**CURRICULUM VITAE**

FEBRUARY 2023

**Harsimran Singh Baweja PT PhD**

School of Kinesiology

College of Education

Auburn University

301 Wire Road

Auburn, AL 36849

Hsb0025@auburn.edu

**EDUCATION**

|  |  |
| --- | --- |
| **Postdoctoral Fellowship**  **Fall 2013** | **Pennsylvania State University** |
|  | Motor Neuroscience  (Motor lateralization and robotics) |
|  |  |
| **Doctor of Philosophy**  **Summer 2012** | **University of Florida** |
|  | Biobehavioral Sciences  (Aging Neurophysiology and Motor Neuroscience) |
|  |  |
| **Bachelor of Physical Therapy**  **Spring 2005** | **Sardar Patel University (India)** |
|  | Physical Therapy |

**Title of Dissertation** -

**Doctor of Philosophy** - Amount of visual feedback and movement control and learning in older adults.

**Bachelor of Physical Therapy -** Diagnosing neck pain: Causes, Prevention and Physiotherapy.

**TEACHING POSITIONS**

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| **Spring 2023 – date**  **Auburn University**  **Fall 2018 – Fall 2022**  **San Diego State University**  **Fall 2014 – Spring 2018** | **Associate Professor (with Tenure)**  **Associate Professor (with Tenure)**  DPT 760 Neurosciences  4 Units (Spring)  DPT 830 Cardiopulmonary Therapy  4 Units (Fall)  DPT 857 Prosthetics and Orthotics  2 Units (Summer I)  DPT 897 Doctoral Research  1 Unit (Fall and Spring)  DPT 889 Doctoral Project  2 Units (Fall and Spring)  ENS 798 Grad Special Study 3 Units  (Fall and Spring)  ENS 499 Independent Study 1-3 Units (Spring/ Fall)  **Assistant Professor** |
| **San Diego State University** | DPT 760 Neurosciences  4 Units (Spring) |
|  | DPT 830 Cardiopulmonary Therapy  4 Units (Fall)  DPT 897 Doctoral Research  1 Unit (Fall and Spring)  DPT 889 Doctoral Project  2 Units (Fall and Spring)  ENS 798 Grad Special Study 3 Units  (Fall and Spring)  ENS 499 Independent Study 1-3 Units (Spring & Fall) |
| **Fall 2009-Fall 2010** | **Instructor** |
| **Texas A & M University** | KINE 606: Motor Neuroscience I (3 Units) |
|  |  |
| **Spring 2007- Fall 2007** | **Teaching Assistant** |
| **West Chester University of Pennsylvania** | Exercise Physiology & Biomechanics Labs for Undergrad and Graduate courses |
|  | Strength Training (3 Units) |
| **Summer 2005-Fall 2006** | **Instructor** |
| **Institute of Physical Medicine and Rehabilitation, Hyderabad, India** | BPT IInd Year - Biomechanics |
|  | BPT IIIrd Year – Clinical Orthopedic Assessment |
|  | BPT IVth Year – Orthopedic Rehabilitation and Sport Injuries |
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**RESEARCH POSITIONS**

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| **Spring 2023 – date**  Auburn University  Auburn, AL  **Fall 2018 – Fall 2022**  San Diego State University  San Diego, CA  **Fall 2014 – Spring 2018** | **Associate Professor (with Tenure)**  Clinical and Translational Neuroscience  **Associate Professor (with Tenure)**  Neuromechanics and Neuroplasticity in Movement Disorders & Substance Abuse  **Assistant Professor** |
| San Diego State University  San Diego, CA | Neuromechanics and Neuroplasticity in Movement Disorders |
|  |  |
| **Fall 2012-Fall 2013** | **Postdoctoral Research Fellow** |
| Pennsylvania State University, College of Medicine, Hershey PA | Motor Lateralization, Stroke Rehabilitation and Robotics |
| **Fall 2012-Fall 2013** | **Postdoctoral Research Fellow** |
| Pennsylvania State University, College of Health and Human Development, State College, PA | Motor Lateralization, Stroke Rehabilitation and Robotics |
| **Summer 2010-Summer 2012** | **Research Assistant** |
| University of Florida, Gainesville, FL | Aging Neurophysiology and Motor Neuroscience |
|  |  |
| **Spring 2008-Summer 2010** | **Research Assistant** |
| Texas A & M University, College Station, TX | Aging Neurophysiology and Motor Neuroscience |
| **Spring 2007-Fall 2007** | **Research Assistant** |
| West Chester University of Pennsylvania, West Chester, PA | Motor Control and Human Performance |

**CLINICAL POSITIONS**

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| **Summer 05 – Fall 06** | **Lead Physical Therapist** |
| Hyderabad Cricket Team, *Hyderabad, India* |
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| **Summer 05 – Fall 06** | **Chief Resident Physical Therapist** |
| Osmania General Hospital, *Hyderabad, India* | ICU, Burns & Plastic Surgery, Orthopedics Surgery |
|  |  |
| **Summer 2004-Fall 2006** | **Lead Physical Therapist** |
| Jaya Rehabilitation Center and Research Institute, *Kutch, India* | Prosthetics and Orthotics |
|  |  |
| **Physical Therapist Licensure**  Alabama Board of Physical Therapy  Florida Department of Health | **#PTH11088 (Active)**  **#PT29030 (Active)** |

**PROFESSIONAL GROWTH –**

**Refereed Journal Articles – (\*\* Graduate Student, \* Undergraduate Student)**

**My NCBI Bibliography -** <https://www.ncbi.nlm.nih.gov/myncbi/1N1ManlE9nm5p/bibliography/public/>

1. Chavez SJ\*\*, Vera S\*, Reed MB, Smith LR, Zuniga ML, Pipitan EV, Trim RS, **Baweja HS** **(2023)** Let’s talk about the “other” adversities experienced by second-generation Latinx populations. *Cultural Diversity and Ethnic Minority Psychology*. **(Q1 – Impact factor 4.539, 1 of 18 in Ethic Studies)** (In review – Senior Author)
2. Mahar MT, **Baweja HS,** Barkhoff H, Duley H, Atencio M, Wright M, McClain Z, Makuakane-Lundin G, Russell J **(2021)** Inclusive Excellence in Kinesiology Units in Higher Education. Kinesiology Review. (**Q3 – Impact Factor 0.98 Physical Therapy, Sports Therapy and Rehabilitation)** *Equal contribution co-authors*
3. Bordessa J\*\*, Hearne MC\*\*, Reinfeldt AE\*\*, Smith T\*\*, Levy S, **Baweja HS,** Rosenthal MD **(2021)** Comparison of Blood Flow Restriction Devices and Their Effect on Quadriceps Muscle Activation. Physical Therapy in Sport. 2021 May; 49:90-97. doi: 10.1016/j.ptsp.2021.02.005. <https://pubmed.ncbi.nlm.nih.gov/33647529/> (**Q1 – Impact Factor 2.365 Physical Therapy, Sports Therapy and Rehabilitation)** Co-author
4. Goble DJ, Marks CRC, Brown EC, **Baweja HS (2020).** Expanded normative data for the Balance Tracking System modified Clinical Test of Sensory Integration and Balance protocol. Medical Devices and Sensors. 3 (3), e10084 <https://onlinelibrary.wiley.com/doi/pdf/10.1002/mds3.10084> (**Impact data not available as it’s a new journal from Wiley Publications as of 2018)** Senior Author.
5. Goble DJ, Brar H, Brown EC, Marks CRC, **Baweja HS (2019).** Normative data for the Balance Tracking System modified Clinical Test of Sensory Integration and Balance protocol**.** Medical Devices: Evidence and Research 12, 183-191 8. doi: 10.2147/MDER.S206530. eCollection 2019 <https://pubmed.ncbi.nlm.nih.gov/31191047/> **(Q3 – Impact factor 1.59 Medicine/Biomedical Engineering)** Senior Author
6. Goble DJ, Rauh MJ**, Baweja HS** **(2019).** Normative Data for the BTrackS Balance Test Concussion-Management Tool: Results From 10 045 Athletes Aged 8 to 21 Years. J Athl Train. 2019 Apr;54(4):439-444. doi: 10.4085/1062-6050-178-18 <https://pubmed.ncbi.nlm.nih.gov/30870601/> **Q1 – Impact Factor 2.478 Physical Therapy, Sports Therapy and Rehabilitation)** Senior Author
7. Kovacs AJ, Miles GF\*\*, **Baweja HS** **(2018)** Thinking outside the block: External focus of attention improves reaction times and movement preparation times in collegiate track sprinters. Sports (Basel). 2018 Oct 19;6(4). pii: E120- Special Issue “Advances in Neuromuscular Research”. <https://pubmed.ncbi.nlm.nih.gov/30347670/> (**Q3 – Sports Medicine. Impact factor unavailable)** Senior Author
8. Goble DJ, **Baweja HS**. **(2018)** Postural Sway Normative Data across the Adult Lifespan: Results from 6,280 Individuals on the BTrackS™ Balance Test. Geriatric and Gerontology International 18(8):1225-1229 <https://pubmed.ncbi.nlm.nih.gov/29897159/> (**Q1 Gerontology – Impact Factor 2.73)** Senior Author
9. Goble DJ, **Baweja HS. (2018)** Normative Data for the BTrackS™ Balance Test of Postural Sway: Results from 16,357 Community-Dwelling Individuals Aged 5-100 Years. Physical Therapy. 98(9):779-785 <https://pubmed.ncbi.nlm.nih.gov/29788179/> **(Q1 – impact factor 2.526 Physical Therapy)** Senior author
10. O’Connor SM, Khan E\*, **Baweja HS**, Goble DJ. **(2018)** A Point of Application Study to Determine the Accuracy, Precision and Reliability of the BTrackS Balance Plate for Center of Pressure Measurement. Journal of Biomechanics: 71, 277-280. (**Q1 – impact factor 2.496, Biomedical Engineering, Biophysics, Orthopedics and Sports medicine, Rehabilitation and Sports Science)** Equal contribution senior author.
11. Hearn M\*\*, Levy SS, **Baweja HS**, Goble DJ**. (2018)** The BTrackS Balance Test for Concussion Management is Resistant to Practice Effects. Clinical Journal of Sports Medicine. 28(2):177-179 <https://www.ncbi.nlm.nih.gov/pubmed/28452829> **(Q1 – Sports Medicine – Impact Factor 3.16)** Equal contribution senior author
12. Goble DJ, Hearn MC\*\*, **Baweja HS. (2017)** Combination of BTrackS and Geri-Fit as a targeted approach for assessing and reducing the postural sway of older adults with high fall risk. Clinical Interventions in Aging **10;** 12:351-357.ECollections 2017 **(Q1 – impact factor 2.651 Geriatrics and Gerontology)** <https://www.ncbi.nlm.nih.gov/pubmed/28228655>. Senior Author
13. Benedict S\*\*, Fields R\*, Hinshaw J\*\*, **Baweja HS**, Goble DJ. **(2017)** Effects of Fatigue on the BTrackS Balance Test for Concussion Management. International Journal of Athletic Therapy and Training 22(4): 23-28. <https://doi.org/10.1123/ijatt.2016-0086> (**Q3, Physical Therapy, Sports Therapy and Rehabilitation)** Equal contribution senior author
14. Domingo AR, Diek M\*\*, Goble KM, Maluf KS, Goble DJ, **Baweja HS (2017).** Short Duration Therapeutic Massage Reduces Resting Upper Trapezius Muscle Activity. NeuroReport. 8;28 (2):108-110 <https://www.ncbi.nlm.nih.gov/pubmed/27977513> **(Q3 – impact factor 1.644, Neuroscience – misc.)** Senior author
15. O’Connor SJ, **Baweja HS,** Goble DJ**. (2016)** Validation of BTrackS force plates with an inverted pendulum. Journal of Biomechanics. 8; 49(16): 4142-4145 <https://www.ncbi.nlm.nih.gov/pubmed/27789036> **(Q1 – impact factor 2.496, Biomedical Engineering, Biophysics, Orthopedics and Sports medicine, Rehabilitation and Sports Science)** Equal contribution first author
16. Larkin-Kaiser KA, Borsa PA, **Baweja HS**, Moore MA\*, Tillman MD, George SZ, Christou EA. (**2016)** Photobiomodulation delays the onset of skeletal muscle fatigue in a dose-dependent manner. Lasers Med Sci. 2016 Sep; 31(7): 1325-32 <http://www.ncbi.nlm.nih.gov/pubmed/27305924> **(Q1 - impact factor 2.461, Surgery)**
17. 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. International Journal of Sports Physical Therapy. 11(2): 149-55 <http://www.ncbi.nlm.nih.gov/pubmed/27104048>
18. **Baweja HS**, Kwon MH, Onushko TL, Wright DL, Corcos DM, Christou EA **(2015).** Processing of visual information compromises the ability of older adults to control fine novel motor tasks during acquisition. *Experimental Brain Research* 233(12): 3475-88. <http://www.ncbi.nlm.nih.gov/pubmed/27104048> **(Q2 - impact factor 2.395, Neuroscience – misc)**
19. Onushko TL, **Baweja HS**, Christou EA **(2013).** Practice improves motor control in older adults by increasing the motor unit modulation from 13 to 30 Hz. *Journal of Neurophysiology* 110(10): 2393-401. <http://www.ncbi.nlm.nih.gov/pubmed/23986564> **(Q1 - Impact factor 2.887, Neuroscience – misc)**
20. Fox EJ, **Baweja HS**, Kim CK\*\*, Kennedy DM\*\*, Vaillancourt DE, & Christou EA **(2013).** Modulation of force below 1Hz: Age-associated differences and the effect of magnified visual feedback. *PLOS One* 8(2): e55970. <http://www.ncbi.nlm.nih.gov/pubmed/23409099> **(Q1 - impact factor 2.806, Medicine)**
21. **Baweja HS**, Kwon MH\*\*, Christou EA **(2012).** Magnified visual feedback exacerbates positional variability in older adults due to altered modulation of the primary agonist muscle. *Experimental Brain Research* 222(4): 355-64. <http://www.ncbi.nlm.nih.gov/pubmed/22948735> (**Q2 - impact factor 2.395, Neuroscience – misc)**
22. Kwon MH\*\*, **Baweja HS**, Christou EA **(2012).** Ankle variability is amplified in older adults due to lower EMG power from 30-60 Hz. *Human Movement Science* 31(6): 1366-78. <http://www.ncbi.nlm.nih.gov/pubmed/23089330> **(Q2 - impact factor 1.84, Orthopedics and Sports Medicine)**
23. Neto OP, Lindheim H\*, Marzullo AC, **Baweja HS**, Christou EA **(2012).** Practice induces neural adaptations differ for shortening and lengthening contractions. *European Journal of Applied Physiology* 112(11): 3709-20. <http://www.ncbi.nlm.nih.gov/pubmed/22350459> **(Q1 - impact factor 2.13, Orthopedics and Sports Medicine)**
24. **Baweja HS**, Neto OP, Patel BK\*\*, Christou EA (**2011**). The interaction of visual feedback and respiratory amplitude on force control and muscle activation. *Human Movement Science* 30(6): 1022-38. <http://www.ncbi.nlm.nih.gov/pubmed/21546109> **(Q2 - impact factor 1.84, Orthopedics and Sports Medicine)**
25. Kwon MH\*\*, **Baweja HS**, Christou EA **(2011).** Age-associated differences in positional variability are exacerbated with lower limb contractions. *Journal of Motor Behavior* 43(5): 357-60. <http://www.ncbi.nlm.nih.gov/pubmed/21809912> **(Q2 - impact factor 1.478, Orthopedics and Sports Medicine)**
26. Neto OP, **Baweja HS**, Christou EA (**2010**). Increased voluntary drive is associated with changes in the common oscillations from 13-60 Hz of interference but not rectified electromyography. *Muscle and Nerve* 42(3): 348-54. <http://www.ncbi.nlm.nih.gov/pubmed/20589885> **(Q2 - impact factor 2.605, Clinical Neurology)**
27. **Baweja HS,** Kennedy DM\*\*, Vu JL\*, Vaillancourt DE, Christou EA (**2010**). Greater amount of visual feedback decreases force variability by reducing force oscillations from 0-1 and 3-7 Hz. *European Journal of Applied Physiology* 108(5): 935-43. <http://www.ncbi.nlm.nih.gov/pubmed/19953262> **(Q1 - impact factor 2.13, Orthopedics and Sports Medicine)**
28. **Baweja HS,** Patel BK\*\*, Martinkewiz JD\*, Vu JL\*, Christou EA (**2009**). Removal of visual feedback alters muscle activity and reduces force variability during constant isometric contractions. *Experimental Brain Research* 197: 35-47. <http://www.ncbi.nlm.nih.gov/pubmed/19544059> **Q2 - impact factor 2.395, Neuroscience – misc)**

**Invited Editorials**

1. Goble DJ, Baweja N, **Baweja HS** **(2019)** *Editorial:* BTrackS: A Low Cost, Portable Force Plate for Objectively Measuring the Balance Deficits and Fall Risk of those Individuals Aging in Place. Home Healthcare Now. Nov/Dec 2019;37(6):355-356. doi: 10.1097/NHH.0000000000000823
2. **Baweja HS (2017)** *Editorial:* Towards objective quantification of traditionally subjective clinical assessments: The dichotomy between clinical science and healthcare delivery. Journal of Neurology and Neurorehabilitation Research, 2(2): 1-2.

**Letters to Editor**

1. **Baweja HS** & Goble DJ. **(2018)** *Letter to the Editor:* On the nature of clinical assessment with low sensitivity for concussion related balance deficits. Journal of Sports Rehabilitation. Jul 17:1-7. <https://www.ncbi.nlm.nih.gov/pubmed/28714770> **(Q2 - impact factor 1.413, Sports Medicine and Athletic Training)**

**Publications in preparation**

1. Rizeq H\*\*, Taylor BP\*\*, Goble DJ, Gilbert PE, **Baweja HS (2022).** Dual-tasking inhibits postural control in older adults. (invited for submission)
2. Chavez S**, Baweja HS**, Soria SM, Manyak KA, Goble DJ**. (2022)** Acute postural control deficits following concussions. Concussion (in preparation)
3. Rizeq HN\*\*, Plows AC\*, Nguyen IN\*, Ruelos KDF\*, Ramos J, Robles C, Goble DJ, **Baweja HS**. **(2022)** Let’s talk about secs: Are there gender differences in young distracted drivers?
4. Howard CK, Kovacs AJ, **Baweja HS. (2022).** Effects of attentional focus on whole body movements as a functional level of skill
5. **Baweja HS**, Gunning K, Percuoco A, Lytle A, Murcia JP, Rauh MJ. **(2022)** Low-frequency oscillations in postural sway scale with sensory weighting and disease progression.(in preparation)
6. **Baweja HS,** Fong C\*\*, Schiehser DM, Filoteo JV. **(2022)** Second-order procedural learning in not different in motor subtypes of Parkinson’s Disease (in preparation)
7. **Baweja HS,** Burke MM\*\*, Taylor BP\*\*, Litvan I, Gilbert PE, Filoteo JV,Goble DJ **(2022).** Effect of dual-tasking on balance and postural sway in Parkinson’s disease (in preparation)
8. **Baweja HS,** Rhoden E, McElroy C, Filoteo JV, Goble DJ, Litvan I**. (2022)** Postural control deficits in atypical Parkinson’s disease. (in preparation)
9. **Baweja HS**, Taylor BP\*\*, Gilbert PE, Filoteo JV, Goble DJ **(2022).** Low-frequency oscillations in postural sway vary with sensory weighting: Implications for fall-risk in Parkinson’s disease. (In preparation)

**Refereed Book Chapters**

**Baweja HS.** Neuro-electrochemistry of Movement in *Grieve's Modern Musculoskeletal Physiotherapy*, 4th Edition, Elsevier Publications*,* ISBN -13: 978-0702051524*,* ***2015***

**Books (published/in preparation)**

**Baweja HS** & Rauh MJ. The essential lab manual of Cardio-respiratory therapeutics for Physical Therapists. (in preparation)

**Baweja HS.** 25 days of sunlight in the quest for a vision – The Zen and Neuroscience of moto-therapeutic meditation. (in preparation)

**Patents**

**Baweja HS** & Goble DJ. Method, system and Device for Global Real-Time Non-Invasive Deep Brain Stimulation Optimization. **2016.**  USPTO Provisional Patent Pending

**Conference Podium and Poster Presentations (⌘ upcoming meetings)**

1. Diamond PE\*\*, Nauman M\*\*, Mendoza M\*\*, Snow C\*\*, Bledsoe T\*\*, Roche T\*\*, Zuniga ML, **Baweja HS**. Neural dysfunction associated with cannabis use in teenage drivers: What we know and what we don’t. Annual Meeting for the Society for Neuroscience, San Diego. November 12-16, 2022
2. **Baweja HS**, Rosenthal MD. Acute neural adaptations to regulated and unregulated low-load blood flow occlusion in quadriceps muscle. Annual Meeting for the Society for Neuroscience, San Diego. November 12-16, 2022
3. Rosenthal MD, Gibson A, Thompson M, Lepis B, Sange SA, Wek N, Kreysa TC, **Baweja HS.** (2022) Postural Stability following blood flow restriction training in healthy individuals. American College of Sports Medicine. San Diego, CA. May 31 – Jun 4, 2022
4. **Baweja HS**, Goble DJ, Gilbert PE, Corey-Bloom J. (2021) Low-frequency Oscillations in Postural Sway May Have Prognostic Value in Huntington’s Disease. Huntington’s Disease Study Group. November 2021 (Online)
5. Gunning K, Lytle AJ, Murcia JP, Percuoco AJ, Rauh MJ, **Baweja HS.** (2021) Low-frequency oscillations in postural sway scale with sensory weighting and disease progression in Huntington’s Disease. 7th Annual Doctoral Project Seminar. May 13th, 2021 (San Diego, CA, Online)
6. Al-Sheikh A, Gon A, Green DJ, Nguyen T, Patalano K, Sprandlin J, Rauh MJ, **Baweja HS.** (2020) Fitness-to-drive assessments in Huntington’s Disease: A systematic review. 6th Annual Doctoral Project Seminar. May 14th, 2020 (San Diego, CA, Online)
7. Bordessa J, Hearne M, Reinfeldt A, Smith T, **Baweja HS,** Rosenthal MJ. (2020). Comparison of Blood Flow Restriction Devices and Their Effect on Quadriceps Muscle Activation. 6th Annual Doctoral Project Seminar. May 14th, 2020 (San Diego, CA, Online)
8. Sarkar M, Paolini C, Soselia D, **Baweja HS**. (2019) Optimal Location for Fall Detection Edge Inferencing. IEEE Globecom 2019. Dec 9-14. Puako, HI, USA
9. Magaña, V. M., Marks, C., **Baweja, H. S.** & Zúñiga, M. L. (2019). *Cannabis Use and Adherence to Antiretrovirals Among HIV+ Latinos on the U.S.-Mexico Border*. Abstract #436180 – American Public Health Association (APHA). Philadelphia, PA.
10. Magaña, V. M., **Baweja, H. S.** & Zúñiga, M. L. (2019). *Deprivation of Liberty and Marijuana Use Negatively Impact Antiretroviral Adherence Among Latinos Living with HIV in the U.S.-Mexico Border Region*. National Hispanic Science Network (NHSN) 19th International Conference. New Orleans, LA.
11. Carper E, Dib N, Edwards C, Harrington A, Stewart A, Middleman A, Tuttle LJ, **Baweja HS.** (2019) A comprehensive paradigm to test neurocognitive and neuromotor effects of shift work: A pilot study. 5th Annual Doctoral Project Seminar. May 16th, 2019 (San Diego, CA)
12. Blancher B, Carey K, Connor C, Storm S, Kanakaris S, Hemphill M, Segelke C, **Baweja HS**, Domingo AR. (2019). Cardiovascular, metabolic and muscular responses to exoskeleton walking with functional electrical stimulation in people with spinal cord injury: A case series. 5th Annual Doctoral Project Seminar. May 16th, 2019 (San Diego, CA)
13. Baweja HS, Nahab FB, Goble DJ. Kinetic augmentation of deep brain stimulation programming optimization across multiple motor symptoms in essential tremor. 49th Annual Meeting for the Society for Neuroscience, Chicago. October 19-23, 2019
14. May MB\*, Corey-Bloom J, Gilbert PE, Goble D J, Baweja HS. Sensory weighting for postural control and fall-risk changes with progression of Huntington's disease. 49th Annual Meeting for the Society for Neuroscience, Chicago. October 19-23, 2019
15. Dillon KE\*, McElroy C, Litvan I, Filoteo JV, Goble DJ, Baweja HS. Postural control deficits with progressive supranuclear palsy differ from idiopathic Parkinson’s disease. 49th Annual Meeting for the Society for Neuroscience, Chicago. October 19-23, 2019
16. Chavez S, Soria SM, Manyak K, Kovacs AJ, Goble DJ, Baweja HS. Post-concussion recovery timeline of postural stability in a division 1 baseball athlete. 49th Annual Meeting for the Society for Neuroscience, Chicago. October 19-23, 2019
17. May M\*, Goble DJ, Gilbert PE, Corey-Bloom J, **Baweja HS.**Sensory Weighting of Postural Control: Implications for Fall Risk in Huntington’s disease. Annual Student Research Symposium, SDSU. March 2019
18. Dillon KE\*, Goble DJ, Litvan I, McElroy CJ, **Baweja HS..**Postural control deficits with Progressive Supranuclear Palsy. Annual Student Research Symposium, SDSU. March 2019
19. M. O. Conrad, N. A. Dib\*\*, C. Edwards\*\*, E. Carper\*\*, A. Harrington\*\*, A. Stewart\*\*, A. Middleman\*\*, J. Fellow\*\*, M T. Mahar, **H. S. Baweja**. A comprehensive paradigm to test neurocognitive and neuromotor effects of shift work. Society for Neuroscience, San Diego, November 2018
20. Kress A, Romero R, Rabanal M, Vasko B, Rauh MJ, **Baweja HS.** (2018).Normative data for the BtrackS Balance Test from 1,905 adults from the ages of 30- 65 years. 4th Annual Doctoral Project Seminar. May 10th, 2018 (San Diego, CA)
21. Ball S, Baxter G, Kennard L, Pham B, Rosario S, Sanscartier S, **Baweja HS**, Domingo AR. (2018) Oxygen uptake and muscle activation during walking in an Exoskeleton with variable assistance for individuals with incomplete spinal injury: A case series. 4th Annual Doctoral Project Seminar. May 10th, 2018 (San Diego, CA)
22. **Baweja HS**, Middleman A\*\*, Dib N\*\*, Harrington A\*\*, Stewart A\*\*, Fellow J\*\*, Edwards E\*\*, Carper E\*\*, Mahar MT, Conrad ME. An Objective Battery of Sensorimotor and Cognitive Tests to Assess Effects of work Shift Length on Healthcare Workers: A Proof-of-Principle Study. HFES Healthcare Symposium, Boston, MA 2018.
23. Hearn MC\*\*, **Baweja HS.** Acrophobic? Let’s walk the plank. 11th Annual Student Research Symposium, SDSU. San Diego, CA. March 2018**\*\*\*SDSU President’s Award for Best Presentation (Graduate) to Mason Hearn**
24. Rizeq HN\*\*, Goble DJ, **Baweja HS**. Low-frequency oscillations in postural sway scale with dual-tasking and fall risk in older adults. 11th Annual Student Research Symposium, SDSU. San Diego, CA. March 2018**\*\*\*CHHS Dean’s Award for Best Presentation (Graduate) to Hedaya Rizeq**
25. Parupudi V\*, Rizeq HN\*\*, Goble DJ, **Baweja HS**. An alternative to the timed up and go for stratifying fall risk. 11th Annual Student Research Symposium, SDSU. San Diego, CA. March 2018
26. Plows A\*, Rizeq HN\*\*, Nguyen IN\*, Goble DJ, **Baweja HS.** Effects of distracted driving in young adults. 47th Annual Meeting of the Society for Neuroscience, Neuroscience 2017, Washington DC
27. Hearn MC\*\*, Nahab FB, Filoteo JV, Litvan I, Goble DJ, **Baweja HS**. Low frequency oscillations in postural sway scale with fall risk and sensory weighting in Parkinson’s disease. 47th Annual Meeting of the Society for Neuroscience, Neuroscience 2017, Washington DC
28. Ajrawi SA\*\*, Mohanty S, Sarkar M, Rao R, Mihoyska A, **Baweja HS**. Investigating feasibility of multiple UHF passive RFID transmitters using backscatter modulation scheme in Brain Computer Interface applications. IEEE ComSoc - International Symposium on Performance Evaluation of Computer and Telecommunication Systems. June 2017
29. Kovacs AJ, Miles G\*\*, Ross K\*, **Baweja HS.** Thinking outside the block: External focus shortens reactions times in collegiate sprinters. NASPSPA, San Diego, CA. June 2017
30. **Baweja HS**, Hearn MC\*\*, Gilbert PE, Filoteo JV, Litvan I, Goble DJ. Low-frequency oscillations in postural sway scale with sensory weighting and fall risk in Parkinson’s disease. USC Brain Repair and Neuroplasticity Retreat, Lake Arrowhead, CA, USA. May 2017
31. Rizeq HN\*\*, Plows AC\*, Nguyen IN\*, Kristel DF Ruelos\*, Goble DJ, **Baweja HS**. Lets talk about secs: Are there gender differences in young distracted drivers? 31st Annual CSU Student Research Competition. California Polytechnic University, San Luis Obispo, CA. April 28-29, 2017
32. Rizeq HN\*\*, Nguyen IN\*, Goble DJ, **Baweja HS.** Lets talk about secs: Gender differences in distracted driving. 10th Annual Student Research Symposium, SDSU. San Diego, CA. March 2017 **\*\*\*SDSU President’s Award for Best Presentation (Graduate) to Hedaya Rizeq**
33. Hearn MC\*\*, Goble DJ, **Baweja HS.** Sensory weighting of posture: implications for fall-risk in Parkinson’s disease. 10th Annual Student Research Symposium, SDSU. San Diego, CA. March 2017
34. **Baweja HS**, Romero M\*\*, Castagner E\*\*, Kress A\*\*, Vasko B\*\*, Rabanal MJ\*\*, Rauh MJ, Goble DJ.Lifespan Normative Data for the BTrackS™ Balance Test. Combined Sections Meeting of the American Physical Therapy Association. Feb 15 - 18, 2017. San Antonio, TX.
35. Soria SM\*, Rauh MJ, Goble DJ, **Baweja HS.** Postural control deficits in collegiate athletes following mild concussions within the first 48 hours, 5th International Consensus Conference on Concussion in Sport, October 27-28, 2016. Berlin, Germany. British Journal of Sports Medicine. 51 (11), A55. **(Q1 – impact factor 6.724, Physical Therapy, Sports Medicine and rehabilitation)**
36. Burke MM\*\*, Taylor BP\*\*, Erram JS\*, Filoteo JV, Gilbert PE, Goble DJ, **Baweja HS.***Postural control with concurrent cognitive tasks in Parkinson's disease patients.* 46th Annual Meeting of the Society for Neuroscience, Neuroscience 2016, 12-16 Nov, San Diego, CA.
37. Erram JS\*, Taylor BP\*\*, Gilbert PE, Goble DJ, **Baweja HS.**Dual tasking diverts attention from postural control in older adults. 46th Annual Meeting of the Society for Neuroscience, Neuroscience 2016, 12-16 Nov, San Diego, CA.
38. Soria SM\*, Rauh MJ, Goble DJ, **Baweja HS**. *Acute postural control deficits in Division I college athletes following mild concussions.*46th Annual Meeting of the Society for Neuroscience, Neuroscience 2016, 12-16 Nov, San Diego, CA.
39. Frenchik CA\*, Soria SM\*, Rauh MJ, Goble DJ, **Baweja HS**. *Normative data for the BTrackS Sports Balance Test in school and college athletes.* 46th Annual Meeting of the Society for Neuroscience, Neuroscience 2016, 12-16 Nov, San Diego, CA.
40. Graff CD\*, **Baweja HS,** Goble DJ. Implementation of BTrackS for assessment of balance in individuals with stroke. 46th Annual Meeting of the Society for Neuroscience, Neuroscience 2016, 12-16 Nov, San Diego, CA.
41. Kovacs AJ, Camic CL, Bradley LE\*, Griffith P\*, Durham EA, \* Miller TL\***, Baweja HS**. *Differential activation of the leg muscles during cycling interacts with transition to running in triathletes.* 46th Annual Meeting of the Society for Neuroscience, Neuroscience 2016, 12-16 Nov, San Diego, CA.
42. Cerna A\*\*, Crooks K\*\*, Gere R\*\*, Kniefel N\*\*, Santos C\*\*, Goble DJ, **Baweja HS.** *Balance Tracking Systems (BTrackS): A reliability study of center of pressure metrics for single leg balance*. 2nd Annual DPT Poster session, May 11th, 2016. SDSU. San Diego CA.
43. Taylor BP\*\*, Gilbert PE, Goble DJ, **Baweja HS**. Dual tasking diverts attention from postural control in older adults.30th Annual California State University Student Research Competition. Bakersfield CA. April 29-30, 2016
44. Soria SM\*, Goble DJ, **Baweja HS.** Postural control deficits in Division I athletes: the first 48 hours following mild concussions. 9th Annual Student Research Symposium, SDSU. San Diego, CA. March 2016
45. Frenchik C\*, Goble DJ, **Baweja HS**. Maturation of postural sway is influenced by gender. 9th Annual Student Research Symposium, SDSU. San Diego, CA. March 2016
46. Taylor BP\*\*, Gilbert PE, Goble DJ, **Baweja HS.** Dual tasking inhibits postural control in older adults. 9th Annual Student Research Symposium, SDSU. San Diego, CA. March 2016 **\*\*\*SDSU President’s Award for Best Presentation (Graduate) to Brad Taylor**
47. Erram JS\*, Burke MM\*\*, Taylor BP\*\*, Filoteo JV, Gilbert PE, Goble DJ, **Baweja HS.** Postural control with concurrent cognitive tasks in postural instability gait disorder vs. tremor dominant Parkinson's disease patients. 9th Annual Student Research Symposium, SDSU. San Diego, CA. March 2016 **\*\*\*SDSU Provost’s Award for Best Poster Presentation (Undergraduate) to Jyotika Erram**
48. Graff CD\*, **Baweja HS,** Goble DJ. Implementation of BTrackS for assessment of balance in individuals with stroke. 9th Annual Student Research Symposium, SDSU. San Diego, CA. March 2016 \*\*\***Compact Scholar Award for** **Best Undergraduate Oral Presentation to Carly Graff**
49. Kovacs AJ, Bradley L\*\*, Camic C, **Baweja HS.** Increased voluntary activation of the leg muscles during cycling interacts with transition to running in triathletes. NASPSPA, Montreal Quebec, Canada. June 2016
50. LT Monagle\*\*, PM Whiting\*\*, RA Bhatia\*\*, DJ Ehrlichman\*\*, **HS Baweja**, Rauh MJ. [Injuries In Interscholastic Cross-country: Predicting Injuries Using Selected Lower Extremity Functional And Static Anatomic Measures](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=-Rg6ALAAAAAJ&cstart=20&citation_for_view=-Rg6ALAAAAAJ:YohjEiUPhakC). Journal of Orthopaedic & Sports Physical 46 (1), A191-A192
51. Frenchik C\*, Soria SM\*, Picardi D\*, Goble DJ, **Baweja HS**. Maturation of postural sway is not influenced by body mass index or gender. Society for Neuroscience, Chicago, IL. October 2015
52. Barbod C\*, Anderson D\*, Lane E\*, Seamen K\*, Wagner T\*, **Baweja HS.** Upper-limb Rehabilitation Virtual Reality Module Table. SDSU Senior Design Day, May 2015
53. Barnes M\*\*, Burt D\*\*, Ortiz J\*\*, Scholl M\*\*, **Baweja HS**, Goble DJ. Estimating Huntington’s disease onset using a low-cost balance assessment. Annual DPT Project Poster Session. SDSU. May 2015
54. Hollenbeck B\*\*, Golding M\*\*, Lazaga A\*\*, Tran Q\*\*, **Baweja HS**, Goble DJ. Normative data for the Balance Tracking System (BTrackS): Future implications for brain injury evaluations. Annual DPT Project Poster Session. SDSU. May 2015
55. Whiting PM\*\*, Thompson LA\*\*, Bhatia RA\*\*, Ehrlichman DJ\*\*, **Baweja HS**, Rauh MJ. Injuries in interscholastic Cross-Country: Predicting injuries using selected lower extremity functional and static anatomic measures. Annual DPT Project Poster Session. SDSU. May 2015
56. **Baweja HS** & Sainburg RL. Asymmetry in interlimb transfer reveals hemispheric specialization for trajectory skill task. Society for Neuroscience, San Diego, CA. November 2013.
57. Christou EA, **Baweja HS**, Fox EJ, Onushko T, Kwon MH, Chen YT, Kim C, Larkin K. Aging, visual feedback and the control of fine motor tasks. Science of Human Movement and Sports Psychology. Seoul national University, Seoul, Korea, 2012.
58. Christou EA, Fox EJ, Onushko T, **Baweja HS**, Kwon MH, Chen YT, Kim C, Larkin K. Training Strategies to Enhance Motor Learning in Older Adults. KAHPERD International Sport Science Congress, Mokpo, Korea, 2012.
59. Christou EA, Fox EJ, Onushko T, **Baweja HS**, Kim C, Kwon M, Chen Y, Larkin KA. Training Protocols That Minimize Motor Output Variability Enhance Motor Learning in Older Adults. APTA Combined Sections Meeting, San Diego, CA. January 2013.
60. Larkin KA, **Baweja HS**, Borsa, PA & Christou EA. Phototherapy prolongs time to task failure in older adults. Society for Neuroscience, New Orleans, LA. November 2012.
61. Christou EA, Onushko TL, **Baweja HS** & Fox EJ. Practice-induced improvements in movement control are associated with changes in multi-motor unit activity. New Orleans, LA. November 2012.
62. **Baweja HS**, Larkin KA & Christou EA. Training older adults with low-gain visual feedback facilitates motor learning. New Orleans, LA. November 2012.
63. Larkin KA, Christou EA, **Baweja HS**, Tillman MD, George SZ & Borsa PA. Phototherapy Delays the Onset of Skeletal Muscle Fatigue in a Dose-Response. UF Stanley Lecture Symposium, Gainesville, FL. May 2012.
64. Larkin KA, Borsa PA, **Baweja HS**, Tillman MD, George SZ & Christou EA. Phototherapy Delays the Onset of Skeletal Muscle Fatigue in a Dose-Response. 7th Annual Neuromuscular Plasticity Symposium, Gainesville, FL. March 2012.
65. Fox EJ, **Baweja HS**, Kim C, Vaillancourt DE, & Christou EA. Modulation of force within 0-1Hz: Age-associated differences and the effect of magnified visual feedback. 7th Annual Neuromuscular Plasticity Symposium, Gainesville, FL. March 2012.
66. **Baweja HS**, Larkin KA, Tanner EP, Moore MA, & Christou EA. Two-weeks of low-intensity training lowers ankle movement variability and error in older adults to the level of young adults. UF Stanley Lecture Symposium, Gainesville, FL. May 2012. \*\*\***Award for Best Presentation (Graduate)**
67. Larkin KA, Christou EA, **Baweja HS**, Moore MA, Tillman MD, George SZ & Borsa PA. Near-Infrared Light Therapy Delays the Onset of Skeletal Muscle Fatigue. American Society of Biomechanics, Gainesville, FL. August 2012
68. Fox EJ, **Baweja HS**, Kim C, Vaillancourt DE, & Christou EA. The effects of visual feedback and aging on force oscillations within 0-1 Hz. American Society of Biomechanics, Gainesville, FL. August 2012
69. **Baweja HS**, Larkin KA, Tanner EP, Moore MA, & Christou EA. Two-weeks of unloaded precision training improves motor performance in older adults to the level of young adults. American Society of Biomechanics, Gainesville, FL. August 2012
70. **Baweja HS**, Larkin KA, Tanner EP, Moore MA, & Christou EA. Two-weeks of low-intensity training lowers ankle movement variability and error in older adults to the level of young adults. 7th Annual Neuromuscular Plasticity Symposium, Gainesville, FL. March 2012.
71. Christou EA, **Baweja HS**, Chen YT, Fox EJ, Kim C, Kwon MH, Larkin KA, Onushko TL. Magnified visual feedback alters the neural activation of muscles and impairs motor control and learning in older adults. Vision Sciences Society, Naples, FL. August 2012.
72. Christou EA, **Baweja HS**, Kwon MH, Kennedy DM, Chen YT, & Kim C. Processing of visual information contributes significantly to the amplification of movement variability in older adults. 7th Annual International Conference on Kinesiology and Exercise Sciences, Athens, Greece, July 2011.
73. Christou EA, Kennedy DM, Chen Y, **Baweja HS**, & Vaillancourt DE. Age-associated differences in the time and amplitude of the force drift following removal of visual feedback. Society for Neuroscience, Washington DC. November 2011.
74. Kim C, **Baweja HS**, Neto OP, Kennedy DM, & Christou EA. Age-associated differences in the modulation of force from 0-1 Hz with different amounts of visual feedback. Society for Neuroscience, Washington DC. November 2011.
75. **Baweja HS**, Neto OP, Kennedy DM, Vaillancourt DE, & Christou EA. Greater amount of visual feedback increases force accuracy and control in young adults. Society for Neuroscience, Washington DC. November 2011.
76. Kwon MH, **Baweja HS**, & Christou EA. Age-associated differences in position variability are greater with ankle dorsiflexion than index finger abduction. 6th Annual Neuromuscular Plasticity Symposium, Gainesville, FL. March 2011.
77. **Baweja HS**, Kennedy DM, Kwon MH, Wright DL, Corcos DM, & Christou EA. Age-associated differences in movement control are influenced by processing of visual information. 6th Annual Neuromuscular Plasticity Symposium, Gainesville, FL. March 2011.
78. Kwon MH, **Baweja HS**, & Christou EA. Age-associated differences in position variability with the index finger and foot. American College of Sports Medicine, Denver, CO. June 2011.
79. Christou EA, **Baweja HS**, Kennedy DM, & Wright DL. Aging and learning of sinusoidal tasks. Society for Neuroscience, San Diego, CA. November 2010.
80. Kwon MH, **Baweja HS**, Glover SQ, & Christou EA. Motor output variability and error during positional tasks with the index finger and foot. Society for Neuroscience, San Diego, CA. November 2010.
81. **Baweja HS**, Kwon MH, Glover SQ, & Christou EA. Greater amount of visual feedback decreases error but not variability during movements and positional tasks with the finger and foot. Society for Neuroscience, San Diego, CA. November 2010.
82. Christou EA, **Baweja HS**, Kennedy DM, & Wright DL. Age-associated differences in learning novel fine motor tasks. Society for Neuroscience, Chicago, IL. October 2009.
83. Kennedy DM, **Baweja HS**, Vaillancourt DE, & Christou EA. Time onset and amplitude of force drift varies with force level during low-intensity constant isometric contractions. Society for Neuroscience, Chicago, IL. October 2009.
84. Neto OP, Marzullo ADM, **Baweja HS**, & Christou EA. Removal of visual feedback but not changes in breathing influence muscle activity during constant isometric contractions. Society for Neuroscience, Chicago, IL. October 2009.
85. **Baweja HS**, Kennedy DM, Vu JL, Vaillancourt DE, & Christou EA. Greater amount of visual feedback alters muscle activity and reduces force variability during constant isometric contractions. Society for Neuroscience, Chicago, IL. October 2009.
86. **Baweja HS**, Kennedy DM, Wright DL, & Christou EA. Age-associated differences in learning novel fine motor tasks. Texas Brain and Spine Institute, College Station, TX. 2009.
87. Christou EA, Rodriguez TM, & **Baweja HS**. Voluntary coactivation impairs motor output variability during goal-directed but not during constant isometric contractions. Mechanisms of Plasticity and Disease in Motoneurons, Seattle, WA. June 2008.
88. **Baweja HS**, Patel BK, Martinkewiz JD, Smith MA, Vu J, Srinivasan D, &Christou EA. Influence of visual feedback on motor output and muscle activity during constant isometric contractions. Mechanisms of Plasticity and Disease in Motoneurons, Seattle, WA. June 2008.
89. Fulks ER, **Baweja HS**, Patel BK, Martinkewiz JD, Srinivasan D, & Christou EA. Breathing amplitude influences force variability but not muscle activity during constant isometric contractions. Society for Neuroscience, Washington DC. November 2008.
90. **Baweja HS**, Patel BK, Martinkewiz JD, Smith MA, Srinivasan D, & Christou EA. Removal of visual feedback alters muscle activity and reduces force variability during constant isometric contractions. Society for Neuroscience, Washington DC. November 2008.

**Invited Presentations/Talks/Panels**

1. **Baweja HS - Panelist – “**Opportunities for, pathways to, and Challenges in Interdisciplinary Research”. SDSU Academic Support and Scholarships for Interdisciplinary Computational Scientists (ASSICS). Online. April 30, 2021, San Diego, CA
2. Mahar MT & **Baweja HS.** AKA Inclusive Excellence: San Diego State University. American Kinesiology Association Annual Leadership Workshop. Jan 25th **2021**
3. **Baweja HS.**The Future of Neuroscience. SDSU Campanile Foundation & Alumni Board of Directors Annual Meeting. April **2019**
4. **Baweja HS.**Objective Quantification of Traditionally Subjective Clinical Measures. SDSU Academic Deans Council. May **2019** San Diego
5. **Baweja HS**. Aging Independently. SDSU Zahn Innovation Launchpad. April **2019**, San Diego
6. **Baweja HS.** Mind your lane! Effects of cognitive distractors on driving. SDSU Clinical And Cognitive Science Seminar Series. San Diego, April **2018**.
7. **Baweja HS.** Let’s talk about secs: Implications of cognitive distraction on young drivers. USC Brain Repair and Neuroplasticity Retreat, May 27-29th, Lake Arrowhead, CA. **2017**
8. **Baweja HS**. Investigating the effects of cannabis use on driving in virtual environments. UCSD Center for Medicinal Cannabis Research. February 23rd. San Diego, CA. **2017**
9. **Baweja HS.** Mechanistic interventions targeting neuroplasticity: Exploring uncharted territories through virtual reality. USC Brain Repair and Neuroplasticity Retreat, May 27-29th, Lake Arrowhead, CA. **2016**
10. **Baweja HS.** Physical Health and Body Mechanics in Parkinson's disease. Parkinson's Association, November 25th, **2015**. Poway CA.
11. **Baweja HS.** Fitness in Parkinson’s disease. San Diego County Parkinson’s Association, San Diego, CA. **2015**
12. **Baweja HS.** Mechanistic Interventions. Institute for Neural Computation, University of California at San Diego, San Diego, CA. **2014**
13. **Baweja HS.** Scientific Rehab Solutions.Zahn Innovation Center, San Diego State University, San Diego, CA. **2014**
14. **Baweja HS.** Reflexes! *Kaiser University, Tampa, FL.* ***2013.***
15. **Baweja HS.** Visual information processing in aging and learning of novel motor tasks*. USF Health College of Medicine – School of Physical Therapy and Rehabilitation Sciences, Tampa, FL.* ***2013****.*
16. **Baweja HS** & Sainburg RL**.** Nature of learning a trajectory skill task. Action Club. Department of Kinesiology, Pennsylvania State University, State College, PA. **2013.**
17. **Baweja HS** & Christou EA. Breathing amplitude influences force variability during constant isometric contractions. Texas A&M University, College Station, TX. **2009**

**Scholarly Awards and Honors**

1. *SDSU Grants and Research Enterprise Writing (GREW) Fellowship.* **(2017)**
2. *Stanley Lecture Graduate Poster Winner* **(2012)**
3. *Outstanding International Student Academic Achievement* **(2012)**
4. *Outstanding International Student Academic Achievement* **(2011)**
5. *Outstanding Academic Achievement/Gold Medal* **(2005)**
6. *College of Physical Therapy Outstanding Graduate/Class Valedictorian* **(2005).**

**Funded Research Grants**

|  |  |
| --- | --- |
| 1. **Co-investigator & Mentor: HS Baweja**   **PI – Jessie Agrimis SDSU DPT ‘17**  **Source:** *Parkinson’s Foundation (Community Engagement Grant)*  Jump Start Your Journey   1. **Co-Investigator: HS Baweja (PI – Brandy Lipton)**   **Source:** *National Eye Institute*  Impact of routine eye care coverage on access to eye care and fall-related outcomes among low-income Medicare enrollees   1. **Principal Investigator: HS Baweja**   **Source:** Sony Corp. Tokyo Japan  Immersive Space Entertainment DOME (NDA Protected)   1. **Principal Investigator: HS Baweja**   **Sources:** FoxFury Inc, Canon Cameras, Insta 360  Environment Purification Systems and Forensic Visualization  **COMPLETED**   1. **Co-PI: HS Baweja (PI – Shirin Hooshmand)**   **Source:** Strawberry Foundation  **Title:** Impact of strawberries on cognitive and motor function and vascular and cardiometabolic risk markers in older healthy adults  **2**. **Principal Investigator**  **Source:** *SDSU University Grants Program*  **Title:** Identifying Neural Mechanisms to Augment Cognitive and Sensorimotor Function in Parkinson’s Disease | **6/22-5-23**  **$12,500**  **6/22-5/26**  **$2,004,855**  **3/20-12/25**  **Equipment grant**  **9/20-2/21**  **Equipment Grant**  **9/19 -9/21**  **$146,000**  **1/16-6/17**  **$9,990** |
| **3. Principal Investigator**  **Source***: SDSU University Grants Program* | **1/15-6/17** |
| **Title**: Identifying neural mechanisms underlying force variability in children | **$9,980** |
| **4. Principal Investigator**  **Source:** *President’s Leadership Fund* | **1/15-12/17** |
| **Title**: Novel Interventions in re-training balance and fall prevention in older adults. | **$11,320** |
| **5. Post-doctoral research fellow (Salary + benefits)**  **Source:** *Eunice Kennedy Shriver National Institute of Child Health and Human Development*  **PI:** Robert L. Sainburg | **9/10-9/15**  **$1,041,055** |
| **Title**: Predicting ipsilesional motor deficits in stroke with the dynamic dominance model. |  |
|  |  |
| **6. Graduate Research Assistant (Stipend + Tuition)**  **Source:** *National Institutes of Aging*  **PI:** Evangelos A. Christou | **9/08-9/13** |
| **Title**: Aging and learning of fine motor tasks | **$1,022,800** |

**Funded Training Grants**

|  |  |
| --- | --- |
| 1. **Principal Investigator and Mentor 09/16 – 12/16**   **Source***: College of Health and Human Services IRA Program*  **Conference travel for 5th Concussion Consortium to Berlin Germany $3,372**   1. **Principal Investigator and Mentor 09/16 – 12/16**   **Source***: College of Health and Human Services IRA Program*  **Conference travel for Society for Neuroscience Annual Meeting $1,100**   1. **Principal Investigator and Mentor 06/16 - 09/16**   **Source***: SDSU Summer Undergraduate Research Program*  **Title**: Postural control and driving skills in aging and Parkinson’s disease **$3,000** | |
| 1. **Principal Investigator and Mentor**   **Source***: SDSU Division of Undergraduate Studies*  **Title:** Identifying neural mechanisms underlying movement control  deficits in humans with neurological disorders | **1/16-11/16**  **$975** |
| 1. **Principal Investigator and Mentor 06/15-09/15**   **Source***: SDSU Summer Undergraduate Research Program*  **Title:** Normative pre-concussion baseline database for balance and postural  sway measure in school and college-aged athletes **$2,609** | |
| 1. **Principal Investigator and Mentor 10/14-10/15**   **Source***: SDSU Division of Undergraduate Studies*  **Title**: Identifying neural mechanisms underlying grip force control in children. **$1,370** | |
|  |  |

**Funded Travel grants and graduate scholarships 2008-2012:** Over **6000$** in competitive funding

**Institute Funding Sources**

Texas A&M University - Department of Health and Kinesiology

* Sydney & JL Huffines Institute
* Faculty for Neuroscience
* Office of Graduate Studies
* Office of Vice President of Research

University of Florida - Howard Hughes Medical Institute

* Department of Applied Physiology and Kinesiology

- College of Health and Human Performance

**Other Grant Activity (Ongoing)**

1. **PI – Baweja HS**

**Sony Inc.**

**Title:** Sensor assessments for stressor identification in driving

**Amount:** 166,000$/3 months

**In review**

1. **PI – Baweja HS**

**Sony Inc.**

**Title:** Comprehensive Fitness-to-Drive Assessments in Aging and Cognitive Impairment: Prognostic Characterization of Patient Outcomes

**Amount:** 150,000$/12 months

**In review**

1. **Team Lead – HEROs Institute**

Fundraising Target – $ 100,000,000 ($ 100M) over 10 years

SDSU President’s BIG Ideas

**Ongoing**

1. **Principal Investigator: HS Baweja**

CA Bureau of Cannabis Control

**$1, 275, 313, 2 years**

Returning safer drivers to the road: Paving way for Objective Equitable Fitness to Drive Assessments in Cannabis Use Disorders

Acceptance rate <5%

1. **Principal Investigator: HS Baweja**

**Alliance Foundation – Impact Award (not funded)**

**Amount: $1,00,000/3 years**

**Title:**  How high is high to drive?

Acceptance Rate – Unknown

1. **Consultant/Mentor: HS Baweja (Janice Hau – PI/Post Doc)**

**Autism Speaks – Post-doctoral Award (not funded)**

**Amount: $130,600/ 2years**

**Title:**  Neural basis of motor dysfunction in autism across the lifespan

Acceptance Rate – Unknown

1. **Mentor: HS Baweja (Janice Hau – PI/Post Doc)**

**Brain & Behavior Research Foundation – Young Scientist Award (not funded)**

**Amount: $50,000/ 2years**

**Title:**  Neural basis of parkinsonian and motor dysfunction in 40-70-year olds with autism

Acceptance Rate – Unknown

1. **Principal Investigator: HS Baweja**

NIH Director’s Office – New Innovator Award 2018

**Amount: 5 Years/$1,500,000** (not funded)

**Title:** Augmenting neurosurgery and neuromodulatory programming for deep brain stimulation.

**Acceptance Rate <10%**

1. **Co-Investigator: HS Baweja (15% load)**

**Principal-Investigator:** Paul E Gilbert PhD

National Institutes of Aging

**Amount: 5 Years/$1,500,000** (Not funded)

**Title:** Cognitive Processing Deficits in Older Adults at Risk for Alzheimer's disease.

1. **Principal Investigator and Mentor: HS Baweja**

**Co-Investigator:** Mathes M Burke (Graduate student)

SDSUCenter for Clinical and Cognitive Neuroscience

**Amount: 2 Years/$5,000**

**Title:** Cortico-muscular mechanisms for freezing of gait in Parkinson’s disease using virtual reality.

1. **Principal Investigator: HS Baweja**

**Co-PI:** Paul E Gilbert PhD

SDSUCenter for Clinical and Cognitive Neuroscience – Collaborative Pilot Grant

**Amount: 1 Year/$10,000**

**Title:** Neuromechanics of driving in older adults with cognitive impairment

1. **Principal Investigator: HS Baweja**

Parkinson’s Disease Foundation – Stanley Fahn Junior Faculty Award

**Amount: 3 Years/$300,000** (Not funded)

**Title:** Cortico-muscular measures to detect and identify freezing of gait in Parkinson’s disease.

1. **Co-Investigator: HS Baweja (5% load)**

National Institutes of Health/National Institutes of Aging R01

**PI:** Paul E Gilbert

**Amount: 5 Years/$1,250,000** (not funded)

**Title:** Mnemonic Processing Deficits in Older Adults at Risk for Alzheimer's disease

1. **Principal Investigator: HS Baweja**

Michael J Fox Foundation

**Amount: 3 Years/$ 750,000** (not funded)

**Title:** Kinematic optimization of DBS in Parkinson’s disease.

1. **Co-applicant: HS Baweja**

SDSU Office of the Vice President

**PI:** Roger W. Simmons

**Amount: 1 Year/$50,000**

**Title:** Enriching Student and Faculty Scholarship in Health Promotion and Rehabilitation

**Participation in Professional Associations**

|  |  |  |
| --- | --- | --- |
| 2015-present | American Physical Therapy Association | Member |
| 2008-present | Society for Neuroscience | Member |
| 2010-present | American Congress of Rehabilitation Medicine | Member |
| 2012-present | American Society of Biomechanics | Member |
| 2003-2007 | Indian Association of Physiotherapists | Student Member |
| 2004-2006 | International Federation of Orthopedic Manipulative Physical Therapists | Student Member |

**Advanced Professional Meeting Attendance**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Society for Neuroscience** |  | |
| 2008 |  | Washington DC, USA | |
| 2009 |  | Chicago, IL, USA | |
| 2010 |  | San Diego, CA, USA | |
| 2011 |  | Washington DC, USA | |
| 2012 |  | New Orleans, LA, USA | |
| 2015 |  | Chicago, IL, USA | |
| 2016  2017  2018 |  | San Diego, CA, USA  Chicago, IL, USA  San Diego, CA, USA  Chicago, IL, USA | |
| 2019 |  |  | |
|  | **Brain Repair and Neuroplasticity Retreat** |  | |
| 2016 |  | Lake Arrowhead, CA, USA | |
| 2017 |  | Lake Arrowhead, CA, USA | |
|  |  |  | |
|  | **Motoneuron meeting: Mechanisms of plasticity**  **and disease in Motoneurons.** | |
| 2008 |  | Seattle, WA, USA | |
|  |  |  | |
|  | **Indian Association of Physiotherapy** |  | |
| 2004 |  | Jaipur, RJ, India | |
| 2005 |  | Hyderabad, AP, India | |
|  |  |  | |
|  | **Federation of Orthopedic Manipulative Physical Therapists** |  | |
| 2005 |  | Dehradun, UP, India | |
|  |  |  | |
|  | **American Society for Biomechanics** |  | |
| 2012 |  | Gainesville, FL, USA | |

**Q. HONORS AND AWARDS**

|  |  |
| --- | --- |
| *San Diego State University, San Diego, CA* |  |
|  |  |
| 2020 | SDSU CHHS Outstanding Graduate Faculty Award |
| 2017 | President’s Award - Health & Human Services College Council |
| 2017 | CHHS Most Influential Graduate Faculty Award |
| 2017 | SDSU Provost’s Outstanding Academic Advising – Faculty |
| 2016 | NIH Early Career Reviewer: Center for Scientific Review |
| 2016 | SDSU Person of the game – Faculty Focus (Men’s Basketball) |
| 2016 | President’s Award - Health & Human Services College Council |
| 2016 | SDSU Provost’s Outstanding Academic Advising – Faculty |
|  |  |
| *University of Florida, Gainesville, FL* |  |
|  |  |
| 2021 | 40 under 40 Gator Alumni Hall of Fame |
| 2012 | Outstanding International Student Academic Achievement |
| 2012 | HHMI-UF Science for Life Undergraduate Mentoring Award |
| 2012 | Stanley Lecture Graduate Poster Winner |
| 2011 | Outstanding International Student Academic Achievement |
|  |  |
| *Sardar Patel University, Gujarat, India* |  |
|  |  |
| 2005 | University Gold Medalist (*summa cum laude*), Batch of 2005 |
| 2005 | Outstanding Academic Achievement, Batch of 2005 |
| 2005 | Overall Outstanding Graduate, Batch of 2005 |
| 2004 | University Gold Medalist BPT 4th year |
| 2003 | University Gold Medalist BPT 3rd year |
| 2002 | University Gold Medalist BPT 2nd year |

**TEACHING EFFECTIVENESS**

**Student Doctoral/Masters/Undergraduate Thesis/Senior Design Projects**

**In Progress** (*Chairperson*):

**Marlene Mendoza, Christopher Snow, Tanner Roche, Matthew Nauman, Parker Diamond, Tristen Bledsoe.** Cannabis use impairs key neurological components of driving in adolescents. **Spring 2023**

**Cidney Amos, Jack Hogan, Kayla Kovaleski, Michael Nguyen, Paige Tolle, Briana Wintner.** The Effects of Exercise Based Interventions on Patients with Newly Diagnosed Parkinson’s Disease. **Spring 2024**

**In Progress** (*Committee member*):

**Sarah Chavez.** Latinx young adult alcohol consumption & ACE’s. **(PhD Candidate) Summer 2022**

**Jeanne Vu.** The effects of chemical GenX on longevity, locomotion, and brain gene expression in female and male Drosophila melanogaster. (**MSc Candidate) Summer 2022**

**Completed** (*Chairperson*):

1. **Alexandra Gibson, Taylor Carlson, Megan Thompson, Susan Sange, Natalie Wek.** Blood Flow restriction and its effects on biceps muscle activation patterns in young adults. **Spring 2022**
2. **Danae Navraza, Jilian Binuya, Meagan Marghiem, Emily Mays, Tyler DiLorenzo.** Effects of blood flow restriction on quadriceps muscle activation patterns. **Spring 2022**
3. **Anthony Percuoco, Alexander Lytle, Kyle Gunning, Juan Pablo Murcia**. Markers of balance Deficits in Pre-clinical Huntington’s disease. **Spring 2021**
4. **Tina Nyugen, Amanda Gon, DJ Green, Keiran Fyesenmyer, Jordan Spradlin.** Driving with a neurodegenerative disease – Huntington’s Disease. (*Doctor of Physical Therapy Program, San Diego State University*). **Spring 2020**
5. **Emily Carper, Natalie Dib, Candace Edwards, Jessica Fellow, Alex Harrington, Arianna Middleman, Andrew Stewart.** *Effect of workday length on motor performance***.** (*Doctor of Physical Therapy Program, San Diego State University*) **Spring 2019**
6. **Hedaya Rizeq***. Neuromechanics of driving in the young distracted driver. (Masters of Science in Applied Movement Sciences, San Diego State University).* **Spring 2018**
7. **Alexander Kress, Marvin J Rabanal, Megan Romero, Benjamin Vasko**. *Normative database of postural sway and balance in 30-60-year-old adults.* (*Doctor of Physical Therapy Program, San Diego State University*). **Spring 2018**
8. **Jessie Altman –** *Systematic review of motor control deficits in Autism Spectrum Disorders.* (*Doctor of Physical Therapy Program, San Diego State University*). **Spring** **2017**
9. **Kelsey Fitzgerald –** *Systematic review of motor control deficits in Fetal Alcohol Syndrome.*(*Doctor of Physical Therapy Program, San Diego State University*). **Spring** **2017**
10. **Anthony Lima.** *Systematic review of motor control deficits in ADHD***.** (*Doctor of Physical Therapy Program, San Diego State University*). **Spring** **2017**
11. **Nicholas Woods – Systematic review of motor control deficits in DCD.** (*Doctor of Physical Therapy Program, San Diego State University*). **Spring** **2017**
12. **Christina Van Ert. Systematic review of motor control deficits in Childhood obesity.**(*Doctor of Physical Therapy Program, San Diego State University*). **Spring** **2017**
13. **Jereme Schumacher. Systematic review of motor control deficits in Childhood obesity. (***Doctor of Physical Therapy Program, San Diego State University*). **Spring** **2017**
14. **Christoph Barbod, Daniel Anderson, Emily Lane, Kyle Seamen, Taylor Wagner.** *Modular Upper-limb Rehabilitation Virtual Reality Module*. Bachelor’s of Science, *Mechanical Engineering, San Diego State University.* ***Spring******2015.***

**Completed** (*Committee member*):

1. **Tyler Smith, Mason Hearne, Jaquline Bordessa, Alexander Rienfeldt.** Comparison of Blood Flow Restriction Devices and Their Effect on Quadriceps Muscle Activation. **Spring 2020**
2. **Breanna Blancher, Kevin Carey, Casey Conner, Matthew Hemphill, Sophia Kanakaris, Caitlin Segelke, Sydney Strom.** Cardiovascular, Metabolic and Muscular Responses to Exoskeleton Walking with Functional Electrical Stimulation in people with Spinal Cord Injury: A Case Series. **Spring 2019**
3. **Ball Steven, Baxter Carla, Kennard Lennard, Pham Branden, Rosario Simary, Sanscattier Chelsey**. Oxygen uptake and muscle activation during walking in an Exoskeleton with variable assistance for individuals with incomplete spinal injury: A case series. **Spring 2018**
4. **Shelby Colwell, Wendy Dorr, Melissa Goff, Brianne Hatherill, Rowena Tam, Shelby Wilcocks.** *Effects of overground bionic ambulation training on walking function and health in people with incomplete spinal cord injury: A case series. Doctor of Physical Therapy Program, San Diego State University*). **Spring** **2017**
5. **Reena Patil**. *Estimation of muscle activity using ECoG signals in Macaque Monkeys.* (*M.S. Electrical and Computer Engineering, San Diego State University*). **Fall** **2017**
6. **Kelsey Crooks, Alejandro Cerna, Ryan Gere, Nicholas Kniefel, Chelsea Santos.** Balance Tracking Systems (BTrackS): A reliability study of center of pressure metrics for single leg balance.Chair: Dr. Daniel Goble. **Spring 2015.**
7. **Melanie Barnes, Daniel Burt, Jessie Ortiz, Marcella Scholl.** Estimating Huntington’s disease onset using a low-cost balance assessment. Doctor of Physical Therapy, San Diego State University. Chair: Dr. Daniel Goble. **Spring 2015.**
8. **Brittany C Hollenbeck, Madison T Goildin, Arnold E Lazaga, Quang N Tran. N**ormative data for the Balance Tracking System (BTrackS): Future implications for brain injury evaluations. Doctor of Physical Therapy, San Diego State University. Chair: Dr. Daniel Goble. **Spring 2015.**
9. **Paula M Whiting,** **Leslie A Thompson, Ricky A Bhatia, Devon J Ehrlichman.**  Injuries in Interscholastic cross-country: Predicting injuries using selected lower extremity functional and static anatomic measures. Doctor of Physical Therapy, San Diego State University. Chair: Dr. Mitch Rauh. **Spring 2015.**
10. **Jeremy Zetterberg.** *Design and**Development of a 2DOF upper extremity haptic device for neurorehabilitation*. MS Mechanical Engineering, San Diego State University 2015**. Summer 2015.**

**Independent Studies Supervised**

*Undergraduate*

* + 1. **Dante Picardi.** (Spring 2015) Assessment of force plate derived sway information. 3 Units
    2. **Selena Mae Soria.** (Spring 2015) Normative database for pre-concussion baseline for postural sway in children and athletes. 3 Units
    3. **Christina Frenchik.** (Spring 2015) Identifying neural mechanisms underlying grip force in children. 3 Units
    4. **Kristel Ruelos.** (Fall 2016) Changes in motor output variability across the lifespan. 1 Unit
    5. **Ivy Nyugen.** (Fall 2016) Neuromechanics of driving in the older driver with cognitive impairment. 1 Unit
    6. **Selena Mae Soria.** (Fall 2016) Balance deficits following concussions in Division-1 athletes. 3 Units

*Graduate*

* + - 1. **Mathes m Burke III.** (Fall 2016) Freezing of gait in a virtual reality setting. 3 units
      2. **Hedaya Rizeq.** (Fall 2016) Neuromechanics of driving in older adults. 3 units
      3. **Courtney Moltzen.** (Fall 2016) Aging and learning of novel motor tasks. 3units
      4. **Mason C Hearn.** (Spring 2017) Freezing of gait in a virtual reality setting. 3 units

*Doctoral*

1. **Mason C Hearn.** (Fall 2017) Freezing of gait in a virtual reality setting. 3 units

**Teaching Conferences and Presentations**

**Presentations –**

1. **Baweja HS (2021**) **– Speaker & Panelist** – The Unorthodox Professor: Rethinking Pedagogy. Digital Education Futures Initiative (DEFI), Cambridge University, Cambridge, UK. July 22, 2021
2. **Baweja HS (2021) – Guest Speaker –** Pathway to a career in Physical Therapy. California Polytechnic University at Pomona - Kinesiology and Health Promotion Club. Online. April 8, 2021.
3. **PANEL –** **Baweja HS (Host)**, Arias R, Popescu M, Smith D. (**2019)** Immersive Learning – Teaching the Next Generation Classroom. Directors of Education Technology/California Higher Education. December 3-6, San Diego CA
4. **Baweja HS.** **(2019)** California State University – Immersive Learning Common Interest Group: AR/VR/MR/360 and Artificial Intelligence. CSU Directors of Academic Technology. Pre-conference. San Diego, CA. Dec 2nd 2019.
5. **Baweja HS** – Podcast Panelist – Transforming the Classroom: Fireside Charla with SDSU President Adela De La Torre. Episode 4. May **2019**
6. **Baweja HS.** The unorthodox professor – Rethinking how we teach the future. Keynote. Newschool of Architecture, San Diego, CA, September 2018.
7. Hauze S & **Baweja HS.** Virtual Immersive Teaching and Learning: VR, AR, MR, and 360º Video at San Diego State University and Beyond. UB Tech, Las Vegas, June 4-6, 2018
8. Frazee JP & **Baweja HS.** Virtual Immersive Teaching and Learning (VITaL): We’re only limited by our imagination**.** 32ndDirectors of Education Technology – California Higher Education Conference, Costa Mesa, CA. Nov 28-Dec 1, 2017.
9. **Baweja HS.** Using immersive technology in- and outside classrooms. CTL Lunch and Learn series on New Frontiers in Higher Education. September 12, 2017. San Diego State University, San Diego, CA
10. **Baweja HS.** Human performance testing in virtual environments. SDSU-ITS XR Showcase. June 19th 2017. San Diego State University, San Diego, CA

**Higher education talks –**

Directors of Education Technology – California Higher Education

Costa Mesa, CA 2017

San Diego, CA 2019

SDSU Center for Teaching and Learning

Lunch and Learn - September 2017

SDSU Instructional Technology Services XR Showcase 2017

**Teaching Grants**

**Baweja HS.** CSU Statewide - Virtual Immersive Teaching and Learning CIG. CSU Chancellor’s office. $18,000 (Awarded)

**Baweja HS**. We are only limited by our imagination. Common Experience Award - $2750 (SDSU Division of Academic Engagement and Student Achievement). 2017-18 (Awarded)

**Notable Curriculum Development and Teaching Innovations**

1. **Learning Management System Advisory Group (AY 2019 – 2020) –** Over a 12-month period prior to and during COVID I served on the LMS Advisory group that ran focus groups, pilot sessions, sought feedback and gathered data to make a recommendation to the university to transition our LMS from Blackboard to Canvas.
2. **Qwickly Attendance Tool Pilot tester (Fall 2020) –** After the adoption of Canvas in 2020, I pilot tested the Qwickly Attendance tool for Canvas in a hybrid graduate class. We did not adopt this tool as a campus following the pilot.
3. **CSU Chancellor’s Office - Special Assignment** – For the AYs 2018-2020 I had a special assignment from the Chancellor’s Office under the direction of Dr. Jean-Pierre Bayard (Director, Learning Technology & Services) and Dr. Gerry Hanley (Asst. Vice Chancellor, Academic Technology Services) to setup and lead a statewide CSU endeavor in Virtual Immersive teaching and Learning across the 23 CSU campuses and others to bring current day immersive teach into main stream teaching.
4. **SDSU Instructional Technology Services Faculty Fellow** – I am one of 9 ITS Faculty fellows, starting AY 2017. My specific role as the ITS fellow is twofold – 1) to spearhead and enhance the curriculum development around eXperiential Reality (XR) technologies across SDSU (XR is an umbrella term for virtual, augmented and mixed reality solutions). And, 2) Enhance the overall visibility of ITS XR services and Virtual and Immersive Teaching and Learning (VITaL) learning space among the instructional faculty and staff at SDSU.

**SERVICE**

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| **Service for the Department** | |  |
|  |  |  |
| 2018- 2021 | SDSU DPT *Program* Strategic Communications | Chair |
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| 2014-2019 | SDSU DPT *Program* Curriculum Committee | Chair |
| 2021- date |  | Member |
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| 2020-2021 | SDSU DPT Student Affairs Committee | Member |
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| 2015 - 16, | SDSU *School* of Exercise & Nutritional Sciences Faculty Search Committee | Member |
| 2019 - 20 |  |  |
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| **Service for the College** | |  |
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| 2018-date | SDSU College of Health and Human Services | Diversity Liaison |
| 2015-2019 | SDSU *College* of Health and Human Services Curriculum Committee | Chair |
| 2017 | SDSU College of Health and Human Services Space Committee | Member |
| 2017 | SDSU College of Health and Human Services – Student Success Fee Committee | Faculty Member |
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| **Service for the University** | |  |
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| 2021-2022  2020-2021 | FUERTE OPAN Cluster Search Committee  COVID – CDI and Faculty Fellow ECRT | Chair  Member |
| 2019-2020 | Learning Management System Advisory Group | Member |
| Fall 2020 | Quickly Attendance Tool | Pilot Tester |
| 2020- date | Strategic Plan Steering Committee – Inclusive Excellence | Member |
| 2021- date | Strategic Planning Advisory Committee – Industry Partnerships | Member |
| 2017- date | SDSU Instructional Technology Services | Faculty Fellow |
| 2015-2018 | SDSU – Institutional Endorsement Letter Committee | Member |
| 2015- date | SDSU - *University Senate* Instructional & Information Technology Services Committee | Member |
| 2015- date | SDSU - *University* Student Research Symposium | Jury |
| 2015- date | SDSU Matlab Advisory Group | Member |
| 2013 | Penn State Graduate Research Symposium | Jury |
| 2013 | Penn State Undergraduate Research Symposium | Jury |
| 2013 | PSU Annual Dance maraTHON – For the Kids | Physical Therapy |
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| **Service for the Profession** | |  |
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| **Reviewer/Editorial Board** for Professional International Journals & Organizations | |  |
| 2020 – present | a.     Healthcare (Special Edition) | Guest Editor |
| 2019 - | b.     Reviewer Board – Entropy | Reviewer Board |
| 2017 - | c.     Sports Medicine | Reviewer |
| 2017 - | d.     Medical Education Online | Reviewer |
| 2017 - | e.     Journal of Sports Rehabilitation | Reviewer |
| 2017 - | f.      Journal of Neurology and Neurorehabilitation Research | Reviewer |
| 2017 | g.     IEEE World Haptics Conference (WHC) | Reviewer |
| 2017 - | h.     IEEE International Conference on Rehabilitation | Reviewer |
|  | Robotics (ICORR) | Reviewer |
| 2016 - present | i. Journal of Motor Learning and Development | Reviewer |
| 2017 - | j. Human Movement Science | Reviewer |
| 2016 - present | k.     Journal of the International Neuropsychological Society | Reviewer |
| 2016 - present | l. Medicine and Science in Sports and Exercise | Reviewer |
| 2014 - present | m.   Frontiers in Physiology | Reviewer |
| 2012 - present | n.     Research Quarterly in Exercise and Sports | Reviewer |
| 2010 - present | o.     Journal of Neuroscience Methods | Reviewer |
| 2010 - present | p.     Journal of Motor Behavior | Reviewer |
| 2009 - present | q.     Archives of Physical Medicine and Rehabilitation | Reviewer |
| **2.** **Grant Reviewer**: |  |  |
| 2017 | a.     National Institutes of Health – Center for Scientific Review | Reviewer |
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| [**Press and media coverage (Hyperlinked; ⌘ upcoming) –**](https://www.google.com/search?q=baweja+sdsu&safe=active&rlz=1C5GCEM_en&sxsrf=ALeKk03jqOjpGoHUuIPxb9du8eeQSpD2xQ:1622777677379&source=lnms&tbm=nws&sa=X&ved=2ahUKEwi6pon4hf3wAhUG7J4KHfi0BZkQ_AUoAXoECAEQAw&biw=1440&bih=766) | |  | |
| Apr 2021 | NBC 7 News | | [Special Feature](https://www.nbcsandiego.com/videos/sdsu-professors-project-holograms-to-students-laptops-using-immersive-reality/2571903/) | |
| Feb 2020 | CBS Morning News | | [Press report](https://ens.sdsu.edu/blog/2020/04/24/boundless-fashion-show/) | |
| Fall 2020 | SDSU News Center | | [Student Feature](https://newscenter.sdsu.edu/sdsu_newscenter/news_story.aspx?sid=78222) | |
| Mar 2020 | NBC 7 News | | [COVID Feature](https://www.nbcsandiego.com/news/investigations/why-more-young-males-in-san-diego-county-test-positive-for-coronavirus/2292888/) | |
| Aug 2018 | 360 Magazine | | [Research Feature](https://issuu.com/sdsu360mag/docs/360summer_2018__7.17.18__issuu_) | |
| Apr 2018 | SDSU News Center – VR Learning | | [Press Report](http://newscenter.sdsu.edu/sdsu_newscenter/news_story.aspx?sid=77193) | |
| Jun 2018 | SDSU News Center – Big Data | | [Press Report](http://newscenter.sdsu.edu/sdsu_newscenter/news_story.aspx?sid=77254) | |
| July 2017 | San Diego Union Tribune - Focus | | [Press report](http://www.sandiegouniontribune.com/news/science/sd-me-aging-place-20170630-story.html) | |
| Mar 2017 | Southwest Magazine | | [Advertisement](https://drive.google.com/file/d/0B0kCcPfi_9eIOWEyc2VZZDBuNU0/view) | |
| Feb 2017 | San Diego Magazine | | [Advertisement](http://sandiegomagazine.com/digitaleditions/February-2017/files/assets/common/downloads/publication.pdf) | |
| Fall 2016 | SDSU - CHHS Pulse | | [Special Coverage](https://chhs.sdsu.edu/pulse-online/fallwinter-2017/ens-9/) | |
| Jul 2017 | Life lines magazine | | [Special Coverage](https://www.biocom.org/s/LifeLines) | |
| Summer 2017 | 360 Magazine | | [Student Success feature](https://issuu.com/sdsu360mag/docs/360_summer_2017) | |
| Apr 2016 | SDSU Daily Aztec coverage on publication | | [Press report](http://newscenter.sdsu.edu/sdsu_newscenter/news_story.aspx?sid=76108) | |
| Apr 2016 | India Today coverage on publication | | [Press report](http://indiatoday.intoday.in/story/new-portable-machine-may-accurately-detect-concussions/1/634189.html) | |
| Apr 2016 | Press Coverage for Concussion Publication | | [Press report](https://news.google.com/news/story?cf=all&hl=en&pz=1&ned=us&q=sdsu+goble+concussion&cf=all&ncl=dO78qgWhn9-uOMMWcftD2vZnS1CvM&scoring=d) | |
| Nov 2016 | SDSU News center coverage for Society for Neuroscience presentations | | [Press report](http://newscenter.sdsu.edu/sdsu_newscenter/news_story.aspx?sid=76437) | |
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**Service for the Community**

9/26/21 Distinguished Gentleman’s Drive Host

3/31/20 Boundless Fashion Show Host/MC

5/3/17 In-service on Fall-risk assessment in a skilled nursing setting Invited talk

3/18/17 UCSD Health Multiple Sclerosis Expo, Invited guest

Fall-risk assessment and balance testing.

2014-2015 SDSU Associated Students Day Care Center Board Member

**Presentations/Talks/Speeches/Media**

4/18/15 San Diego Parkinson’s Association 5k Invited talk

6/16/15 Parkinsonian Radio Show Twilight Talk Radio Invited Radio Interview

6/12/15 High Tech High, INSPIRE week, San Diego, CA Invited talk

06/2016 High Tech High, INSPIRE week, San Diego, CA Invited Talk

Fall 2022 ⌘ PBS (Ohio) – QED with Dr. B Primetime show