Curriculum Vitae

Se-Woong Park, PhD
Assistant Professor
The University of Texas at San Antonio

Department of Kinesiology
College *for* Health, Community and Policy
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Education

Sep. 2008 – Jan. 2014 PhD in Biology

Northeastern University, Boston, MA
Advisor: Dagmar Sternad, Ph.D.
Dissertation title: *Acquisition and retention of asymmetric bimanual skills: Behavioral correlates of neuroplasticity*

Sep. 2004 - Aug. 2006 MS in Cognitive Science

Seoul National University, Seoul, Korea
Advisor: Kyoung-Min Lee, M.D., Ph.D.
Thesis title: *Correlation between phase synchronization of neuronal activity and clinical outcome of deep brain stimulation in patients with Parkinson's disease*

Mar. 1997 - Aug. 2004 BS in Physics

Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea
Early entrance after completing 2nd-year courses in high school
Advisor: Hawoong Jeong, Ph.D
Thesis title: *Comparison of the statistical properties in various linguistic networks*

Academic Appointments

Nov. 2019 – May 2020 Affiliate Faculty Member, the Autism Research Center, University of Texas at San Antonio, San Antonio, TX (discontinued due to the COVID-19 lockdown)

Aug. 2019 - present Assistant Professor, Department of Kinesiology, University of Texas at San Antonio, San Antonio, TX

Dec. 2017 – Nov. 2021 Research Affiliate, Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA

Oct. 2017 – Jan. 2019 Consultant (PI: Prof. Robert Hillman), MGH Institute of Health Professions, Boston, MA

Sep. 2017 – May 2019 Associate Research Scientist, Northeastern University, Boston, MA

Jan. 2014 – Aug. 2017 Postdoctoral Research Associate, Northeastern University, Boston, MA (PI: Prof. Dagmar Sternad)

Sep. 2008 – Dec. 2013 Research Assistant, Northeastern University, Boston, MA (PI: Prof. Dagmar Sternad)

Jan. 2007 – Apr. 2008 Research Assistant, the Smith-Kettlewell Eye Research Institute, San Francisco, CA (PIs: Profs. Edward L. Keller and Kyoung-Min Lee)

Publications

Google Scholar Citation (as of 12/12/2025): 429, H-Index: 11
PubMed bibliography: http://www.ncbi.nlm.nih.gov/myncbi/browse/collection/48456820
Google Scholar My Profile: https://scholar.google.com/citations?user=grE7rAkAAAAJ&hl=en

*=Corresponding author, $^{+}$=UTSA Student author under my supervision, IF_{2023}=JCR Journal Impact Factor in 2023, IF_{5yr}=JCR 5-year Impact Factor, JCR_{2023} =JCR Journal Ranking in 2023, SJR_{2023}=Scimago Journal Ranking in 2023

Peer-Reviewed Journal Articles

1. *Umeda, M., Kim, Y., **Park, S.-W.,** Chung, E. (Accepted) Associations of discrimination and physical activity with social pain sensitivity and a moderating effect of gender in young adults. *PLoS One*
   - IF_{2024}=2.6, IF_{5yr}=3.2, JCR_{2024}=Q1, SJR_{2024}=Q1.
   - Contribution: Designed study, analyzed data, revised draft, and edited manuscript

2. [+]Siqueiros, J., Holloway, K., Lin, M.-L., *Neely, L., Cordova, A., Land, W., *Oyama, S. & ***Park, S.-W**. (2025). Influence of loud auditory noise on postural stability in autistic children: An Exploratory Study. *Scientific Reports* 15, 19882. https://doi.org/10.1038/s41598-025-04686-x
   - IF_{2023}=3.8, IF_{5yr}=4.3, JCR_{2023}=Q1, SJR_{2023}=Q1
   - Contribution: Designed study, analyzed data, revised draft, and edited manuscript
3. [+]Angel, R., & ***Park, S.-W.** (2025)**.** Dynamic interactions between discrete and rhythmic bimanual movement. *Experimental Brain Research* 243, 76. https://doi.org/10.1007/s00221-025-07028-5
   - IF_{2023}=1.7, IF_{5yr}=1.8, JCR_{2023}=Q4, SJR_{2023}=Q3
   - Contribution: Designed study, analyzed data, revised draft, and edited manuscript
4. ***Park, S.-W.,** Oh, J.S., Shin, M.J., Lee, J.Y., Lee, K.M., Ryu, J.K., & Sternad, D. (2024). Changes of upper-limb kinematics during practice of a redundant motor task in patients with Parkinson's disease. *Scientific Reports* 14, 26958. https://doi.org/10.1038/s41598-024-76015-7
   - IF_{2023}=3.8, IF_{5yr}=4.3, JCR_{2023}=Q1, SJR_{2023}=Q1
   - Contribution: Designed study, analyzed data, wrote draft, and edited manuscript
5. ***Park, S.-W**., Crozier, D., Cardinaux, A., Russo, M., Bond, S., Kjelgaard, M., Sinha, P., & Sternad, D. (2024). Interceptive abilities in autism spectrum disorder: Comparing naturalistic and virtual visuomotor tasks. *Autism Research*, 17(12), 2514–2534. https://doi.org/10.1002/aur.3246
   - IF_{2023}=5.3, IF_{5yr}=5.5, JCR_{2023}=Q1, SJR_{2023}=Q1
   - Contribution: Designed study, collected data, analyzed data, supervised students, wrote draft, and edited manuscript
6. *Umeda, M. & **Park, S.-W.** (2024). Association Between Self-Construals, Social Pain Sensitivity, and Gender in Young Adults. *The Journal of Psychology*, 1–16. https://doi.org/10.1080/00223980.2024.2340633
   - IF_{2023}=2.2, IF_{5yr}=3.5, JCR_{2023}=Q2, SJR_{2023}=Q1
   - Contribution**:** Collected data and edited manuscript
7. *Neely, L., Carnett, A., Quarles, J., **Park, S.-W.,** Kelly, M. (2023). Behavior analytic technologies mediated via augmented reality for autism: A systematic review. *The Review Journal of Autism and Developmental Disorders,* 36, 243–269. https://doi.org/10.1007/s10882-023-09912-w
   - IF_{2023}=1.5, IF_{5yr}=1.7, JCR_{2023}=Q2, SJR_{2023}=Q2
   - Contribution**:** Wrote draft (an essential paragraph and table), and edited manuscript
8. *Umeda, M., Kim, Y., **Park, S.-W.,** Chung, E., & Ullevig, S. (2023). Food insecurity and academic function among college students during the COVID-19 pandemic: A moderating role of first-generation college student status. *Journal of American College Health* 72(9), 3576–3582. https://doi.org/10.1080/07448481.2023.2185076
   - IF_{2023}=1.6, IF_{5yr}=2.2, JCR_{2023}=Q2, SJR_{2023}=Q2
   - Contribution**:** Collected data and edited manuscript

9. ***Park, S.-W**., Cardinaux, A., Crozier, D., Kjelgaard, M., Sinha, P., & Sternad, D. (2023). Developmental change of predictive motor skills. *iScience,* 26: 106038. https://doi.org/10.1016/j.isci.2023.106038
   - IF_{2023}=4.6, IF_{5yr}=5.0, JCR_{2023}=Q1, SJR_{2023}=Q1
   - Contribution**:** Designed study, collected and analyzed data, wrote draft, and edited manuscript
10. *Neely, L., Carnett, A., Quarles, J., MacNaul, H., **Park, S.-W.,** Oyama, S., Chen, G., Desai, K., & Najafirad, P. (2023). The case for integrated technology in applied behavior analysis. *Advances in Neurodevelopmental Disorders*, **7**, 415–425. https://doi.org/10.1007/s41252-022-00309-y
    - IF_{2023}=1.3, IF_{5yr}=NA, JCR_{2023}=Q2, SJR_{2023}=Q2
    - Contribution**:** Wrote draft (an essential paragraph), and edited manuscript
11. *Van Stan, J.H., **Park, S.-W.,** Jarvis, M., Stemple, J., Hillman, R., Sternad, D. (2021). Quantitative Assessment of Learning and Retention in Virtual Vocal Function Exercises. *Journal of Speech Language Hearing Research.* 64 (1), 1-15. https://doi.org/10.1044/2020_JSLHR-20-00357
    - IF_{2023}=2.2, IF_{5yr}=2.6, JCR_{2023}=Q1, SJR_{2023}=Q1
    - Contribution: Conceived idea of task model, designed model, consulted programming and data analysis, wrote method section, and edited manuscript
12. *Crozier, D., Zhang, Z., **Park, S.-W.** & Sternad, D. (2019). Gender Differences in Throwing Revisited: Sensorimotor Coordination in a Virtual Ball Aiming Task. *Frontiers in Human Neuroscience.* 13, 231. https://doi.org/10.3389/fnhum.2019.00231
    - IF_{2023}=2.4, IF_{5yr}=3.0, JCR_{2023}=Q2, SJR_{2023}=Q2
    - Contribution**:** Supervised and validated data analysis and edited manuscript
13. *Zhang, Z., Guo, D., Huber, M.E., **Park, S.-W.,** & Sternad, D. (2018). Exploiting geometry of solution space to reduce sensitivity to neuromotor noise. *PLoS Computational Biology.* e1006013. https://doi.org/10.1371/journal.pcbi.1006013
    - IF_{2023}=3.8, IF_{5yr}=4.3, JCR_{2023}=Q1, SJR_{2023}=Q1
    - Contribution: Initiated study, supervised and validated data analysis, implemented devices, and edited manuscript
14. *Van Stan, J.H., **Park, S.-W.**, Jarvis, M., Mehta, D.D., Hillman, R.E., Sternad, D. (2017). Measuring vocal motor skill with a virtual voice-controlled slingshot. *Journal of the Acoustical Society of America.* 142(3), 1199-1212. https://doi.org/10.1121/1.5000233
    - IF_{2023}=2.1, IF_{5yr}=2.2, JCR_{2023}=Q1, SJR_{2023}=Q1
    - Contribution**:** Conceived idea of task model, designed model, supervised data analysis, wrote method section, and edited manuscript
15. ***Park, S.-W.,** Hogan, N., Marino, H., Charles, S.K., Sternad, D. (2017). Moving slowly is hard for humans: Limitations of dynamic primitives in human motor control. *Journal of Neurophysiology.* 118(1), 69-83. https://doi.org/10.1152/jn.00643.2016

- IF_{2023}=2.1, IF_{5yr}=2.5, JCR_{2023}=Q3, SJR_{2023}=Q2
- Contribution**:** Collected and analyzed data, wrote draft and edited manuscript

16. Chu, V.W., ***Park, S.-W.,** Sanger, T., & Sternad, D. (2016). Children with dystonia can learn a novel motor skill: Strategies that are tolerant to high variability. *IEEE Transactions on Neural Systems and Rehabilitation Engineering,* 24(8), 847-858. https://doi.org/10.1109/TNSRE.2016.2521404
    - IF_{2023}=4.8, IF_{5yr}=5.4, JCR_{2023}=Q1, SJR_{2023}=Q1
    - Contribution**:** Collected and analyzed data, revised and edited manuscript
17. ***Park, S.-W.**, & Sternad, D. (2015). Robust retention of individual sensorimotor skill after self-guided practice. *Journal of Neurophysiology*, 113(7), 2635-2645. https://doi.org/10.1152/jn.00884.2014
    - IF_{2023}=2.1, IF_{5yr}=2.5, JCR_{2023}=Q3, SJR_{2023}=Q2
    - Contribution: Designed study, collected and analyzed data, revised and edited manuscript
18. **Park, S.-W.**, Djikstra, T.M.H., & *Sternad, D. (2013). Learning to never forget—time scales and specificity of long-term memory of a motor skill. *Frontiers in Computational Neuroscience,* 7, 111. https://doi.org/10.3389/fncom.2013.00111
    - IF_{2023}=2.1, IF_{5yr}=2.9, JCR_{2023}=Q2, SJR_{2023}=Q3
    - Contribution**:** Analyzed data, wrote draft, and edited manuscript
19. *Sternad, D, **Park, S.-W.,** Müller, H., & Hogan, N. (2010). Coordinate dependence of variability analysis. *PLoS Computational Biology*, 6(4), e1000751. https://doi.org/10.1371/journal.pcbi.1000751
    - IF_{2023}=3.8, IF_{5yr}=4.3, JCR_{2023}=Q1, SJR_{2023}=Q1
    - Contribution**:** Analyzed data and edited manuscript
20. *Keller, E.L., Lee, K.-M., **Park, S.-W**., & Hill, JA. (2008). The effect of inactivation of the cortical frontal eye field on saccades generated in a choice response paradigm. *Journal of Neurophysiology*, 100(5), 2726-2737. https://doi.org/10.1152/jn.90673.2008
    - IF_{2023}=2.1, IF_{5yr}=2.5, JCR_{2023}=Q3, SJR_{2023}=Q2
    - Contribution: Collected and analyzed data

Articles under Review

21. ***Park, S**.-W., & $^{+}$Valadez, R. (Submitted) Continued change of kinematics during prolonged practice after polyrhythmic skill acquisition. *Neuroreport*
    - Contribution: Designed study, collected and analyzed data, wrote draft, and edited manuscript
22. *Serre, H., Harrigian, K., **Park, S.-W**. & Sternad, D. (Under Review) Individual characteristics in discrete and rhythmic timing abilities. *Scientific Reports*
    - Contribution**:** Supervised and validated data analysis and edited manuscript

In Preparation for Submission

1. ***Park, S.-W.**, Ebert, J., & Sternad, D. Asymmetric learning in asymmetric bimanual tasks.
2. *Kim, J., **Park, S.-W.**, Sternad, D., & Large, E. A coupled oscillator model of bimanual polyrhythmic learning.

Peer-reviewed Conference Papers

1. Serna-Aguilera, M., Nguyen, X.B., Singh, A., Rockers, L., **Park, S.-W.,** Neely, L., Seo, H.S. & *Luu, K. (2024) Video-Based Autism Detection with Deep Learning, The 16th IEEE Green Technologies Conference (GreenTech), 159-161, Fayetteville, AR.
   - An IEEE-sponsored event hosted annually by universities across the US.
2. *Ryu, J.-K., Lee, K.-M., Lee, J.-Y., **Park, S.-W.**, & Oh, J. (2019) Motor skill learning and movement variabilities in Parkinson's disease: A new behavioral approach for evaluating the severity of Parkinson's disease, IBRO Reports, 6 Supplement, S167, Daegu, Korea.
   - International Brain Research Organization World Congress is an international neuroscience conference, established in 1982. The meeting has been held every 4 years (2,000-4,000 attendees on average)
3. ***Park, S.-W.,** Hogan, N., & Sternad, D. (2014). Coordinate invariance of variability analysis: A revised covariation cost analysis. The *40th Annual Northeast Bioengineering Conference*. Boston, MA.
   - An IEEE-sponsored event hosted annually by universities all over the Northeastern US area, established in 1974.

Presentations

Poster Presentations

1. Gonzalez, N., Silva, A., Lin, M-L., **Park, S-W**., & Oyama, S. Effects of object presence on kicking kinematics in children with autism spectrum disorder. *South Central American Society of Biomechanics*, Fort Worth, TX April 4-5, 2025.
2. Silva, A., Gonzalez, N., Lin, M-L., **Park, S-W**., & Oyama, S. Effects of object presence on throwing kinematics in children with autism spectrum. *South Central American Society of Biomechanics*, Fort Worth, TX April 4-5, 2025.
3. Telles, A., **Park, S-W.**, Lin, M-L. & Oyama, S. Exploring the relationship between plantar tactile sensitivity and gait in children with autism spectrum disorder: a pilot study. *South Central American Society of Biomechanics*, Fort Worth, TX April 4-5, 2025.

4. Serre, H., Sternad, D., Song, J-H., Nguyen, T. & **Park, S-W**. Stability of rhythmic movements in the face of dynamic, cognitive and perceptual interactions. *Neural control of Movement,* Panama City, Panama April 29,2025.
5. Kim, J.C., **Park, S.-W.** A theoretical model of acquisition and long-term retention in multifrequency bimanual coordination. *Neural control of Movement,* Panama City, Panama April 29,2025.
6. Schmitz, X.-V., **Park, S.-W**., Krotov, A, Bond, S., Russo, M., Cardinaux, A., Sinha, P. & Sternad, D. Anticipatory postural adjustments for voluntary arm movements in children with ASD. *Neural control of Movement,* Panama City, Panama April 29,2025.
7. Umeda, M., Kim, Y., **Park, S-W**. & Chung, E. Association of discrimination and physical activity with social pain sensitivity: Moderating effect of gender. American College of Sports Medicine Annual Meeting, Atlanta, GA May 26, 2025
8. Bilke, C., **Park, S.-W**., Giambini, H. & Oyama, S. Effects of Baseball Pitching Wrist Position at Stride Foot Contact on Upper Joint Moments. *American College of Sports Medicine Annual Meeting*, Atlanta, GA May 26, 2025
9. Vasko, M., Holloway, K., Neely, L., Byrne, S. & **Park, S-W**. Characterizing eye gaze paterns in autistic children during a predictive sensorimotor task. UT System Brain Research Summit, Austin, TX November 18-19, 2024
10. **Park, S.-W.**, Siqueiros, J. & Carroll, M. Changes in kinematic variability in the very early stages of motor learning. *Neural control of Movement,* Dubrovnik, Croatia April 16th, 2024.
11. Siqueiros J, Holloway K, Lin M, Neely L, Cordova A, Land W, Oyama S, & **Park S.-W.** Auditory noise improves postural control in children with and without autism spectrum disorder: a pilot study. *Neural control of Movement Satellite Meeting: Artificial sensorimotor control from restoration to augmentation,* Dubrovnik, Croatia April 15th, 2024.
12. Siqueiros J, Gonzalez G, Oyama S, Lin M, Neely L & **Park S.-W.** The relationship between postural stability and sensory processing in children with autism spectrum disorder. *South Central American Society of Biomechanics meeting,* Fort Worth, TX April 13th, 2024.
13. Gonzalez G, Gonzalez J, **Park S.-W**., Lin M, Oyama S, Assessment of throwing kinematics in children with autism spectrum disorder using marker less motion capture system. *South Central American Society of Biomechanics meeting*, Fort Worth, TX April 13th, 2024.
14. Singh, A., Luu, K., **Park**, S.-W., Neely, L. & Seo, H.-S. Comparisons between autistic and neurotypical children in explicit and implicit emotional responses to odor stimuli. *Abstract presented at Pangborn Symposium,* Paris, France August 2023
15. Singh, A., Luu, K., **Park**, S.-W., Neely, L. & Seo, H.-S. Comparisons between autistic and neurotypical children in explicit and implicit emotional responses to taste stimuli. *Abstract presented at Pangborn Symposium,* Paris, France, August 2023

16. Cordova, A., Stewart, M., Quarles, J., Mahmud, R., Yao, W., **Park**, S.-W., Land, W., Ogu, D. Real-time auditory feedback improves aging balance in immersive virtual environments. *Abstract presented at NASPSPA, in May 2023 in Toronto, ON, Canada.*

17. **Park, S.-W.**, Siqueiros, J., Carroll, M., Valadez, R. & Song, J.-H. (2023). Specificity of emergent timing in a polyrhythmic skill on time perception. *50th Annual Conference of the Society for Neuroscience,* Victoria, BC, Canada, April 17-21.
18. **Park, S.-W.,** Bond, S., Cardinaux, A., Russo, M., Crozier, D., Sinha,P., Sternad, D. (2023). Use of naturalistic and virtual interception tasks to examine predictive ability in individuals with autism spectrum disorder. *Neural control of Movement*, Victoria, BC, Canada, April 17-21.
19. **Park, S.-W.**, Bond, S., Cardinaux, A., Sinha, P., & Sternad, D. (2022). Postural atypicality during motor preparation in children with autism spectrum disorder. *International Society of Autism Research (INSAR),* Austin, TX, USA, May 11-14.
20. Angel, R., & **Park., S.-W.** (2021). Interactions between rhythmic and discrete movements in bimanual upper-limb control. *50th Annual Conference of the Society for Neuroscience*, Virtual Meeting, November 8.
21. Bond, S., **Park, S.-W.**, Russo, M., Cardinaux, A., Sinha, P., & Sternad, D. (2021). Predictive Impairments Compromises Motor Skills in Children with Autism Spectrum Disorder, Annual Conference of the Society for the Neural Control of Movement (NCM), Apr 20 - 22, Virtual Meeting.
22. Bond, S., **Park, S.-W.**, Russo, M., Cardinaux, A., Sinha, P., & Sternad, D. (2021). Computational Predictive Impairments Compromises Motor Skills in Children with ASD, Northeastern University Research, Innovation and Scholarship Expo, Apr 15, 2021, Virtual Meeting.
23. Bond, S., **Park, S.-W.**, Russo, M., Cardinaux, A., Sinha, P., & Sternad, D. (2021). Predictive Impairments in Motor Skills in Children with Autism Spectrum Disorder, 2021 Society for Neuroscience Global Connectome, Jan 11-13, Virtual Meeting.
24. **Park, S.-W.,** Cardinaux, A., Guo, D., Sinha, P., & Sternad, D. (2019). Developmental aspects of predictive motor skills. *49th Annual Conference of the Society for Neuroscience*, Chicago, IL, USA, October 22.
25. Cahill, A., Zhang, Z., **Park., S.-W.,** & Sternad, D. (2019). Extrinsic Noise Benefits Skill Acquisition and Timing Accuracy. *49th Annual Conference of the Society for Neuroscience*, Chicago, IL, USA, October 22.
26. Kim, J.C., **Park, S.-W.,** Sternad, D., & Large, E. (2019). A Dynamical Model of Polyrhythmic Bimanual Coordination: Hebbian Plasticity and Long-Term Retention of Personal Styles. *Society for Music Perception and Cognition*, New York, NY, USA, August 5-7.
27. **Park, S.-W.,** Cardinaux, A., Guo, D., Ben-Ami, S., Denna, L., Chan, K., Sinha, P., & Sternad, D. (2019). Predictive Motor Abilities in Children with Autism Spectrum Disorder: Evidence from

Kinematics and Muscle Activity. *International Society of Autism Research (INSAR),* Montreal, QC, Canada, May 1-4.

28. **Park, S.-W.,** Cardinaux, A., Guo, D., Ben-Ami, S., Denna, L., Sinha, P., & Sternad, D. (2018). Impaired motor abilities during prediction in children with Autism Spectrum Disorder. *Annual Conference of the Society for the Neural Control of Movement (NCM),* Santa Fe, NM, USA, April 30-May 4.
29. Zhang, Z., Cahill, A., Guo, D., **Park, S.-W.,** & Sternad, D. Throwing is not all about timing: Added noise can enhance tolerance to timing imprecision. *Annual Conference of the Society for the Neural Control of Movement (NCM),* Santa Fe, NM, USA, April 30-May 4.
30. **Park, S.-W.,** Cardinaux, A., Guo, D., Ben-Ami, S., Sinha, P., & Sternad, D. (2018). Quantification of predictive motor impairments in children with Autism Spectrum Disorder. *International Society for Autism Research (INSAR)*, Rotterdam, Netherlands, May 9-12.
31. **Park, S.-W.,** & Sternad, D. (2017). Time Scales and Specificity of Acquisition, Retention and Generalization of a Novel Motor Skill over Months and Years. *Annual Conference of the Society for the Neural Control of Movement (NCM)*, Dublin, Ireland
32. Zhang, Z., Huber, M., **Park, S.-W.,** & Sternad, D. (2016). Structure of solution space in a redundant motor task determines learning. *46th Annual Conference of the Society for Neuroscience*, San Diego, CA, USA
33. **Park, S.-W.,** Tam, H., & Sternad, D. (2016). Practice-induced changes in EEG during asymmetric bimanual skill learning. *46th Annual Conference of the Society for Neuroscience*, San Diego, CA, USA
34. **Park, S.-W.,** Tam, H., & Sternad, D. (2016). Practice-induced changes in cortical activity during bimanual skill learning: An EEG study. *Biomechanics and Neural Control of Movement*, Mt. Sterling, OH, USA
35. Van Stan, J.H., Jarvis, M.T., **Park, S.-W**., Sternad, D., Hillman, R.E., Mehta, D.D. (2015). Development of a two-dimensional virtual environment to study variability in vocal motor learning. *The 11th International Conference on Advances in Quantitative Laryngology*. London, U.K
36. Chu, V.W.T., **Park, S.-W.,** Sanger, T., & Sternad, D. (2015). Dystonic children can learn: improving sensorimotor performance by developing solutions that are tolerant to high variability. *Annual Conference of the Society for the Neural Control of Movement (NCM)*, Charleston, SC, USA
37. Ebert, J., **Park, S.-W.**, Sternad, D. (2015). Asymmetric learning in an asymmetric bimanual task. *Society for Neural Control of Movement*, Charleston, SC, USA
38. **Park, S.-W.**, Stead, C., & Sternad, D. (2015). Increase of interhemispheric coherence during acquisition of asymmetric bimanual movements. *Society for Neural Control of Movement*, Charleston, SC, USA

39. **Park, S.-W.**, Cowenhoven, J., & Sternad, D. (2014) Increase of interhemispheric coherence during acquisition of asymmetric bimanual movements. *44th Annual Conference of the Society for Neuroscience*, Washington, DC, USA
40. **Park, S.-W.,** Hogan, N., & Sternad, D. (2014) Coordinate invariance of variability analysis: A revised covariation cost analysis. *40th Annual Northeast Bioengineering Conference,* Boston, MA
41. **Park, S.-W.**, Ebert, J., & Sternad, D. (2013) Plasticity of interhemispheric interference in an asymmetric bimanual task. *43rd Annual Conference of the Society for Neuroscience*, San Diego, CA, USA
42. **Park, S.-W.**, Ebert, J., & Sternad, D. (2013) Plasticity of interhemispheric interference in an asymmetric bimanual task. *Progress in Motor Control, Montreal*, QC, Canada
43. **Park, S.-W.**, Ebert, J., & Sternad, D. (2013) Plasticity of interhemispheric interference in an asymmetric bimanual task. *Research, Innovation and Scholarship Expo*, Northeastern University, Boston, MA, USA
44. **Park, S.-W.**, Hogan, N., & Sternad, D. (2012) Coordinate invariance of variability analysis: A revised Covariation cost analysis. *42nd Annual Conference of the Society for Neuroscience*, New Orleans, LA, USA
45. Ebert, J., **Park, S.-W.**, Griffin, L., O'Neil-Pirozzi, T., & Sternad, D. (2012) Central fatigue in cognitive and motor performance. *Research, Innovation and Scholarship Expo,* Northeastern University, Boston, MA, USA
46. Farjadian, A. B., **Park, S.-W.**, & Sternad, D. (2012) Structure in variability: Searching for coordinate-insensitive methods to characterize motor control. *Research, Innovation and Scholarship Expo*, Northeastern University, Boston, MA, USA
47. **Park, S.-W.**, & Sternad, D. (2012) Learning and retention of a complex bimanual skill. *Research, Innovation and Scholarship Expo*, Northeastern University, Boston, MA, USA
48. **Park, S.-W.**, & Sternad, D. (2011) Individual differences in learning and retention of a complex bimanual skill. *41st Annual Conference of the Society for Neuroscience*, Washington DC, USA
49. Farjadian, A. B., **Park, S.-W.**, & Sternad, D. (2011) Performance improvement by optimizing error tolerance and covariation but not noise. *41st Annual Conference of the Society for Neuroscience*, Washington DC, USA
50. Farjadian, A.B., Geipel, A., **Park, S.-W.**, & Sternad, D. (2011) Improving performance by optimizing error tolerance and covariation but not noise. *Progress in Motor Control*, Cincinnati, OH, USA
51. **Park, S.-W.**, & Sternad, D. (2011) Learning an asymmetric bimanual task: decoupling of rhythmic and discrete movements. *Progress in Motor Control*, Cincinnati, OH, USA

52. **Park, S.-W.**, Djikstra T.M.H., & Sternad D. (2010) Generalization of learning and retention of a polyrhythmic bimanual skill. *40th Annual Conference of the Society for Neuroscience*, San Diego, CA, USA
53. **Park, S.-W.**, Djikstra T.M.H., & Sternad D. (2009) Learning of polyrhythmic synchronization in bimanual coordination and its retention after 8 years. *39th Annual Conference of the Society for Neuroscience*, Chicago, IL, USA
54. **Park, S.-W.**, Djikstra T.M.H., & Sternad D. (2009) Dynamics of a complex bimanual task during practice and long-term retention. *Progress on Motor Control*, Marseille, France
55. **Park, S.-W.**, Djikstra T.M.H., & Sternad D. (2009) Dynamics of a complex bimanual task during practice and long-term retention. *Dynamics Days: International Conference on Chaos and Nonlinear Dynamics*, San Diego, CA, USA
56. Keller, E.L., Hill, J.A., **Park, S.-W.**, & Lee, K.-M. (2008) Reversible inactivation of the cortical frontal eye fields: Effect on saccades generated by recall from associative memory. *38th Annual Conference of the Society for Neuroscience*, Washington DC, USA
57. **Park, S.-W.**, Lee, K.-M., Lim, Y.H., Kim, H.J., Paek, S.H., & Jeon, B.S. (2006) Correlation between phase synchronization of neural activity and the clinical outcome of deep brain stimulation in patients with Parkinson's disease. *28th Annual Meeting of the Korean Neurological Association*. Seoul, Korea
58. Heo, J.H., Seol, J.H., **Park, S.-W**., Kang, B.S., & Lee, K.-M. (2006) Violation of listing's law in patients with central and peripheral diplopia*. 9th Annual Meeting of the Korean Society for Brain and Neural Sciences*. Seoul, Korea
59. Woo, S.H., **Park, S.-W.**, & Lee, K.-M. (2006) Spatiotemporal pattern of brain activity during unilateral finger movement. *9th Annual Meeting of the Korean Society for Brain and Neural Sciences.* Seoul, Korea
60. **Park, S.-W**., Lee, K.-M., Lim, Y.H., Kim, H.J., Woo, S.H., Paek, S.H., & Jeon, B.S. (2006) Correlation between phase synchronization of neural activity in patients with Parkinson's disease and the clinical outcome of deep brain stimulation. *Dynamics Days: International Conference on Chaos and Nonlinear Dynamics*, Bethesda, MD, USA

Oral Presentations

1. Batista, A., Chase, S., **Park, S.-W**., Sternad, D., Swanson, R., & Wolpaw, J. Are memories active? Selected as a team presenter at the Annual Meeting of the Society for the Neural Control of Movement. Apr. 2023, Victoria, Canada.

2. **Park, S.W.,** Cardinaux, A., Guo, D., Ben-Ami, S., Denna, L., Sinha, P., & Sternad, D. Characterizing predictive motor impairments in time and space in children with autism spectrum disorder. New England Sequence and Timing (NEST), Apr. 2018, Storrs, CT, USA
3. **Park, S.-W.,** & Sternad, D. Robust retention of sensorimotor timing in a polyrhythmic task. New England Sequence and Timing (NEST), Mar. 2015, Amherst, MA, USA
4. **Park, S.-W**. Learning to never forget: Specificity of motor memory. Graduate Symposium, Biology department, Northeastern University. May, 2013, Nahant, MA, USA

Invited Talks

1. Studying Motor Behavior in People Living with Disabilities: Theory- and Community-Based Approaches. Research Roundtable at University of Texas at San Antonio. February 2024.
2. Kinematic and neural changes during the long-term practice of asymmetric bimanual skill. Texas A&M University, College Station, TX. February 2024.
3. Dynamic primitives: What are they, and how are they related to each other? Seoul National University, Seoul, Korea. July 2022.
4. Evaluating the effect of emergent timing in a polyrhythmic skill on time perception. Brown University (virtual). June 2022.
5. Quantification of complex motor behavior and its clinical applications. Daegu Gyeongbuk Institute of Science and Technology, Daegu, Korea. July 2019.
6. Understanding complex human motor control and learning in health and disease. Sungkyunkwan University, Suwon, Korea. July 2019.
7. Interpretation and quantification of motor variability. Institute of Cognitive Sciences, Seoul National University, Seoul, Korea. December 2017.
8. Acquisition, retention and generalization of asymmetric bimanual skills: Behavioral correlates of neuroplasticity. Sinha Lab, MIT, Cambridge, MA. October 2015
9. An interdisciplinary approach to motor control and learning. Institute of Cognitive Sciences, Seoul National University, Seoul, Korea. June 2015
10. What does our brain remember and forget? Specificity of motor memory. Institute of Cognitive Sciences, Seoul National University, Seoul, Korea. August 2014
11. Learning to never forget: Specificity of motor memory. PRISM lecture, Northeastern University, Boston, MA. May 2014
12. Noise, covariation and tolerance to error in learning a motor task. Department of Physical Education, Seoul National University, Seoul, Korea. June 2011

Additional Training and Summer Schools

1. Intensive Course in Transcranial Magnetic Stimulation (TMS), Feb. 25 - Mar. 1, 2013, Harvard Medical School, Boston, MA, USA
2. The 8th Motor Control Summer School, June 9 - 13, 2010, Bolivar, PA, USA
3. Neural Control and Biomechanics of Movement, graduate course 3.183 at MIT taught by Prof. Neville Hogan. Spring 2009. Grade: A (not recorded in NU transcript)

Honors and Awards

1. Nominated for University Excellence Awards (teaching excellence), UTSA, Apr. 7, 2023
2. NIH Travel Award: Biomechanics and Neural Control of Movement (BANCOM) Conference, Mt. Sterling, OH, June 12-17, 2016

Grant Proposals: Funded

Sponsored by UTSA (Total: $40,000)

1. UTSA COEHD Faculty Research Award: Characterizing electroencephalographic changes during complex upper-limb skill acquisition and retention ($5,000). Dec. 2019 – Jul. 2020. PI: Se-Woong Park.
2. UTSA Vice Provost REDKE Seed Grant (INTRA): Characterizing predictive gaze patterns and brain activity in children with autism spectrum disorder ($5,000). Nov. 2021 – Jul. 2022. PI: Se-Woong Park and Leslie Neely.
3. HCaP Explorer Seed Grant: Effects of desensitization of plantar surface in children with autism spectrum disorder with atypical gait ($5,000). Spring 2022. PIs: Sakiko Oyama and Se-Woong Park.
4. UTSA-MAC Collaborative Seed Funding Grant: Quantifying the “invisible” progress in rehabilitation of individuals with disabilities using emerging technologies ($10,000). Oct. 2023 – Jun. 2024. PIs: Sakiko Oyama, Se-Woong Park. Co-I: Jamie Jacobs.
5. UTSA Vice Provost REDKE Seed Grant (INTRA): Identifying perception-action couplings in practice-induced timing ($5,000). Oct. 2024 – Mar. 2026. PI: Se-Woong Park.
6. HCaP Seed Grant: Characterizing Eye Gaze Patterns in Autistic Children Across Diverse Contexts ($10,000). Nov. 2024 – Sep. 2025. PI: Se-Woong Park.

Sponsored outside UTSA (Total: $56,296.81)

1. 2023 UT Health San Antonio Institute for Integration of Medicine and Science Pilot and Collaborative Translational and Clinical Studies: Exploring interaction between kinematics and sensory profile in children with autism spectrum disorder ($48,723), Jun. 2023 – May 2024. PIs: Sakiko Oyama, Se-Woong Park. Co-I: Mei-Ling Lin.
2. University of the Incarnate Word (UIW) Faculty Endowment Award: Preliminary Study toward a Texas Institute for Combinative Expressive Therapies ($7,573.81). Oct. 2024 – Aug. 2025 PI: Kevin Salfen (UIW), Co-Is: Cathy Befi-Hensel, Adam Watkins, Andrew Bergman, and Se-Woong Park.

Grant Proposals: Pending

1. National Science Foundation (NSF) CAREER: Development of Predictive Motor Behavior ($493,253). 2026-2031, PI: Se-Woong Park
2. Simons Foundation Autism Research Initiative (SFARI) Data Analysis ($300,000). 2026-2028, PIs: Dagmar Sternad and Se-Woong Park

Grant Proposals: Not Funded (Submitted as PI or co-PI)

1. 2021-2022 BitBrain ™ Research Project: Characterizing neural activity in predictive motor behavior in autism spectrum disorders (approx. $50,000). PI: Se-Woong Park, Leslie Neely, John Quarles, Sakiko Oyama, Edward Golob
2. 2022- 2027 NIH-R01-NS121254-01A1: Emergence of perceptual timing from discrete and rhythmic actions ($1,875,000, total direct cost). PI: Joo-Hyun Song, Co-PIs: Se-Woong Park and Dagmar Sternad
3. 2023 – 2024 NIH-R03-HD112793: Characterizing muscle activity and gait kinematics for children with cerebral palsy during robot-assisted gait training ($100,000, total direct cost). PI: Se-Woong Park
4. 2023 Simons Foundation Autism Research Initiative (SFARI) Human Cognitive and Behavioral Science, Explorer Track ($500,000 total), Dec 1, 2023 - Nov 30, 2025 Proposal title: Characterizing probabilistic learning in autism through the lens of predictive motor behavior. PIs: Se-Woong Park, Sakiko Oyama, Subcontract PI: Mei-Ling Lin (UT Health SA), Co-I: Leslie Neely
5. 2025-2030 National Science Foundation (NSF) CAREER: Development of Predictive Motor Behavior ($471,473). PI: Se-Woong Park

Grant Writing as a Postdoc

1. 2017 – 2019 NIH-R21-HD089731 ($250,000): Quantification of Predictive Motor Impairments in Individuals with ASD. PIs: Dagmar Sternad and Pawan Sinha. My role: key personnel (postdoc), significantly contributed to writing
2. 2018 – 2022 (NCE) Simons Foundation Autism Research Initiative (SFARI) Explorer Award ($80,000 total): PIs: Dagmar Sternad and Pawan Sinha. Significantly contributed to conception and writing

Teaching Experience

Spring 2025	Motor Learning (KIN 4403), UTSA, class size: 100
	Course evaluations (n=86): Course: 4.3, Teaching: 4.3
	Foundations of Kinesiology (KIN 2303), UTSA, class size: 79
	Course evaluations (n=65): Course: 4.7, Teaching: 4.5
Fall 2024	Foundations of Kinesiology (KIN 2303), UTSA, class size: 132
	Course evaluations (n=115): Course: 4.6, Teaching: 4.6
	Current Trends in Kinesiology (KIN 5003), UTSA, class size: 21
	Course evaluations (n=19): Course: 4.0, Teaching: 4.2
Summer 2024	Motor Development (KIN 6213), UTSA, class size: 22
	Modality Change (face-to-face> online)
	Course evaluations (n=15): Course: 4.3, Teaching: 4.4
Spring 2024	Motor Learning (KIN 4403), UTSA, class size: 125
	Course evaluations (n=96): Course: 4.1, Teaching: 4.1
	Foundations of Kinesiology (KIN 2303), UTSA, class size: 96
	Course evaluations (n=70): Course: 4.6, Teaching: 4.5
Fall 2023	Motor Learning (KIN 4403), UTSA, class size: 120
	Course evaluations (n=100): Course: 4.1, Teaching: 4.1
	Psych. Pers. Motor Learning and Control (KAH 6203), UTSA, class size: 15
	Course evaluations (n=10): Course: 4.7, Teaching: 4.6
Summer 2023	Foundations of Kinesiology (KIN 2303), UTSA, class size: 10
	Course evaluations (n=9): Course: 4.6, Teaching: 4.4
Spring 2023	Motor Learning (KIN 4403), UTSA, class size: 115
	Course evaluations (n=82): Course: 4.1, Teaching: 4.1
	Foundations of Kinesiology (KIN 2303), UTSA, class size: 94
	Course evaluations (n=48): Course: 4.7, Teaching: 4.6
Fall 2022	Motor Learning (KIN 4403), UTSA, class size: 115
	Course evaluations (n=82): Course: 4.4, Teaching: 4.4
	Psych. Pers. Motor Learning and Control (KAH 6203), UTSA, class size: 21

	Modality Change (online hybrid -> face-to-face)
	Course evaluations (n=15): Course: 4.0, Teaching: 3.7
Summer 2022	Motor Development (KAH 6213), UTSA, class size: 9
	Modality Change (online-> face-to-face)
	Course evaluations (n=8): Course: 5.0, Teaching: 4.8
Spring 2022	Motor Learning (KIN 4403), UTSA, class size: 115
	Course evaluations (n=75): Course: 4.4, Teaching: 4.5
	Foundations of Kinesiology (KIN 2303), UTSA, class size: 90
	Modality Change (online -> face-to-face)
	Course evaluations (n=45): Course: 4.4, Teaching: 4.5
Fall 2021	Motor Learning (KIN 4403), UTSA, class size: 172
	Modality Change (online -> face-to-face)
	Course evaluations (n=95): Course: 4.4, Teaching: 4.4
	Psych. Pers. Motor Learning and Control (KAH 6203), UTSA, class size: 27
	First teaching (online hybrid)
	Course evaluations (n=21): Course: 4.6, Teaching: 4.7
Summer 2021	Motor Development (KAH 6213), UTSA, class size: 22
	Modality Change (pandemic -> online hybrid)
	Course evaluations (n=10): Course: 4.9, Teaching: 4.8
Spring 2021	Foundations of Kinesiology (KIN 2303), UTSA, class size: 56
	Modality Change (pandemic -> online)
	Course evaluations (n=32): Course: 4.5, Teaching: 4.5
	Motor Learning (KIN 4403), UTSA, class size: 150
	Course evaluations (n=108): Course: 4.4, Teaching: 4.5
Fall 2020	Motor Learning (KIN 4403), UTSA, class size: 248
	First teaching
	Course evaluations (n=135): Course: 4.4, Teaching: 4.4
Spring 2020	Foundations of Kinesiology (KIN 2303), UTSA, class size: 71
	Modality change (face-to-face-> pandemic)
	No course evaluations due to COVID-19
	Motor Development (KAH 6213), UTSA, class size: 15
	First teaching
	No course evaluations due to COVID-19
Fall 2019	Foundations of Kinesiology (KIN 2303), UTSA, class size: 98
	First teaching
	Course evaluations (n=65): Course: 4.0, Teaching: 3.7

Mentoring

Mentoring as the Chair of MS thesis committee

Mika Garza (Expected to defend in Nov. 2025)
Josue Gonzalez (Defended in Apr. 2025)
Gabby Martinez (Defended in Nov. 2024)
Jesus Siqueiros (Defended in Nov. 2023)
Nicole Gramm (Defended in Apr. 2023)
Remington Angel (Defended in Nov. 2021)

Mentoring as a member of PhD thesis committee

Suzanne Byrne (Expected to defend in Nov. 2025)

Mentoring as a member of MS thesis committee

Brandon Garcia (Expected to defend in Apr. 2026)
Michael Stewart (Defended in Nov. 2022)
Clayton Bilke (Defended in Apr. 2022)
Derek Meier (Defended in Nov. 2021)

Independent Study (Graduate Level)

Mika Garza (Spring 2025, 3 SCH)
    Literature reviews and data collection
Josue Gonzalez (Spring 2024, 3 SCH)
    Programming skills and data collection
Gabby Martinez (Spring 2024, 3 SCH)
    Statistical data analysis
Jesus Siqueiros (Summer 2023, 3 SCH)
    Programming skills and Motor Development
Jesus Siqueiros (Spring 2023, 3 SCH)
    Cardiac, Muscular, and kinematic data collection and analysis
Charles Kenward (Fall 2022, 3 SCH)
    Literature search and research proposal in the area of sports injuries
Nicole Gramm (Spring 2022, 3 SCH)
    Literature review and study design in child rehabilitation and robot-assisted therapy
Remington Angel (Summer 2020, 3 SCH)

Computational Motor Control and Learning (Bimanual Coordination)

Christina Jimenez (Summer 2020, 3 SCH)

Developmental Motor Disorders (Autism and Motor Control)

Independent Study (Undergraduate Level)

Mary Carroll (Spring 2024, 3 SCH)

Conducting experiments on virtual throwing

Andrea Lopez (Spring 2023, 3 SCH)

Collecting data from children with cerebral palsy at CRIT

Malik Burnley (Fall 2022, 3 SCH)

Conducting literature search and review on the predictive impairment in autism hypothesis

Denys Tavares (Spring 2022, 3 SCH)

Collecting data from children with autism, literature search in autism and motor control

Roberto Valadez (Spring 2022, 3 SCH)

Conducting experiments on bimanual motor learning

Research Practicum (Undergraduate Level)

Arianna Reyna (Fall 2025, 3 SCH)

Literature reviews and data collection

Gabriela Guerrero (Fall 2025, 3 SCH)

Literature reviews and data collection

Dominique Du Preez (Spring 2025, 3 SCH)

Literature reviews and data collection

Honors Contract

Kayle Cuellar (Fall 2021)

Motor Learning (KIN 4403) – summarizing articles on sensorimotor differences in autism spectrum disorder

Graduate Research Assistant

Javier Moreno (Fall 2019)

Graduate Research Assistant (19 hrs/wk)

Remington Angel (Spring 2020 – present)

Graduate Research Assistant (19 hrs/wk)

Syiece Bowie (Spring 2020 – Summer 2020)

Graduate Research Assistant (19 hrs/wk)

Clayton Bilke (Fall 2021 – Spring 2022)
Graduate Research Assistant jointly with Dr. Sakiko Oyama (15 hrs/wk)
Jesus Siqueiros (Fall 2022 – Summer 2023)
University Funded Graduate Research Assistant (19 hrs/wk + fringe benefit)
Josue Gonzalez (Spring 2024) – Graduate Research Assistant (19hr/wk)
Mika Garza (Spring and Summer 2025) – Graduate Research Assistant (10hr/wk)
Suzanne Byrne (Spring 2025) – Graduate Research Assistant (10hr/wk)

Undergraduate students in Kinesiology at UTSA

Roberto Torrez (Fall 2025) – Student Volunteer
Hannah Ojuri (Summer 2025) - Student Volunteer
Isabella Pena (Summer 2025) - Student Volunteer
Delaney Turlington (Summer 2025) - Student Volunteer
Megan Choi (Spring 2025) - Student Volunteer
Dominique Du Preez (Summer 2025 - present) – Experiential Learning Program, Reader/Grader
Aileen Campos (Spring 2024 – Spring 2025) – Experiential Learning Program
Michael Vasko (Spring 2024 – present) – Reader/Grader, Peer Mentor, Experiential Learning Program
Amber Hanaway (Fall 2023) - Experiential Learning Program
Paul Gleason (Fall 2023) - Experiential Learning Program
Neil Liu (Spring 2023) – Honors student experiential hours
Amber Valdez (Spring 2023) - Honors student experiential hours
Andrea Lopez (Spring 2023) – Independent Study
Emily Ibarra (Fall 2022) – Student volunteer
Malik Burnley (Summer 2022 – Fall 2023) – Independent Study, Student volunteer
Brittani Figueroa (Summer 2022 – Fall 2023) – Student volunteer
Vivian Pruneda (Summer 2022) - Student researcher jointly with Dr. Sakiko Oyama
Mary Carroll (Summer 2022 – Spring 2025) – Student researcher jointly with Dr. Sakiko Oyama,
Reader/Grader, Recitation Leader, Honors student experience hours
Zachary Ray (Fall 2022) - Recitation Leader
John Long (Fall 2020 – Spring 2021) – Recitation Leader, Currently in a PhD program at Penn State Univ.
Roberto Valadez (Spring 2022 – Fall 2022) – Independent Study, Recitation Leader, Recipient of Provost
Undergraduate Research Fellowship for Summer 2022
Denys Tavares (Spring 2022) – Independent Study
Baylor Cook (Spring 2022 – Summer 2022) – Roadrunner Experiential Learning Program, Currently in PT program at University of Pittsburg

Timothy Smith (Summer 2020 –Fall 2021) – Roadrunner Experiential Learning Program, Currently in PT program at UT Health San Antonio

PhD student at UTSA (co-advising with COEHD faculty):

Suzanne Byrne (Spring 2020 – present)

Master's student in Biology at Northeastern University:

Nick Korsantia (Fall 2013-Summer 2016)

Undergraduate students from Northeastern University:

Leo Byun (Fall 2010-Spring 2011)
Julia Ebert (Fall 2011-Spring 2015), Recipient of Goldwater Fellowship and Marshall fellowship
Julia Cowenhoven (Spring 2014), Recipient of Undergraduate Research Grant
Courtney Stead (Fall 2014-Spring 2015), Recipient of Undergraduate Research Grant
Hannah Tam (Fall 2015-Spring 2019), Recipient of Goldwater Fellowship and Undergraduate Research Grant
Kathleen Owens (Fall 2015-Fall 2016)
Dena Guo (July 2016-Summer 2018)
Lynnsey Martin (Fall 2016 – Spring 2018)
Jeffrey Zhu (Fall 2017-Spring 2019)
Abigail Cahill (Summer 2018 – Summer 2019)
Meredith Young (Fall 2018 – Spring 2019)
Sabrina Bond (Spring 2019- Fall 2021), Recipient of Goldwater Fellowship
Luis Bechara (Spring 2019)

Undergraduate student from MIT:

Charlie Andrews (Fall 2015)
Albert Gerovitch (Spring 2018-Spring 2019)
Annie Abay (Spring 2018)

Professional Services

Editorial Board Member

Scientific Reports

(My roles: reading submitted manuscript, assigning peer reviewers, making editorial decisions)

Guest Editor for Collection – Advances in diagnosis and treatment of movement disorders in children
Scientific Reports

Ad-hoc Reviewer
Journal of Motor Behavior
Journal of Neurophysiology
Scientific Reports
Attention, Perception & Psychophysics
Human Movement Science
iScience
Journal of Autism and Developmental Disorder
Brain Structure and Function
IEEE Open Journal of Engineering in Medicine and Biology
Journal of Developmental and Physical Disabilities
npj Science of Learning
Journal of Motor Learning and Development
Frontiers in Psychology

Conference volunteer
40th Annual Northeast Bioengineering Conference. Apr. 2014, Boston, MA
9th Annual Meeting of the Korean Society for Brain and Neural Sciences. Nov. 2006, Seoul, Korea.

Conference Paper and Abstract Reviewer
The 6th International Conference on Biomedical Engineering and Biotechnology. Oct. 2017, Guangzhou, China.
The 11th International Conference on Biomedical Engineering and Biotechnology. Nov. 2022, ShenZhen, China.
International Society for Autism Research Annual Meeting. May 2023, Stockholm, Sweden.
San Antonio Military Health and Universities Research Forum (SURF) Conference, June 15, 2023, San Antonio, TX

Committee and Task Force

Department
FTT Faculty Mentoring Plan Task Force (Fall 2019)
Executive Committee at the Autism Research Center (Fall 2019 – Spring 2020)
Department Curriculum Committee (Spring 2020)

External Chair Search Task Force (Fall 2020)
External Chair Search Committee (Fall 2020 – Spring 2021)
Department Faculty Advisory Committee (Fall 2021 – Spring 2025)
Academic Plans and Curriculum Committee (Fall 2021 – Summer 2022)
Strategic Plans and Bylaws Committee (Fall 2022 – Spring 2024)
Kinesiology Department Parliamentarian (May 2022 – Sep 2025)
Graduate Program Committee (Fall 2023 – present)
Kinesiology Summer Camp Task Force (Fall 2024 – Spring 2025)
Assistant Professor of Practice Search Committee (Spring 2025)

College
HCaP Dean's Faculty Advisory Council (Fall 2021 – Spring 2024)
HCaP Research Committee (Fall 2025 – present)

University
University Scholarship Committee (Fall 2023 –present)

Community Leadership and Outreach

Director of International Collaboration, the Korean Society for Cognitive Science, 2025-present
My role: Promoting international collaboration between researchers in brain and cognitive science

Faculty Leader at Viva Science San Antonio, the Witte Museum, Apr. 1, 2023, Apr. 20, 2024, and May 3, 2025
My role: Registering a booth, preparing interactive activities, supervising students who interact with museum visitors.

Secretary, Korean Biological Science Faculty Group in San Antonio, Fall 2019 - Spring 2020
My role: Communicating with Korean Life Science faculty in San Antonio in order to organize meetings and seminars. Due to COVID-19, meetings did not take place during the period.

Volunteering weekly outreach at Living Laboratory, the Museum of Science, Boston, MA. Oct. 2017 – May 2018
My role: Designing experiments run at the museum, analyzing data from approx. 400 participants, supervising undergraduate volunteers

Volunteering Unruly Art event, Nov.18, 2016 and Nov. 29, 2017, Joseph Lee K-8 School, Boston, MA
My role: Helping children (4-13-year-old) that needs special care during art class.

Lab demonstration for Driscoll School (Brookline, MA, 2012, 2016 and 2017) and Citizen Schools (Chelsea, MA, 2016)
My role: Explaining and demonstrating EEG experiment to 7-8th grade students

Organizing Haiti Benefit Concert, Apr. 26, 2014, the Fenway Center, Boston, MA, USA
My role: Administrating a benefit concert for Haiti

Missionary trips to Haiti, Dec. 3-10, 2011 and Sep. 1-8, 2012, Cap-Haitien, Haiti
My role: Helping orphans and elderly people who need special assistance, outreaching to families who need food

President, Korean Graduate Student Association, Northeastern University, May 2010 – Apr. 2011
My role: Organizing meetings, maintaining the student organization

Membership

Society for Neuroscience
Society for the Neural Control of Movement
American Physiological Society (Regular Member 2017)
International Society for Autism Research (Regular Member 2019-2023)