rauh MJ, **Goble DJ**, Baweja HS. (2016) Acute postural control deficits in Division I college athletes following mild concussions. *Poster at the 46<sup>th</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA.*
7. Frenchik CA, Soria SM, Rauh MJ, **Goble DJ**, Baweja HS. (2016) Normative data for the BTrackS Sports Balance Test in school and college athletes. *Poster at the 46<sup>th</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA.*
8. 5. Graff CD, Baweja HS, **Goble DJ**. (2016) Implementation of BTrackS for assessment of balance in individuals with stroke. *Poster at the 46<sup>th</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA.*
9. Levy SS, Thralls KJ, **Goble DJ**. (2016) reliability and validity of a portable balance tracking system (BTrackS) in older adults. *Poster at the 37<sup>th</sup> Annual Meeting of the Society of Behavioral Medicine.*
10. Cone BC, **Goble DJ**, Rhea C. (2016) Postural control complexity is associated with enhanced balance and improved vestibular function following a balance intervention. *Podium at the 40<sup>th</sup> Annual Meeting of the American Society of Biomechanics, Raleigh, North Carolina.*
11. Blair DM, McKnight J, Hooper J, Adamian A, **Goble DJ**, Beachy G, Rauh MJ. (2015) Positional injury incidence among interscholastic baseball players: A longitudinal study. *J Orthop Sports Phys Ther* 2016;46(1):A31. 2016 *Combined Sections Meeting, American Physical Therapy Association, Anaheim, CA.*
2. Frenchik C, Soria S, Schulman S, Picardi D, **Goble DJ**, Baweja HS. (2015) Maturation of postural sway is not influenced by body mass index or gender. *Poster at 45<sup>th</sup> Annual Meeting of the Society for Neuroscience.*
3. Herndon A, Corey-Bloom J, Lam A., Gilbert P, **Goble DJ**. (2015). Using a Wii Balance Board to measure disease onset in Huntington's disease. *Poster at 67<sup>th</sup> Annual Meeting of the American Academy of Neurology.*
4. Herndon A, Corey-Bloom J, Lam A, Heil C, Nam S, Gilbert, P, **Goble DJ**. (2015). Using a brief balance assessment to estimate disease onset in Huntington's disease. *Poster presented at 19<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders.*
12. Herndon A, Corey-Bloom J, Paik K, Lam A, Nam S, Gilbert P, **Goble DJ**. (2014). Measuring disease onset in Huntington's Disease using a low-cost balance assessment. *Poster presented at 8<sup>th</sup> Annual Huntington's Disease Clinical Research Symposium of the Huntington Study Group.*
13. Herndon A, Corey-Bloom J, Huynh S, Cho J, Nam S, Howell S, Gilbert P, **Goble DJ**. Using a Wii Balance Board to measure disease onset in Huntington's disease. (2014). *Poster presented at 139<sup>th</sup> Meeting of the American Neurological Association.*
14. Breen E, Herndon A, Lam A, Gilbert P, **Goble DJ**, Corey-Bloom J. Assessing cognitive deficits in Huntington's Disease with the Repeatable Battery for the Assessment of Neuropsychological Status (RBANS). (2014). *Poster presented at 139<sup>th</sup> Meeting of the American Neurological Association.*
15. Corey-Bloom J, Herndon A, Barrios C, Breen E, Huynh S, Lam A, **Goble DJ**, Gilbert P. Screening for behavioral disturbances using the UCSD Huntington's Disease-Behavioral Questionnaire (HD-BQ). (2014). *Poster presented at 139<sup>th</sup> Meeting of the American Neurological Association.*
16. Herndon A, Corey-Bloom J, Paik K, Lam A, Nam SK, Gilbert P, **Goble DJ**. (2014). Measuring disease onset in Huntington's disease using a low-cost balance assessment. *Poster presented at the 8<sup>th</sup> annual Huntington Disease Clinical Research Symposium.*
17. Herndon A, Corey-Bloom J, Scholl M, Burt D, Huynh S, **Goble DJ**. (2014). Estimating Huntington's disease (HD) onset using a low-cost balance assessment. *Poster presented at the 66<sup>th</sup> annual meeting of the American Academy of Neurology.*

18. McKnight JS, Beachy G, Adamian A, Blair DM, Hooper JK, Rosenthal MD, **Goble DJ**, Rauh MJ. (2014) Injury incidence among interscholastic baseball players. *Poster presented at the combined sections meeting of the American Physical Therapy Association.*
19. **Goble DJ**, Konczak J, Bastain A, Ostry D. (2014). Proprioception: New insights on its neural basis, its dysfunction and training. *Oral presentation at the 24<sup>th</sup> annual meeting of the Society for the Neural Control of Movement.*
20. Gonzales T, **Goble DJ**. (2013). Can a frequency band approach induce noise during simultaneous agonist/antagonist tendon vibration at the elbow joint? *Poster presented at the 43<sup>th</sup> annual meeting of the Society for Neuroscience.*
21. Abbott A, Keown C, Nair A, Koor G, Kirtland S, **Goble DJ**, Axel-Mueller R. Impaired functional connectivity in networks underlying balance in Autism Spectrum Disorders. (2013) *Poster presented at the 43<sup>th</sup> annual meeting of the Society for Neuroscience.*
22. Cone BL, **Goble DJ**. (2013). An investigation of the sensory mechanisms behind Wii Fit balance training improvements. *Poster presented at the 43<sup>th</sup> annual meeting of the Society for Neuroscience.*
23. Gonzales T, **Goble DJ**. (2013). Agonist/Antagonist tendon vibration at the elbow induces proprioceptive bias – but does not elicit noise. *Poster presented at the 23<sup>rd</sup> annual meeting of the Society for the Neural Control of Movement.*
24. Nair A, Kirtland S, Abbott AE, **Goble DJ**, Axel-Mueller R. (2013). Impaired balance correlated with repetitive behavior severity in Autism Spectrum Disorders. *Poster presented at the 41<sup>st</sup> annual meeting of the International Neuropsychological Society.*
25. Gonzalez T, Aaron MB, Brown SH, Henriques DY, **Goble DJ**. (2012). Can agonist/antagonist tendon vibration be used as a proxy for proprioceptive noise at the elbow joint? *Poster presented at the 42<sup>th</sup> annual meeting of the Society for Neuroscience.*
26. **Goble DJ**, Aaron MB, Kaufman J, Warschausky S, Langan JM, Hurvitz EA. (2011). The effects of target duration on memory-based elbow joint position matching in healthy adults and individuals with cerebral palsy. *Poster presented at the 41<sup>th</sup> annual meeting of the Society for Neuroscience.*
27. Brown SH, Cohen JA, **Goble DJ**. (2011). Effects of short-term immobilization on upper limb proprioceptive acuity. *Poster presented at the 41<sup>th</sup> annual meeting of the Society for Neuroscience.*
28. Heitger MH, **Goble DJ**, Dhollander T, Dupont P, Swinnen SP. (2011). Graph-theoretical analysis of functional brain connectivity during bimanual coordination in the elderly. *Poster presented at the 17<sup>th</sup> annual meeting of the Organization for Human Brain Mapping.*
29. **Goble DJ**, Coxon JP, Van Impe A, Wenderoth N, Swinnen SP. (2010). Proprioceptive processing and the role of right putamen in young and older adults. *Poster presented at the 40<sup>th</sup> annual meeting of the Society for Neuroscience.*
30. Coxon JP, **Goble DJ**, Van Impe A, Wenderoth N, Swinnen SP. (2010). The neural basis of age-related differences in cognitive control over action. *Poster presented at the 40<sup>th</sup> annual meeting of the Society for Neuroscience.*
31. Van Impe A, Coxon JP, **Goble DJ**, Wenderoth N, Swinnen SP. (2010). Aging and dual-task Performance: Simultaneous visuomotor tracking and mental arithmetic. *Poster presented at the 40<sup>th</sup> annual meeting of the Society for Neuroscience.*
32. Coxon JP, **Goble DJ**, Van Impe A, Wenderoth N, Swinnen SP. (2010). Age-related differences in cognitive control over action: Event-related fMRI of response inhibition. *Poster presented at the 16<sup>th</sup> annual meeting of the Organization for Human Brain Mapping.*
33. **Goble DJ**, Coxon JP, Van Impe A, Wenderoth N, Swinnen SP. (2009). The neural control of bimanual movements in the elderly: brain regions exhibiting overactivation, compensation and frequency induced neural modulation. *Poster presented at the 39<sup>th</sup> annual meeting of the Society for Neuroscience.*
34. Coxon JP, **Goble DJ**, Van Impe A, Wenderoth N, Swinnen SP. (2009). AGE-ILITY: Basal ganglia function when elderly switch between coordinated movement patterns. *Poster presented at the 39<sup>th</sup> annual meeting of the Society for Neuroscience.*

35. Van Impe A, Coxon JP, **Goble DJ**, Wenderoth N, Swinnen SP. (2009). Ipsilateral coordination at preferred rate: Effects of age, body side and task complexity. *Poster presented at the 39<sup>th</sup> annual meeting of the Society for Neuroscience.*
36. Noble BC, Brown SB, **Goble DJ**. (2009). Enhancement of sensory memory during position matching tasks: Increased acuity with prolonged exposure to target stimuli. *Poster presented at the 39<sup>th</sup> annual meeting of the Society for Neuroscience.*
37. Coxon JP, **Goble DJ**, Van Impe A, Wenderoth N, Swinnen SP. (2009). Age-ility: Basal ganglia function when elderly switch between coordinated movement patterns. *Poster presented at the Progress in Motor Control VII meeting.*
38. **Goble DJ**, Coxon JP, Van Impe A, Wenderoth N, Swinnen SP. (2009). Bimanual coordination and neural overactivation in the elderly. *Poster presented at the Progress in Motor Control VII meeting.*
39. **Goble DJ**, Noble BC, Brown SH. (2008). Non-preferred arm dominance for proprioceptive matching in left-handers. *Poster presented at the 38<sup>th</sup> annual meeting of the Society for Neuroscience.*
40. Brown SB, **Goble DJ**, Hurvitz EA. (2008). Hemispheric asymmetries in the ability to utilize position-related proprioceptive feedback in hemiplegic cerebral palsy. *Poster presented at the annual meeting of the Society for the Neural Control of Movement.*
41. **Goble DJ**, Brown. (2007). Movement accuracy during the matching of dynamic proprioceptive feedback. *Poster presented at the 37<sup>th</sup> annual meeting of the Society for Neuroscience.*
42. **Goble DJ**, Brown SH. (2007). Non-preferred arm advantages in the coordination of static and dynamic proprioceptive feedback. *Poster presented at the Progress in Motor Control VI meeting.*
43. **Goble DJ**, Brown SH. (2006). Asymmetries in the accuracy of matching visual versus proprioceptively-determined target arm positions. *Poster presented at the 36<sup>th</sup> annual meeting of the Society for Neuroscience.*
44. Quinn-Walsh CM, Bangert AS, **Goble DJ**, Boonin AE, Seidler RD. (2006). Age-related changes in brain recruitment patterns for unimanual and bimanual motor control. *Poster presented at the University of Michigan Institute of Gerontology annual symposium.*
45. **Goble DJ**, Brown SH. (2005). The effects of start position on the accuracy of proprioceptively-guided movements. *Poster presented at the 35<sup>th</sup> annual meeting of the Society for Neuroscience.*
46. Lewis CA, **Goble DJ**, Hurvitz EA, Brown SH. (2005). Proprioceptive acuity and multi-joint coordination in hemiplegic cerebral palsy. *Poster presented at the annual meeting of the American Congress of Rehabilitation Medicine.*
47. **Goble DJ**, Hurvitz EA, Nelson VS, Brown SH. (2005). Upper limb coordination in children with congenital brachial plexus palsy. *Poster presented at the annual meeting of the American Congress of Rehabilitation Medicine.*
48. Lewis CA, **Goble DJ**, Hurvitz EA, Brown SH. (2005). Sensorimotor coordination in children with hemiplegic cerebral palsy. *Poster presented at the annual meeting of the American Academy of Physical Medicine and Rehabilitation.*
49. **Goble DJ**, Hurvitz EA, Nelson VS, Brown SH. (2005). Bilateral facilitation of upper limb movements in children with congenital brachial plexus palsy. *Oral presentation given at the annual meeting of the American Academy of Physical Medicine and Rehabilitation.*
50. **Goble DJ**, Brown SH. (2005). Limb specific differences in the ability to utilize active versus passive proprioceptive target information. *Poster presented at the Progress in Motor Control V meeting.*
51. **Goble DJ**, Brown SH. (2005). Limb asymmetries in proprioceptive matching performance during tasks of varying complexity. *Poster presented at the annual meeting of the Society for the Neural Control of Movement.*
52. Walsh CM, Bangert AS, **Goble DJ**, Boonin AE, Noll DC, Reuter-Lorenz PA, Seidler RD. (2005). Age-related brain activation changes on a unimanual and bimanual tapping task. *Poster presented at the Wayne State University Institute of Gerontology, University of Michigan Institute of Gerontology & Michigan Alzheimer's Disease Research Center Joint symposium.*

53. **Goble DJ**, Chesney JD, Lewis CA, Brown SH. (2004). Limb asymmetries during passive but not active proprioceptive matching. *Poster presented at the 34<sup>th</sup> annual meeting of the Society for Neuroscience.*
54. Lewis CA, **Goble DJ**, Hurvitz EA, Brown SH. (2004). Proprioceptive acuity in children with mild spastic hemiparesis. *Poster presented at the 34<sup>th</sup> annual meeting of the Society for Neuroscience.*
55. Bangert AS, Walsh CM, Boonin AE, Anderson E, **Goble DJ**, Reuter-Lorenz PA, Seidler RD. (2004). The effects of aging on discrete and continuous motor coordination. *Poster presented at the 34<sup>th</sup> annual meeting of the Society for Neuroscience.*
56. Walsh CM, Bangert AS, **Goble DJ**, Boonin AE, Noll DC, Reuter-Lorenz PA, Seidler RD. (2004). Neural correlates of age-related changes in unimanual and bimanual coordination. *Poster presented at the 34<sup>th</sup> annual meeting of the Society for Neuroscience.*
57. Bangert AS, Walsh CM, Boonin AE, Anderson E, **Goble DJ**, Reuter-Lorenz PA, Seidler RD. (2004). The effects of aging on bimanual motor coordination. *Poster presented at the annual Meeting of the Cognitive Neuroscience Society.*
58. Walsh CM, **Goble DJ**, Bangert AS, Boonin AE, Noll DC, Reuter-Lorenz PA, Seidler RD. (2004). Motor control and ageing: neural indicators of compensation and decline. *Poster presented at the annual meeting of the Cognitive Neuroscience Society.*
59. **Goble DJ**, Conti GE, Samczyk NL, Hurvitz EA, Nelson VS, Brown SH. (2003). Bilateral upper limb coordination in children with brachial plexus injury. *Poster presented at the 33<sup>rd</sup> annual meeting of the Society for Neuroscience.*

#### Some Awards and Honours

2010	Canadian Institutes of Health Research – Institute of Aging Age+ Award	1000 CAD
2008	Outstanding Dissertation Award (Nominated)	
2007	Stan Kemp Award	1000 USD
2006	Outstanding Graduate Student Instructor Award	1000 USD
2006	Student's Choice Award for Teaching Excellence	
2005	Lucille Swift Award	1000 USD
2005	Paul A. Hunsicker Memorial Award	500 USD
2001	University of Windsor Post-Graduate Tuition Award	Free tuition

#### University Service and Affiliations

2015-present	Member of CHHS Research Committee, San Diego State Univ
2014-present	Affiliate Member Center for Clinical and Cognitive Neuroscience, San Diego State Univ
2013-2015	Chair of CHHS Curriculum Committee, San Diego State Univ
2013-present	Chair of ENS Scholarship Committee, San Diego State Univ
2013-present	DPT Doctoral Faculty Member, San Diego State Univ
2012-2015	DPT Faculty Search Committee Member, San Diego State Univ
2012-present	Fellow and Advisory Committee Member, Center on Aging, San Diego State Univ
2012-2014	Student Research Symposium Judge, San Diego State Univ
2005-2007	Office of Student Conflict Resolution Panelist, Univ Michigan
2005-2007	Graduate Student Member of Rackham Student Appeals Committee, Univ Michigan
2006	Candidate for Vice President of Rackham Student Government, Univ Michigan
2005-2006	Freshman Student Orientation – Oral Presenter, Univ Michigan
2003-2006	Graduate Student Forum Representative, Univ Michigan
2002-2006	Graduate Student Representative for Curriculum Advisory Group (CAG), Univ Michigan
2001-2002	Human Kinetics Representative on the Graduate Student Society (GSS), Univ Windsor
2001-2002	Kinesiology Representative on Graduate Studies Research Committee, Univ Windsor
2001-2002	Graduate Student Elections Committee, Univ Windsor
1999-2000	Human Kinetics Representative on University of Windsor Student Alliance, Univ Windsor

#### Grant, Fellowship and Conference Proposal Reviewer

2013 Post-doctoral fellowship awards, Research Foundation – Flanders, BE  
2011 Federal Grant Proposals, Romanian National Council for Scientific Research, RO  
2010-2011 Leoni Foundation Grant, University of Michigan School of Kinesiology, USA  
2009-2010 International Symposium on BMIC

#### Manuscript Reviewer

1. Journal of Neurophysiology	14. Journal of Motor Behavior
2. Experimental Brain Research	15. Quarterly Journal of Experimental Psychology
3. Neuropsychologia	16. Behavioral and Brain Functions
4. Behavioral Brain Research	17. European Journal of Applied Physiology
5. Acta Psychologica	18. Journal of Experimental Psychology (HPP)
6. PLOS One	19. Human Movement Science
7. Cognitive Processing	20. Current Medicinal Chemistry
8. Journal of Applied Biomechanics	21. Psychological Research
9. Journal of NeuroEngineering and Rehab	22. Age
10. Neuroimage	23. Journal of Physiology
11. Journal of Advanced Research	24. Journal of Gerontology – Psych Sciences
12. Frontiers in Neuroscience	25. Medicine and Science in Sports and Exercise
13. Exercise and Sport Science Reviews	26. Perceptual and Motor Skills

#### Professional Memberships

2011-present Clinical and Translational Research Institute (CTRI), UCSD  
2003-present Society for Neuroscience (SfN)  
2005-present Society for the Neural Control of Movement (NCM)  
2004-2011 International Society of Motor Control (ISMC)  
2006 American Academy of Physical Medicine and Rehabilitation (AAPMR)  
2001-2005 International Society of Biomechanics (ISB)

#### Workshops Attended and Certificates Obtained

2012 Classroom Engagement Strategies – San Diego State Univ  
2012 Grant Proposals: Tricks of the Trade – San Diego State Univ  
2011 i>clicker Training Course - Univ of Mich  
2010 Preparing Future Faculty – Univ of Mich  
2010 Online Survey Implementation (SurveyMonkey) - Univ of Mich Med School  
2010 Guide to improved presentations - Univ of Mich Med School  
2009 Statistical Parametric Mapping (SPM) Course – Univ of Zurich  
2008 fMRI training course – Katholieke Univ Leuven  
2007 Transcranial Magnetic Stimulation (TMS) Certification Course - Univ of South Cal  
2007 Introduction to MatLab for the Life Sciences - Mathworks  
1998-2007 Certification in CPR - Red Cross  
2006 Advanced Technologies for Neuro-motor Assessment and Rehab Summer School  
2005 Web-design with Dreamweaver MX - Univ of Mich faculty exploratory  
2004 Stats Workshop - Univ of Mich Center for Statistical Consultation and Research (CSCAR)  
2004 Motor Control Summer School – Penn State Univ  
2003 LabView Basics I – National Instruments  
2003 fMRI techniques workshop - Univ of Michigan fMRI Center  
2001 National Coaching Certification Program (NCCP) Level 1 & 2 Theory

#### Supervisory Experience

##### *PhD Thesis Committee Member*

Kristen Schleich (2016-present); Kinesiology, UNC Greensboro, USA  
Sutton Richmond (2016-present); Health and Exercise Science, Colorado State Univ, USA

### *Dissertation/Thesis Advisor*

Sarah Kirtland (2013); ENS, San Diego State Univ, USA  
Sean Willard (2014); ENS, San Diego State Univ, USA

### *Dissertation/Thesis Committee Member*

Anna Macari (2017-present); Clinical Psychology, SDSU, USA  
Emily Bower (2016-present); Clinical Psychology, UCSD, USA  
Juyeoun Moon (2016-present); Bio-engineering, San Diego State Univ, USA  
Lauren Gross (2016-present); Dept of Psychol, San Diego State Univ, USA  
Ehran Khan (2015-present); Bio-engineering, San Diego State Univ, USA  
Ben Mashian (2015); Bio-engineering, San Diego State Univ, USA  
Nicole DeFord, (2015), Dept of Psychol, San Diego State Univ, USA  
Catherine Sumida (2015), Dept of Psychol, San Diego State Univ, USA  
Shankar Meenkeri, (2015); Dept of Engineering, San Diego State Univ, USA  
Tyler Shaw, (2014); Dept of Engineering, San Diego State Univ, USA  
Merage Ghane (2013); Dept of Psychol, San Diego State Univ, USA  
Krupa Pranesh (2012); Dept of Engineering, San Diego State Univ, USA  
Amanda Khan, (2012); Dept of Psychol, San Diego State Univ, USA

### *Master's Research Assistants*

Julie Hannon (2016); ENS, San Diego State Univ, USA  
Jessica Pena (2016); ENS, San Diego State Univ, USA  
Mason Hearn (2015-2016); ENS, San Diego State Univ, USA  
Scott Benedict (2015-present); ENS, San Diego State Univ, USA  
Jake Bernards (2015); ENS, San Diego State Univ, USA  
Trevor Viboch (2014-2016); ENS, San Diego State Univ, USA  
Jenna Rubin (2014-2015); ENS, San Diego State Univ, USA  
Paul West (2014); ENS, San Diego State Univ, USA  
Tom Dodsworth (2013-2015); ENS, San Diego State Univ, USA  
Melissa Diek (2013-2014); ENS, San Diego State Univ, USA  
Jeffrey Hinshaw (2013-2014); ENS, San Diego State Univ, USA  
Brian Cone (2012-2014); ENS, San Diego State Univ, USA, USA  
Jacob Schwartz (2012-2013); ENS, San Diego State Univ, USA  
Tomas Gonzalez (2012-2013); ENS, San Diego State Univ, USA  
Jasper Chang (2012-2013); ENS, San Diego State Univ, USA  
Larry Kennard (2012-2013); ENS, San Diego State Univ, USA

### *Undergraduate Research Assistants*

Jessica Atencio (2016-present), Aubrey Jones (2016-present), Hannah Price (2016-present), Chistina Frenchik (2015-present), Selena Mae (2015-present), Carly Graff (2015-present), Stephanie Schulman (2014-2015), Ryan Byron-Fields (2013-2015), Dayne Carmichael (2012-2014), Julia Lyons, (2013), Lars Guillermo (2012-2013), Anna Samson (2012-2013), Seth Seay (2012), Micah Aaron (2010-2012), Josh Cohan (2010-2011), Rachel Wilson (2010-2011), Brittany Noble (2007-2010), Pooja Bhadbhade (2005-2007), Kristen Barbieri (2006-2007), Stephanie Levy (2006), Adlai Cleveland (2006), Taylor Scharf (2006), Abbey Downing (2006), Nathan Taylor (2005), Juby Chacko (2006-2007) Jon Priebe (2005), Jason Chesney (2004), Kota Takahashi (2004).

### Invited Lectures

1. Engineering Research Center monthly symposium, San Diego State University (2013). Title: "State of the art measures of proprioception".
2. Balance Journal Club, Oregon Health and Science University (2012). Title: "Proprioception-based neural activity and balance control in healthy and disabled adults".
3. Orthopaedic Surgery Research Conference, University of California at San Diego (2012). Title: "The aging proprioceptive system: From brain to behavior".

4. School of Exercise and Nutrition Science, San Diego State University. (2010). Title: "Proprioception and rehabilitation science".
5. Sensorimotor Control Lab, University of York. (2010). Title "Measurement of proprioceptive ability across the lifespan".
6. Center for Clinical Movement Science, University of Minnesota. (2010). Title: "Assessment of proprioceptive ability in healthy and disabled individuals".
7. Department of Human Physiology, University of Oregon. (2010). Title: "Bio-behavioral and neural factors influencing proprioceptive ability".
8. Department of Biomedical Kinesiology Seminar Series, Katholieke Universiteit Leuven. (2009). Title: "Neural correlates of bimanual coordination in the elderly".
9. Department of Biomedical Kinesiology Seminar Series, Katholieke Universiteit Leuven. (2008). Title: "Upper-limb asymmetries in the utilization of different types of movement-related feedback".
10. School of Kinesiology/Rackham School of Graduate Studies, University of Michigan. (2007). Title: "Upper-limb asymmetries in the utilization of proprioceptive feedback for goal directed movement".
11. Faculty of Human Kinetics, University of Windsor. (2002). Title: "Bilateral symmetry of human walking gait and manipulations of horizontal velocity".

#### In the Media

1. "Left and right hands rely on different senses". Article written by Karl L Baites on dissertation research and published in *The University Record*, Oct 23, 2007.

[http://ur.umich.edu/0607/Oct23\\_06/06.shtml](http://ur.umich.edu/0607/Oct23_06/06.shtml)

2. Chapter based on findings from studies underlying the sensory modality specific hypothesis of handedness in the book "Brain Sense" by Faith Brynie:

<http://www.amacombooks.org/book.cfm?isbn=9780814413241>

3. San Diego State university media release regarding work on Balance and proprioceptive brain imaging written by Gina Jacobs:

[http://newscenter.sdsu.edu/sdsu\\_newscenter/news.aspx?s=73380](http://newscenter.sdsu.edu/sdsu_newscenter/news.aspx?s=73380)

4. Newspaper article by Windsor reporter Beatrice Fantoni:

<http://blogs.windsorstar.com/2012/08/16/wii-a-key-to-improving-proprioception-and-preventing-falls-in-seniors/>

5. Metro news web interview by reporter Phoebe Ho:

<http://metronews.ca/news/windsor/339200/videogames-may-help-seniors-improve-balance-says-researcher/>

6. Work developing concussion assessment device mentioned in San Diego UT:

<http://www.utsandiego.com/news/2013/mar/04/sdsu-zahn-incubator-entrepreneur-anniversary/>

7. CW 6 morning show coverage of B-TrackS for sports-related concussion:

<http://www.sandiego6.com/story/sdsu-s-concussion-research-breakthrough-20130829>

8. CW 6 piece on the B-TrackS for sport at SDSU:

<http://www.sandiego6.com/story/sdsu-working-on-device-to-detect-concussions-early-20130829>

9. SDSU news team feature on my concussion work:

[http://newscenter.sdsu.edu/sdsu\\_newscenter/news.aspx?s=74363](http://newscenter.sdsu.edu/sdsu_newscenter/news.aspx?s=74363)

10. Fox News online feature on B-TrackS concussion work:

<http://www.foxnews.com/health/2013/08/28/new-device-may-help-detect-athletes-concussions-on-sidelines/>

11. KPBS story on the B-TrackS:

<http://www.kpbs.org/news/2013/sep/19/san-diego-state-prof-develops-device-diagnose-conc/>

12. SDSU news team feature on BTrackS:

[http://universe.sdsu.edu/sdsu\\_newscenter/news.aspx?s=75024](http://universe.sdsu.edu/sdsu_newscenter/news.aspx?s=75024)

13. Fox News follow-up on B-TrackS:

<http://www.foxnews.com/health/2014/06/18/new-tool-awaiting-fda-approval-may-improve-sideline-concussion-diagnosis/>

14. SDSU news team feature on Balance Tracking Systems:

[http://universe.sdsu.edu/sdsu\\_newscenter/news.aspx?s=75108](http://universe.sdsu.edu/sdsu_newscenter/news.aspx?s=75108)

15. CW 6 follow up on BTrackS:

<http://www.sandiego6.com/news/local/New-device-helps-athletes-recovering-from-concussions-271347201.html>

16. Story in the Daily Aztec

<http://www.thedailyaztec.com/74456/news/sdsu-researchers-battle-concussions-with-new-balance-board-technology/>