

Grant Tays, M.S.

Contact

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University of Florida
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Education

University of Florida Gainesville, FL
Ph.D. in Applied Physiology and Kinesiology Expected Graduation May 2024
Adviser: Rachael Seidler, Ph.D.

University of Wisconsin-Milwaukee Milwaukee, WI
Masters of Science in Kinesiology, focus in Neuromechanics Graduated May 2019
Adviser: Jinsung Wang, Ph.D.
Capstone: Consolidation of use-dependent motor memories induced by passive proprioceptive training

University of Wisconsin-Milwaukee Milwaukee, WI
Bachelor of Science in Kinesiology, minor in Psychology Graduated May 2017

Peer Reviewed Publications

Fettrow, T., Hupfeld, K.E., **Tays G.D.**, Clark, D.J. & Seidler, R.D. Brain activity during walking in older adults: Do the patterns follow conceptual models of brain aging? (*In Preparation*)

Tays, G.D., Bao, S., Javidialsaadi, M. & Wang, J. (2020) Consolidation of use-dependent motor memories induced by passive movement. *Neuroscience Letters* 732.

Wang J, Bao S, **Tays G.D.** (2019) Lack of generalization between explicit and implicit visuomotor learning. *PLoS ONE* 14(10).

Funded Grant Applications

Graduate Student Council Travel Grant. 2020. \$350.00.

College of Health and Human Performance Graduate Student Funding. 2019-2023. \$31,000 annually.

College of Health Sciences Student Research Grant Award – Examining the lasting effects of passive proprioceptive training on sensorimotor learning. 2018. \$1,575 total costs.

Support for Undergraduate Research Fellows – Generalizations between explicit and implicit visuomotor learning. 2016. \$ 3,200 total costs.

Applied Grant Applications

National Science Foundation Graduate Research Fellowship Program. 2018.

“Repetitive transcranial magnetic stimulation (rTMS): Neuroplasticity of an internal model across hemispheres in amputated veterans.”

PI: Grant Tays

Skills

MATLAB, R, BASH, SPSS, SPM, ANTS

Open Water SCUBA

Memberships

Neural Control of Movement, 2020 - Present

North Central Florida Society for Neuroscience, 2020 - Present

NIH T32 Movement Disorders Associate Trainee 2019 – Present

Awards

Allen/Holyoak/Varnes Scholarship, University of Florida. 2020. \$2000 total award.

Jane Edmonds Ph.D. Fellowship, University of Florida. 2019. \$6000 total award.

UW Undergraduate Research Grant Award, University of Wisconsin-Milwaukee – Generalizations between explicit and implicit visuomotor learning. 2016. \$500 total award.

Poster Presentations

Tays, G.D., McGregor, H., Lee, J.K., Gadd, N., Kofman, I.S., De Dios, Y.E., Wood, S., Mulder, E., Bloomberg, J.J., Mulavara, A.P., Seidler, R.D. “Does artificial gravity interact with head-down tilt bedrest to have an effect on motor learning?” University of Florida, College of Medicine Poster Day. January 31, 2020. Gainesville, FL, USA.

Tays, G.D., McGregor, H., Lee, J.K., Gadd, N., Kofman, I.S., De Dios, Y.E., Wood, S., Mulder, E., Bloomberg, J.J., Mulavara, A.P., Seidler, R.D. “Does artificial gravity interact with head-down tilt bedrest to have an effect on motor learning?” University of Florida, North Central Florida Society for Neuroscience. January 31, 2020. Gainesville, FL, USA.

Tays, G.D., Javildasaadi, M., Bao, S. & Wang, J. “Consolidation of use-dependent motor memories induced by passive proprioceptive training.” University of Wisconsin-Milwaukee, Health Research Symposium. May 3, 2019. Milwaukee, WI, USA

Tays, G.D., Bao, S. & Wang, J. “The Extent of Overlap between Explicit and Implicit Visuomotor Learning.” Pennsylvania State University, Progress in Clinical Motor Control I: Neurorehabilitation. July 23-25, 2018. State College, PA, USA.

Tays, G.D., Bao, S. & Wang, J. “Lack of Generalization between Explicit and Implicit Visuomotor Learning.” University of Wisconsin-Milwaukee, Health Research Symposium. May 4, 2018. Milwaukee, WI, USA

Accepted Abstracts

Tays, G.D., McGregor, H., Lee, J.K., Gadd, N., Kofman, I.S., De Dios, Y.E., Wood, S., Mulder, E., Bloomberg, J.J., Mulavara, A.P., Seidler, R.D. "Does artificial gravity interact with head-down tilt bedrest to have an effect on motor learning?" Neural Control of Movement. April 27, 2020. (Cancelled due to COVID-19)

Outreach & Teaching Experience

University of Wisconsin-Milwaukee, Department of Biological Science
Graduate Teaching Assistant

Milwaukee, WI
August 2018-January 2019

- Instructed two laboratory sections (n=50) in Anatomy and Physiology
- Developed class material, supervised lab activities, designed and administered weekly quizzes and lab practical's

Work Experience

U.S. Marine Corps
Infantry Anti-Tank Missileman

Camp Pendleton, CA
August 2009 - August 2013

- Served successfully in a leadership position, completing over 50 combat missions in the Afghanistan campaign
- Managed 14 Marines operations and maintained 19 weapons systems totaling \$5.9 million in value
- Awarded the Combat Action Ribbon in Afghanistan, Good Conduct Medal, Certificate and Letter of Appreciation
- Skilled at working without direct supervision and completing complex novel tasks
- Provided guidance to newer Marines and helped them transition into the environment