

## **BAOTHY P. HUYNH, PhD, OTD, OTR/L**

Department of Occupational Therapy  
MGH Institute of Health Professions  
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### **EDUCATION**

PhD in Rehabilitation Sciences | MGH Institute of Health Professions | June 2025

- Dissertation: *Probing Intracortical Inhibition in Focal Dystonia: Multimodal Investigations Across Laryngeal and Hand Subtypes*
- Advisor: Teresa J. Kimberley, PT, PhD, FAPTA

Doctor of Occupational Therapy | MGH Institute of Health Professions | 2019

Bachelor of Science in Biology, Minor in Psychology | Loyola University Chicago | 2015

### **ACADEMIC APPOINTMENTS**

MGH Institute of Health Professions, Boston, MA

- Assistant Professor, Department of Occupational Therapy | Jan 2026 – Present
- Term Lecturer, Department of Occupational Therapy | Sep 2024 – Dec 2025
- PhD Research Fellow, Department of Rehabilitation Sciences | Sep 2021 – June 2025

### **CERTIFICATIONS AND LICENSURE**

- Occupational Therapy License (Commonwealth of MA) | #13286
- Occupational Therapy Registered | Active, #424411

### **TEACHING ACTIVITIES**

MGH Institute of Health Professions, Boston, MA

- Course Instructor - *Professional Reasoning II: Measurement Theory and Application* – Spring 2026
- Course Instructor - *Health Conditions: Epidemiology and Pathophysiology* – Fall 2024, Fall 2025
- Co-Instructor - *Understanding Transcranial Magnetic Stimulation* – Fall 2023
- Lab Instructor - *Professional Reasoning IV: Integrated Seminar and Synthesis* – Summer 2025, 2024, 2023, 2022, 2021
- Teaching Fellow - *Movement, Context, and Occupational Performance* – Fall 2021
- Graduate Assistant
  - *Splinting, Orthotics, and Prosthetics*, Summer 2021
  - *Rehabilitation Technologies for Stroke*, Spring 2021
  - *Research Process III: Methods and Design*, Spring 2021
  - *Movement, Context, and Occupational Performance*, Fall 2020

- *Professional Reasoning 1: Critical Inquiring and Decision-Making*, Fall 2020

## PEER-REVIEWED PUBLICATIONS

- **Huynh B.P.**, Wang, Y., Kuo, Y.L., Chen, M., Ren, J., Zhang, W., Tiwari, D., Wang, D., Vora, I., Liu, H., Kimberley, T.J. (2025). “Tapping” into neural inhibition in focal hand dystonia: An evaluation of a finger-tapping task using TMS and fMRI. *Journal of Neurology* (In press)
- **Huynh, B.P.**, Marks, K.L., Stepp, C.E., Burns, J., Kimberley, T.J. (2025). Neurophysiological Contributions to Dysphonia: The Role of Cortical Silent Periods in AdLD. *Journal of Voice*. (In Review)
- **Huynh B.P.**, DiCarlo, J., Vora, I., Ranford, J., Gochyyev, P., Lin, D., & Kimberley, T. J. (2023). Sensitivity to change and responsiveness of the upper extremity Fugl-Meyer assessment in individuals with moderate to severe acute stroke. *Neurorehabilitation and Neural Repair*.  
<https://doi.org/10.1177/15459683231186985>
- Wang Y., **Huynh B.P.**, Ren J., Chen M., Zhang W., Hu, D., Li S., Liu H., Kimberley TJ. (2025). Somato-cognitive action network in focal dystonia. *Movement Disorders*. <https://doi.org/10.1002/mds.70021>
- Vora, I., **Huynh, B.P.**, Lin, D.J., Kimberley, T.J. (2025) MEP Status Revisited: Potential Value of the MEP Trichotomy to Distinguish Arm Motor Behavior. *Brain Stimulation*, 18(2), 262–264. <https://doi.org/10.1016/j.brs.2025.02.014>
- Kuo, Y. L., Chen, M., **Huynh, B.P.**, & Kimberley, T. J. (2024). Task-dependency of the cerebellar-motor network in adductor laryngeal dystonia. *Parkinsonism & related disorders*, 125, 107038. <https://doi.org/10.1016/j.parkreldis.2024.107038>
- Wang Y., Vora I., **Huynh B.P.**, Picard-Fraser M., Daneshzand M., Nummenmaa A., Kimberley TJ. (2023) Coils are not created equal: Effects on TMS Thresholding. *Brain Stimulation: Basic, Translational and Clinical Research in Neuromodulation*. 2024;17(1):1-3.doi:10.1016/j.brs.2023.11.017

## PEER-REVIEWED PRESENTATIONS AND POSTERS

- **Huynh B**, Wang Y, Chen M, Kuo YL, Kimberley TJ (2025, February 23-26). “Tapping” into neural inhibition in focal hand dystonia: An evaluation of a finger-tapping task using transcranial magnetic stimulation and functional brain imaging. [Conference Poster]. 6<sup>th</sup> International Brain Stimulation Conference. Kobe, Japan.
- **Huynh B**, Wang Y, Chen M, Narinsky E, Kuo YL, Kimberley TJ (2024, September 27). *Task-Based Functional Imaging in Task-Specific Focal Dystonia during Dystonia-Related and -Unrelated Tasks*. [Conference Poster]. International Parkinson and Movement Disorder Society. Philadelphia, PA.

- Wang Y, Hu D, Chen M, **Huynh B**, Burns J, Liu H, Kimberley TJ (2023, November 11-15). *Preliminary network changes in action-specific focal dystonia using individualized cortical parcellation*. [Conference Poster]. Society for Neuroscience. Washington, DC.
- Vora I, Mckiernan S, **Huynh B**, Kimberley TJ, Lin D. (2023, September 14). *The relationship of corticospinal tract (CST) measures with hand strength and dexterity after acute stroke*. [Conference Poster]. Annual Mass General Neuroscience Day. Boston, MA.
- Wang Y, Hu D, Addison RA, **Huynh B**, Liu H, Kimberley TJ. (2023, June 1-3). *Preliminary functional changes in superior temporal gyrus in task-specific focal dystonia based on individualized parcellations*. 6<sup>th</sup> International Dystonia Symposium [Conference Poster]. Dublin, Ireland.
- **Huynh B**, Chen M, Kimberley TJ, Kuo YL. (2023, June 1-3). *Probing the Inhibitory Motor Circuits in Adductor Laryngeal Dystonia during a Dystonia-Unrelated Finger-Tapping Task*. 6<sup>th</sup> International Dystonia Symposium [Conference Poster]. Dublin, Ireland.
- Vora I, Mckiernan S, **Huynh B**, Hochberg L, Kimberley TJ, Lin D. (2023, March 13-17). *Investigating the relationship between anatomical and physiological measures of the corticospinal tract and upper extremity motor function after acute stroke*. American Society for Neurorehabilitation Annual Meeting [Conference Poster]. Charleston, South Carolina.
- Wang Y, Wartman W, Vora I, Miles A, **Huynh B**, Kimberley TJ. (2023, February 18-22). *Effect of head positioning on TMS intensity: E-field modeling and validation*. 5th International Brain Stimulation Conference [Oral presentation], Lisbon, Portugal.
- **Huynh, B.**, DiCarlo, J., Vora, I., Gochyyev, P., Ranford, J., Lin, D., Kimberley, T. (2022, November). *Sensitivity to change and responsiveness of The Fugl-Meyer Assessment - Upper-Extremity in Individuals with Moderate to Severe Acute Stroke*. Archives of Physical Medicine and Rehabilitation [Conference Poster], 103(12), e83–e84. <https://doi.org/10.1016/j.apmr.2022.08.648>
- Wang, Y., Daneshzand, M., Vora, I., **Huynh, B.**, Ackley, K., Nummenmaa, A., Kimberley, T. (2022, August). *Coil matters for rTMS dosing: A pilot study using E-field modeling* Brain and Human Body Modeling (BHBM) Conference 2022 [Conference Presentation], Boston, MA
- **Huynh, B.**, Lin, D., DiCarlo, J., Gochyyev, P., Ranford, J., Kimberley, T. (2022, March). *Sensitivity to change and responsiveness of the upper-extremity Fugl-Meyer in individuals with acute stroke*. American Society for Neurorehabilitation Annual Meeting [Conference Poster]. St. Louis, Missouri
- **Huynh, B.**, McMahon, L. (2020, February). Making it (Fun)ctional: *Introductions to 3D Printing and Clinical Applications*. Assistive Technology Industry Association (ATIA) Conference [Educational Breakout Session]. Orlando, FL.

- **Huynh B.**, McMahon, L., Dellea, P., Fasoli, S (2020, April). *Development of a 3D Printing Proposal for Boston Children's Hospital Augmentative Communication Program*. American Occupational Therapy Association (AOTA) Conference [Virtual Poster].
- McMahon, L., **Huynh, B.** (2020, April). *Measuring the Effect of Assistive Technology Use on occupational performance and Quality of Life in individuals with ALS*. American Occupational Therapy Association (AOTA) Conference [Virtual technology panel].

## HONORS AND AWARDS

- **American Dissertation Fellowship** | American Association of University Women (AAUW) | 2024-2025
- **Samuel Belzberg 6<sup>th</sup> International Dystonia Symposium Travel Award** | Dystonia Medical Research Foundation (DMRF) and Dystonia Europe (DE) | 2023
- **Stroke ISIG Early Career Poster Award** | American Congress of Rehabilitation Medicine (ACRM) | 2022
- **Dr. David Krebs Doctoral Research Fund Award** | MGH Institute of Health Professions | 2022
- **Award for Student Innovation** | MGH Institute of Health Professions | 2019

## PROFESSIONAL AFFILIATIONS

- American Society for Neurorehabilitation – Member
- American Congress of Rehabilitation Medicine – Member
- American Occupational Therapy Association – Member
- International Parkinson and Movement Disorder Society (MDS) – Junior Member