Heather F. Neyedli

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Citizenship: Canadian

Date Prepared: 21 January 2025

Current Position:
Professor, Kinesiology Division,
School of Health and Human Performance
Faculty of Health, Dalhousie University

Cross Listings:
Department of Industrial Engineering,
Faculty of Engineering, Dalhousie

Department of Psychology and Neuroscience,
Faculty of Science, Dalhousie

School of Physiotherapy,
Faculty of Health, Dalhousie.

Education:
2009-2013
Doctor of Philosophy – Ph.D.
Faculty of Kinesiology and Physical Education
University of Toronto

2007-2009
Masters of Applied Science – M.A.Sc
Department. of Mechanical and Industrial Engineering
University of Toronto

2003-2007
Bachelor of Science Kinesiology (First Class Honours) – BSc.
School of Health and Human Performance
Dalhousie University

Academic/Professional Awards

2019	Faculty of Health Early Career Research Excellence Award
2009-2011	Canadian Graduate Scholarship-Doctorate (NSERC)
2009	Glenn Carter Fellowship

2007-2011	Academic All Canadian Honour Role (Canadian Interuniversity Sport)
2007-2009	Canadian Graduate Scholarship-Masters (NSERC) Defence Research and Development Canada Graduate Scholarship
2007	Beatty Entrance Award (University of Toronto) Canadian Society of Exercise Physiology Science Award University Medal (Dalhousie University)
2006	Undergraduate Student Research Award (NSERC)
2005	Undergraduate Student Research Award (NSERC)
2003-2007	Dalhousie Renewable Entrance Scholarship Dalhousie Dean's List

Employment History

August 2016 – Present

Professor. Kinesiology Division,
School of Health and Human Performance,
Faculty of Health. Dalhousie University.
Principal Investigator: Cognitive and Motor Performance Lab.

Date of Promotion to Associate Professor: July 2019
Date of Tenure: July 2020
Date of Promotion to Full Professor: July 2025

August 2014 – July 2016

Limited Term Appointment, Assistant Professor. Kinesiology Division
School of Health and Human Performance,
Faculty of Health Professions. Dalhousie University.

2014 – 2020

Honorary Clinical Research Associate.
Nuffield Department of Clinical Neurosciences
University of Oxford.

2012- 2014

Marie Curie Post Doctoral Fellow - Plasticity Group
Nuffield Department of Clinical Neurosciences
University of Oxford

Scholarship and Research Activities

Research Grants Received as Principal Investigator

2025 **Neyedli H.F.** (Travel Applicant), Manson G.
Connected Minds Travel Award Program
Human-centered design principles for enhanced trust and engagement in robot-assisted cognitive therapy.
$8985

2024 **Neyedli H.F.** (Principal Investigator), Dithurbide, L.
SSHRC Explore Grant
Impact of Experience and Variability in Sport Performance
$5000

2022 **Neyedli H.F.** (Principal Investigator).
NSERC Discovery Grant
Selection and Planning of Reach to Grasp Actions in the Presence of Competing Action Targets
$165,000

2019 **Neyedli, H.F.** (Principal Investigator), Bardouille, T., Boe, S., Perrot, T., Dechman, G., Eskes, G.
NSHRF Development and Innovative Grant.
Uncovering the mechanisms by which aerobic fitness mitigates stress-induced cognitive decline
$15,000

2018 **Neyedli, H.F.** (Principal Investigator), Bardouille, T., Boe, S., MacKenzie, D., Westwood, D.A.
NSHRF Establishment Grant
Neurofeedback for Stroke Rehabilitation
$150,000

2017 **Neyedli, H.F.** (Principal Investigator)
CFI John R. Evens Leaders Fund
"Brain Gain" – Neuro-Imaging for Health and Mobility in Older Adults
$171,336

Neyedli, H.F. (Principal Investigator), Dithurbide, L.
SSHRC Insight Development Grant
Trust in Human and Automated Teammates
$69,000

Neyedli, H.F. (Principal Investigator), Dithurbide, L.
DRDC Supplement to SSHRC Insight Development Grant
Trust in Human and Automated Teammates
$10,000

Neyedli, H.F. (Co-Principal Investigator), Dithurbide, L.
Faculty of Health Professions Development Grant
Trust in Automated Teammates
$4,947

2016 **Neyedli, H.F.** (Principal Investigator), Westwood, D.A., Rigby, H., DeVos, M.
NSHRF Development and Innovative Grant.
Developing a Neurofeedback-Based Intervention to Reduce Tremor in Essential Tremor
$14,940

Neyedli, H.F. (Principal Investigator)
Faculty of Health Professions Development Grant
Neurofeedback Training Program Development for Stroke Rehabilitation
$4,930

2015 **Neyedli, H.F.** (Principal Investigator)
NSERC Discovery Grant
The Dynamic Processes Underlying Decision-Making Under Time Pressure
$140,000

Research Grants Received as Co-Investigator

2025 Kraeutner S., Karlinsky, A., Manson, G., **Neyedli, H.F.** (Co-Investigator)**,** Welsh, T.,
CIHR – Planning and Dissemination Grant
Developing a framework and translating motor neuroscience techniques to clinical and community practices.
$9940

2024 Trembley, S., **Neyedli, H.F.,** (Co-Investigator – **Lead Dalhousie Investigator**),
NSERC – Alliance
Human-AI Collaboration for Adaptive Command and Control
Matching Funds from DRDC, Thales Group, AI Redefined, PROMPT
$1,370,000

2023 Quigley A, Barrera Machauca M, Eng JJ, Pollock C, Dukelow S, Lamontagne A, **Neyedli H**, Dunlop M, McDonald A, Jones G, Mardlin-Smith F, Marin M.
Brain Canada - Future Leaders in Canadian Brain Research Grant
Walking into a Virtual World: A Pilot Randomized Trial using Virtual Reality and Omnidirectional Treadmill Training for People with Chronic Stroke
$100,000

2022 Dithrubide, L, **Neyedli, H.F.** (Co-Investigator), Young, B,
SSHRC IDG
The impact of technology on learning, training and performance: Implications for coach and athlete interactions
$75,000

2022 Perrot, T., **Neyedli, H.F.** (Co-Investigator), Monroe, C,
MITACS & Lallemand Health Solutions
Investigating the impact of probiotic supplementation on cognition and related health outcomes among video gamers
$60,000

2019 Mahajan, A., **Neyedli, H.F.,** (Co-Investigator – **Lead Dalhousie Investigator**),
Le Ny, J., Trembley, S., Kulic, D., Smith, S., Bachir, T.,
DND – Innovation of Defense Excellence and Security (IDEaS).
Optimized teaming and adaptive interfaces in mixed initiative human automation systems
$1,500,000

2018 Trembley, S., **Neyedli, H.F.,** (Co-Investigator – Lead Dalhousie Investigator),
LaFond, D., Creebolder, J., Hunter. A.
NSERC – Collaborative Research and Development Grants
Matching Funds from DRDC & Thales Group
Cognitive Shadow: capturing judgement policies for real-time decision support
$489,261

2017 Bardouille, T., Boe, S., **Neyedli, H.F.** (Co-Investigator)
NSHRF Development/Innovative Grant
Efficacy of Wireless EEG-Based Neurofeedback to Modulate Brain Activity during Stroke Rehabilitation Therapy: A Pilot Study in Healthy Participants
$15,000

Publications in Refereed Journals

Adria Quigley, Dru Pierson, Juhui Jeong, Youngbin Choi, Mayra Barrera Machuca, Courtney Pollock, Anouk Lamontagne, **Heather F Neyedli**, Alison McDonald, Melanie Dunlop, Tsz Hei Yip, Gregory Jones, Janice J Eng (epub ahead of print). Feasibility and Usability of an Omnidirectional Treadmill-Based Virtual Reality Rehabilitation Game: A Mixed-Methods Feasibility Study, Physical Therapy,

Halliwell, C., Rayner, S., Wilson, J.A., Rutherford, D., Feltmate, B., **Neyedli, H.,** Moyer, R. (epub ahead of print) Inter-limb strength asymmetry and risk of total knee replacement: a survival analysis. *American Journal of Physical Medicine & Rehabilitation*. DOI: 10.1097/PHM.0000000000002775

Murphy, A. L., Sawires, K., Peltekian, S. M., Helwig, M., Macdonald, M., Martin-Misener, R., Saini, B., **Neyedli, H**., Giacomantonio, C., Gardner, D. M. (2024). A scoping review of motor vehicle operator performance assessments for benzodiazepine receptor agonists. *Exploratory Research in Clinical and Social Pharmacy. 16,* e100538. https://doi.org/10.1016/j.rcsop.2024.100538

Rittenberg, B. S. P., Holland, C. W., Barnhart, G. E., Gaudreau, S. M., & **Neyedli, H. F.** (2024). Trust with increasing and decreasing reliability. *Human Factors*, *66*(12), 2569-2589. https://doi.org/10.1177/00187208241228636

Ausman, C., **Neyedli, H. F.,** Briere, M., Stebbe, C., & Moore, S. A. (2023). How Do Recreation Therapists Support People Living with Acquired Brain Injuries Across the Continuum of Care?: A Scoping Review and Narrative Synthesis. *Canadian Journal of Recreation Therapy, 2(1),* 2–41. https://doi.org/10.18666/cjrt-2023-v2-i1-12285

Rittenberg, B. S. P., Barnhart, G. E., **Neyedli, H. F**., Young, B. W., & Dithurbide, L. (2023). Psychosocial factors predicting the usage of technology by golfers. *International Journal of Sports Science and Coaching*, *18*(5), 1649–1657. https://doi.org/10.1177/17479541221148719

Marois, A., Labonte, K., Lafond, D., **Neyedli, H. F**., & Tremblay, S. (2023). Cognitive and Behavioral Impacts of Two Decision-Support Modes for Judgmental Bootstrapping. *Journal of Cognitive Engineering and Decision Making*. 17(3), 215-235 https://doi.org/10.1177/15553434231153311

Knocton, S., Hunter, A., Connors, W., Dithurbide, L., & **Neyedli, H. F.** (2023). The Effect of Informing Participants of the Response Bias of an Automated Target Recognition System on Trust and Reliance Behavior. *Human Factors*. *65*(2), 189-199 https://doi.org/10.1177/00187208211021711

O'Brien, M. W., **Neyedli, H. F.,** Bosquet, L., Leadbetter, B., Smith, A., Gallant, F., … Mekari, S. (2023). Convergent validity and inter-rater reliability of a lower-limb multimodal physical function assessment in community-dwelling older adults. *Frontiers in Aging*, *4*(June), 1–7. https://doi.org/10.3389/fragi.2023.1196389

Mekari, S., Murphy, R. J. L., Mackinnon, A. R. S., Hollohan, Q., Macdougall, S. C., Courish, M. K., Kimmerly, D.,S., **Neyedli, H. F.** (2022). The impact of a short period head down tilt on executive function in younger adults. *Scientific Reports*, 12, 1–8. https://doi.org/10.1038/s41598-022-25123-3

Rittenberg, B. S. P., **Neyedli, H. F.,** Young, B. W., & Dithurbide, L. (2022). The influence of coaching efficacy on trust and usage of technology in golf instruction. *International Journal of Sports Science and Coaching*, *7*(4), 713-721 https://doi.org/10.1177/17479541211061703

Keats, M., Grandy, S., Blanchard, C., Fowles, J., **Neyedli, H.,** Weeks, A., & MacNeil, M. (2022). The Impact of Resistance Exercise on Muscle Mass in Glioblastoma in Survivors (RESIST): Protocol for a Randomized Controlled Trial:, JMIR Research Protocol;11(5): e37709. https://doi.org/10.2196/37709

Friesen, C. L., Lawrence, M., Ingram, T. G. J., Smith, M., Hamilton, E. A., Holland, C. W., **Neyedli, H.F.,** & Boe, S. G. (2022). Portable wireless and fibreless fNIRS headband compares favorably to a stationary headcap-based system. *PLoS ONE*, *17,* 1–13. https://doi.org/10.1371/journal.pone.0269654

Sampaio-Baptista, C., **Neyedli, H.F.,** Sanders, Z-B., Diosi, K., Havard, D., Huang, Y, Anderson, J., Lührs, M., Goebel, R., & Johansen-Berg, H., (2021) Activity-dependent

changes in white-matter structure in the adult human brain with Neurofeedback fMRI**.** *Cell Reports.*

Dithurbide, L., **Neyedli, H. F.,** Swinimer, J., & Macfarlane, J. (2021). Automation Use and Dis-Use in Golf : The Impact of Distance Measuring Devices on Trust in Technology and Confidence in Determining Distance, *12*(July), 1–10. https://doi.org/10.3389/fpsyg.2021.655387

Ambrose, D., Mackenzie, D. E., Ghanouni, P., & **Neyedli, H. F.** (2022). Investigating joint attention in a guided interaction between a child with ASD and therapists : A pilot eye-tracking study. *British Journal of Occupational Therapy*. 84(10), 637-646 https://doi.org/10.1177/0308022620963727

Sinno, J., Doria, N., Cochkanoff, N., Numer, M., **Neyedli, H.,** & Tan, D. (2021). Attitudes and practices of a sample of nova scotian physicians for the implementation of hiv pre-exposure prophylaxis. *HIV/AIDS - Research and Palliative Care*, *13*, 157–170. https://doi.org/10.2147/HIV.S287201

Mekari, S., **Neyedli, H. F.,** Fraser, S., Brien, M. W. O., Martins, R., Evans, K., … Dupuy, O. (2020). High-Intensity Interval Training Improves Cognitive Flexibility in Older Adults. *Brain Sciences*, *10,* 1–12.

Manzone, J. X., Taravati, S., **Neyedli, H. F**., & Welsh, T. N. (2020). Choices in a key press decision-making task are more optimal after gaining both aiming and reward experience. *Quarterly Journal of Experimental Psychology*, *73*(12), 2197–2216062. https://doi.org/10.1177/1747021820940620

LeBlanc, K., Sanderson, C., & **Neyedli, H.F.** (2020). The role of visual error and reward feedback in learning to aim to an optimal movement endpoint. *Journal of Experimental Psychology: Human Perception and Performance. 46(*9), 1001-1012

Cox, E., Sabiston, C. M., Karlinsky, A., Manzone, J., **Neyedli, H**., & Welsh, T. N. (2020). The impact of athletic clothing style and body awareness on motor performance in women. *Psychonomic Bulletin and Review, 27,* 1025-1035

Power, L., **Neyedli, H. F**., Boe, S. G., Bardouille, T. (2020). Efficacy of low-cost wireless neurofeedback to modulate brain activity during motor imagery. *Biomedical Physics & Engineering Express*, *6*, 35024. https://doi.org/10.1088/2057-1976/ab872c

Hommel, B., Chapman, C. S., Cisek, P., **Neyedli, H. F.,** Song, J., & Welsh, T. N. (2019). No one knows what attention is. *Attention, Perception, & Psychophysics*, *81*, 2288–2303.

Mekari, S., Dupuy, O., Martins, R., Evans, K., Kimmerly, D. S., Fraser, S., & **Neyedli, H. F.** (2019). The effects of cardiorespiratory fitness on executive function and prefrontal oxygenation in older adults, *GeroScience, 41*, 681–690.

Alqahtani, S., Joseph, J., Dicianno, B., Layton, N. A., Toro, L., Ferretti, E., Tuakli-Wosornu, Y. T., Chhabra, H., **Neyedli, H.,** Lopes, C. R., Alqahtani, M. M., Van de Vliet, P., Kumagaya, S., Kim, J-B., McKinney, V., Yang, Y-S., Goldberg, M., & Cooper, R. (2019). Stakeholder perspectives on research and development priorities for mobility assistive- technology : a literature review. *Disability and Rehabilitation: Assistive Technology*, *16*(4) 362-376

Swansburg, J. E., & **Neyedli, H. F.** (2019). Symbolic, non-directional predictive cues affect action execution, *81*, 2391–2399.

Dithurbide, L., & **Neyedli, H.** (2019). Trust in Distance Measuring Devices (DMDs) Automation in Golf. *International Journal of Golf Science*, *7*(1), 0–2.

Neyedli, H. F., & LeBlanc, K. A. (2017). The Role of Consistent Context in Rapid Movement Planning: Suboptimal Endpoint Adjustment to Changing Rewards. *Journal of Motor Behavior*, *49*, 1–11.

Stevens, D., & **Neyedli, H.F.,** (2017) Clinical Model of Exertional Dyspnea in Adult Patients With Cystic Fibrosis. *Journal of Cardiopulmonary Rehabilitation and Prevention. 38*, 187-192

Neyedli, H. F., Sampaio-Baptista, C., Kirkman, M. A., Havard, D., Lührs, M., Ramsden, K., Flitney, D.D., Clare, S., Goebel, R., & Johansen-Berg, H. (2017). Increasing Lateralized Motor Activity in Younger and Older Adults Using Real-time fMRI during Executed Movements. *Neuroscience*, 1–10.

Friesen, C. L., Bardouille, T., **Neyedli, H. F.,** & Boe, S. G. (2017). Combined Action Observation and Motor Imagery Neurofeedback for Modulation of Brain Activity. *Frontiers in Human Neuroscience*, *10*, 1–14.

Neyedli, H. F., & Welsh, T. N. (2015). The Preference of Probability over Negative Values in Action Selection. *Quarterly Journal of Experimental Psychology, 68,* 261-283

Neyedli, H. F., & Welsh, T. N. (2015). Experience and Net Worth Affects Optimality in a Motor Decision Task. *Motor Control, 19,* 75-89.

Welsh, T.N., Pacione, S.M., **Neyedli, H.F.,** Ray, M. & Ou, J. (2015). Trajectory deviations in spatial compatibility task with peripheral and central stimuli. *Psychological Research, 79,* 650-657

Neyedli, H. F., & Welsh, T. N. (2014). People are better at maximizing expected gain in a manual aiming task with rapidly changing probabilities than with rapidly changing payoffs. *Journal of Neurophysiology,* 111(5), 1016–26.

Welsh, T. N., **Neyedli, H.,** & Tremblay, L. (2013). Refining the time course of facilitation and inhibition in attention and action. *Neuroscience letters*, 554, 6–10.

Welsh, T. N., Kiernan, D., **Neyedli, H. F.,** Ray, M., Pratt, J., & Weeks, D. J. (2013). On Mechanisms, Methods, and Measures: A Response to Guagnano, Rusconi, and Umiltà. *Journal of Motor Behavior*, 45, 9–14.

Welsh, T. N., Kiernan, D., **Neyedli, H. F.,** Ray, M., Pratt, J., Potruff, A., & Weeks, D. J. (2013). Joint Simon Effects in Extrapersonal Space. *Journal of Motor Behavior*, *45*, 1–5.

Neyedli, H. F., & Welsh, T. N. (2013). Optimal weighting of costs and probabilities in a risky motor decision-making task requires experience. Journal of Experimental Psychology. *Human Perception and Performance, 39(3)*, 638–45.

Neyedli, H.F. & Welsh, T.N. (2012). The processes of facilitation and inhibition in a cue-target paradigm: Insight from movement trajectory deviations. *Acta Psychologica, 139*, 159-165.

Neyedli, H.F., Hollands, J.G. & Jamieson, G.A. (2011). Beyond identity: Incorporating system reliability information into an automated combat identification system. *Human Factors, 53*, 338-355

Book Chapters

Welsh, T.N., Chandrasekharan, S., Ray, M., **Neyedli, H.F.**, Chua, R., and Weeks, D.J. (2012). Perceptual-Motor Interaction: Some Implications for Human–Computer Interaction. In. J. A. Jacko, (Ed.), Human Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications, Third Edition. CRC Press: Boca Raton, USA.

Hollands, J.G. & **Neyedli, H.F.** (2011). A Reliance Model for Automated Combat Identification Systems: Implications for Trust in Automation. In: N. Stanton, (Ed.), Trust in Military Teams. Ashgate: Aldershot, England.

Neyedli, H. F., Wang, L., Jamieson, G. A., & Hollands, J. G. (2009). Evaluating reliance on combat identification systems: The role of reliability feedback. In D. H. Andrews & T. Hull (Eds.), Human factors issues in combat identification. Ashgate: Aldershot, England.

Peer-Reviewed Published Conference Proceedings

Holland, C., & Neyedli, H. F. (2025). The Influence of Performance Feedback on Trust and Self-Confidence in Dynamically Reliable Automation. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*

Holland C., Perry, G., & **Neyedli, H. F**. (2024). Calibrating Trust and Reliance in Variable-Reliability Automation. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*

Chubala, C. M., Hunter, A., Dithurbide, L., & **Neyedli, H. F**. (2024). Assessing Team Performance in Complex Team-Based Command and Control Missions through

Information Sharing and Team Cohesion. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*,

Barnhart, G., Hunter, A., Westwood, D., and **Neyedli, H.F.** (2024) The impact of automated planning aids on situation awareness and workload in the monitoring of uncrewed vehicles, *2024 IEEE 4th International Conference on Human-Machine Systems (ICHMS)*, Toronto, ON, Canada, 2024, pp. 1-6, doi: 10.1109/ICHMS59971.2024.10555824.

Holland, C., Wan, L., Gaudreau, S., **Neyedli, H.F.,** and Pan, Y-J. (2024), Comparative Studies on Navigation Performance using Haptic and Visual Feedback for Teleoperated Vehicles, *2024 IEEE 4th International Conference on Human-Machine Systems (ICHMS)*, Toronto, ON, Canada, 2024, pp. 1-6, doi: 10.1109/ICHMS59971.2024.10555743.

Barnhart, G., Knocton, S., Hunter, A., Dithurbide, L., & **Neyedli, H.** (2023). Interpersonal and Human-Automation Trust in an Underwater Mine Detection Task. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, *67*(1), 145–150. https://doi.org/10.1177/21695067231192560

Chubala, C. M., Hunter, A., Dithurbide, L., & **Neyedli, H. F**. (2023). Building Situation Awareness and Team Cohesion through Effective Information Sharing in a Distributed Team-Based Command and Control Scenario. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, *67*(1). https://doi.org/10.1177/21695067231192866

Labonte, K., Lafond, D., Hunter, A., **Neyedli, H.F.,** Tremblay, S. (2020). Comparing Two Decision Support Modes Using the Cognitive Shadow Online Policy-Capturing System. In Proceedings of the Human Factors and Ergonomics Society – 64th Annual Meeting Santa Monica, CA: Human Factors and Ergonomics Society. (Oct. 2020)

Lafond, D., Labonte, K., Hunter, A., **Neyedli, H.F.,** Tremblay, S. (2019). Judgement Analysis for Real-Time Decision Support Using the Cognitive Shadow Policy-Capturing System. . In: Ahram T., Taiar R., Colson S., Choplin A. (eds) Human Interaction and Emerging Technologies. IHIET 2019. Advances in Intelligent Systems and Computing, vol 1018. Springer, Cham

Neyedli, H.F., Hollands, J.G., & Jamieson, G.A. Human Reliance on an Automated Combat Identification System: Effect of Display Format. In Proceedings of the Human Factors and Ergonomics Society – 53rd Annual Meeting Santa Monica, CA: Human Factors and Ergonomics Society. (Oct. 2009)

Non-refereed Publications and Reports

Technical Reports:

Jamieson, G.A., Wang, L. & **Neyedli, H.F.** (2008) Developing Human-Machine Interfaces to Support Appropriate Trust and Reliance on Automated Combat Identification Systems. DRDC Toronto CR 2008-114

Consulting Reports:

Neyedli, H.F., Goebel, R., Philippon, T., Bellefeuille, P., & Kabanza, F., (2024), A Literature Review for LLM-Based Explainable AI for C2 Systems.
Prepared for DRDC Valcartier

Neyedli, H.F. & Adams, B. (2023) Literature Review on Trust in Autonomous Decision Support Systems for C2.
Prepared for DRDC Valcartier

Neyedli, H.F. (2017) Safety of Station Attendants at YHZ. Phase 2 Report.
Prepared for Air Canada

Neyedli, H.F. & Moreside, J. (2016) Safety of Station Attendants at YHZ. Phase 1 Report.
Prepared for Air Canada

Media:

Neyedli, H.F., Considering the Human Element of Artificial Intelligence. *Ergonomics Canada Magazine*. 2020

Neyedli, H.F. Are you exercising for your brain?. *The Chronicle Herald,* October, 2014

Invited Scholarly Presentations

Invited Speaker: University of Toronto. From the Lab to Competitive Sports – The Impact of Feedback and Technology on Motor Learning and Performance. November 2022

Invited Speaker: Acadia. From Stroke Rehabilitation to Underwater Mine Detection: Considering Human Technology Interaction to Improve Performance. November 2022

Invited Speaker: UBC – Okanagan. Improving Human Technology Interaction. November 2021

Invited Speaker: University of California – Riverside - Balancing Positive and Negative Outcomes in Action Selection and Planning. February 2021

Keynote Speaker: Association of Canadian Ergonomics National Conference - Human Technology Teaming; exploring the relationship – August 2019 Meeting. St John's Newfoundland

Funded Invited Speaker: Time for Action: Reaching for a better understanding of the dynamics of cognition. Special Psychonomics Leading-Edge Workshop –May 2018. Amsterdam, Netherlands

Invited Speaker: University of Manitoba – From Friendly Fire to Stroke Rehabilitation: Improving Human-System Performance. December 2017

Invited Speaker: Institute of Industrial and Systems Engineers – From Friendly Fire to Stroke Rehabilitation: Improving Human-System Performance. January 2017 Meeting. Halifax, Nova Scotia.

Keynote Speaker: Atlantic Association Canadian Ergonomists - Improving Human-System Performance – November 2016 Meeting. Halifax, Nova Scotia.

Peer Reviewed Scholarly Conference Presentations

Feltmate, B., & **Neyedli. H.F**. Are two hands better than one? A follow-up to Davoli & Brockmole's(2012) "shielding" effect. SCAPPS National Conference, Kingson ON, October 2013.

Swansburg, J., & **Neyedli, H.** Planning of actions following predictive and nonpredictive symbolic cues. Neural Control of Movement International Conference, Toyama Prefecture Japan, April 2019.

Neyedli, H., Walsh, A., & LeBlanc, K.. Trajectory deviation in the presence of distractors associated with positive and negative outcomes. Neural Control of Movement International Conference, Toyama Prefecture Japan, April 2019.

Holland, C.W., & **Neyedli, H**. Shocking discoveries: The effect of penalty modality on decision making and movement trajectories. Neural Control of Movement International Conference, Toyama Prefecture Japan, April 2019.

d'Entremont, G., & **Neyedli, H.** Comparing statistical methods for inferring contributions of visual online control from human limb trajectories. SCAPPS National Conference, Toronto ON, October 2018.

Holland, C.W., & **Neyedli, H**. Hit me with your best shock: Differences between cognitive and physical penalties in a decision based reaching task. SCAPPS National Conference, Toronto ON, October 2018.

Sanderson, C., & **Neyedli, H.F.,** Using neurofeedback from motor cortex to reduce tremor in essential tremor. SCAPPS National Conference, Toronto ON, October 2018.

Swansburg, J.E., Chilco, A., Meisner, B.A. & **Neyedli, H.F.** Wise or decrepit? The effects of age-related primes on a manual aiming task. SCAPPS National Conference, Toronto ON, October 2018.

Taravati, S., Manzone, J., **Neyedli, H.** & Welsh, T. "Never tell me the odds" do people emphasize value or probability when choosing between alternatives? SCAPPS National Conference, Toronto ON, October 2018.

Dithurbide, L., MacFarlane, J., & **Neyedli H.,** "That yardage can't be right? ": Trust in golf dmds in non-users. SCAPPS National Conference, Toronto ON, October 2018.

Neyedli, H.F., LeBlanc, K. & Sanderson, C. The role of visual and reinforcement feedback in learning to aim to an optimal movement endpoint. The Probabilistic Brain Workshop, Durham UK, March 2018.

Sanderson, C., LeBlanc, K.A., Holland, C.H. & **Neyedli, H.F.** The Role of Visual Feedback on Reach Kinematics in a Rapid Decision Making Task, SCAPPS National Conference, St. John's NFLD, October, 2017

Swansburg, J.E., D'Entremont, G., & **Neyedli, H.F.** Trajectory Deviations Towards, and Away from Predicted Locations Based on Symbolic Cues in Reaching Tasks. SCAPPS National Conference, St. John's NFLD, October 2017.

Holland, C.H., LeBlanc, K.A., Fraser, C., Beaver, L., & **Neyedli, H.F.** Pay More Attention to the Positives, Your Brain Already Does it Anyways. SCAPPS National Conference, St. John's NFLD, October 2017.

D'Entremont, G., Swansburg, J.E., & **Neyedli, H.F.** Comparing Statistical Methods for Analyzing Human Limb Trajectories of Goal-Directed Movements. SCAPPS National Conference, St. John's NFLD, October 2017.

Neyedli., H.F. & Krautner, S. This Feels Wrong! Movement trajectories differentiate the evolving neural competition during actions election between optimal and non-optimal decisions. Neural Control of Movement, Dublin, May 2017.

LeBlanc, K., & **Neyedli, H.F.** Exploring the role of value-driven attentional capture in a rapid reaching task. Neural Control of Movement, Dublin, May 2017.

LeBlanc, K., & **Neyedli, H.F.** Keep your eyes on the prize: Terminal endpoint feedback is required for participants to learn to aim to an optimal endpoint. SCAPPS, Waterloo ON, October 2016.

LeBlanc, K., & **Neyedli, H.F.** Don't go changing on me: Consistent feedback is necessary for optimal endpoint selection in the context of changing rewards. SCAPPS, Edmonton AB, October 2015.

Huang, Y., **Neyedli, H.F.,** De Vos, M., Debener, S. & Johansen-Berg, H. Using a mobile EEG system for neurofeedback training to enhance hemispheric lateralization in motor execution, Real Time Functional and Neuroimaging Conference, February 2015

Neyedli, H.F., Lührs, M., Sampaio, C., Havard, D., Ramsden, K., Flitney, D., Goebel, R. & Johansen-Berg, H. Neurofeedback of a laterality index from motor cortices during hand movements using real-time fMRI. Human Brain Mapping, Hamburg, June 2014

Welsh, T.N., Pacione, S., & **Neyedli, H.F.** Trajectory deviations in individual and social aiming tasks. Progress in Motor Control IX meeting, Montreal, PQ. July 2013.

Neyedli, H.F. & Welsh, T.N. Hit me with your best shot: Optimal movement planning with constantly changing decision parameters. Visual Science Society International Conference, May 2012

Welsh, T.N. & **Neyedli, H.F..** The time course of facilitation and inhibition in attention and Actions. SCAPPS National Conference, Winnipeg Manitoba, October 2011.

Neyedli, H.F. & Welsh, T.N. Mo' Money Mo' Problems: The Effect Of Practice On Optimal Movement End Point During Rapid Aiming Under Risk. SCAPPS National Conference, Oct. 2011

Neyedli, H.F., Ray, M., Weeks, D., Pratt, J. & Welsh, T.N. "Don't stand so close to me": Joint Simon effects are only observed when participants are in extra-personal space. Joint Action Meeting, July 2011

Neyedli, H.F., Rosenbaum, D.A. & Welsh, T.N. Efficient planning and execution of object grasps: Insights from the end-state comfort effect. NASPSPA Conference, Vermont USA, June. 2011

Neyedli, H. F. & Welsh, T.N. The Effect of Varying Cue-Target Asynchronies on the Inhibition of Reach Trajectories. Psychonomics Conference (Nov. 2010)

Neyedli, H. F. & Welsh, T.N. Reducing Number Of Target Locations Mediates Trajectory Deviation Effects In An IOR Paradigm. SCAPPS National Conference (Oct. 2010)

Neyedli, H. F. & Westwood, D. A. Perceiving Weight: Insight Using a Modified Size-Weight Illusion Paradigm. SCAPPS National Conference (Nov. 2006)

Professional Presentations and Workshops

Dalhousie Engagement Days - The Art of Partnership: Building Research Collaborations Across Sectors. Role: Presenter and Panelist. May 2025

Canadian Society for Psychomotor Learning and Sport Psychology - Strategies for Building Capacity for Equity, Diversity, and Inclusion. Co-Presented with Dr. Sarah Krautner and Dr. Gerome Manson. – October 2021 Conference Symposium

Association of Canadian Ergonomists – Cognitive Ergonomics, Improving Human-System Performance – May 2018 National Webinar.

36 Canadian Brigade Group, 5th Division Influence Activities: Exploiting Mental Shortcuts. – November 2017.

Canadian Forces Maritime Warfare Centre: Reliance on Automation and Decision Making Heuristics. December 2017.

Activities as a Peer Reviewer

2024 Conference Proceeding Review – IEEE
Conference Proceedings Review – Human Factors and Ergonomics Society (3 proceedings reviewed)
Scholarship Review – CIMVHR
External Grant Review – RNS
Manuscript Review – Scientific Reports

2023 External Grant Review – NSERC
Manuscript Review, NeuroImage
Manuscript Review, PLOSONE: Computational Biology

2022 Internal Review CRC, Dalhousie
External Grant Review – NSERC
External Grant Review – MITACS
External Grant Review – NSF
External Grant Review – Research Manitoba
Manuscript Review, Human Brain Mapping
Manuscript Review, Journal Experimental Psychology: Applied
Manuscript Review, PLOSONE: Computational Biology

2021 Manuscript Review, Scientific Reports
Award Review – Young Scientist Award, SCAPPS
External Grant Review - NSF

2020 Manuscript Review, Brain Sciences
Promotion Committee External, University of Manitoba
Tenure & Promotion Committee External, Queens University
Manuscript Review, NeuroImage
Manuscript Review, Neuropsychologica
Manuscript Review, PLOSONE

2019 External Grant Review, NSERC
Manuscript Review, Attention Perception and Psychophysics
Manuscript Review, Journal of Behavioral Decision Making
Manuscript Review, PLOS1
External Grant Review, MITACS

2018 Research Grant Reviewer, Faculty of Health Research and Development Grants (5 Grants Reviewed)
External Grant Review, NSERC (2 Grants Reviewed)

2017 External Grant Review, NSERC (1 Grant Reviewed)
Manuscript Review, Experimental Brain Research

Manuscript Review, Cortex

2016 Manuscript Review: Journal of Experimental Psychology: HPP
Manuscript Review: Cerebral Cortex
Manuscript Review: Experimental Brain Research
Manuscript Review: Journal of Neurophysiology

2014 Manuscript Review: Neuroimage (2 manuscripts)
Manuscript Review: Brain Research
Manuscript Review: Visual Cognition
Manuscript Review: Psychological Bulletin and Review

2013 Manuscript Review: Cognition

Teaching Responsibilities

Courses Taught

KINE4900 – Kinesiology Honours Thesis – 6 Credit Hours
(2017-Present)
School of Health and Human Performance
Average Enrollment: 18 students
Students carry out an independent piece of original research in the respective field of expertise of their supervisor. Students become familiar with the experimental procedures involved in data collection, analysis, literature searches and scientific writing.
FORMAT:

- Lecture
- Independent Study

KINE4301– Ergonomics/Human Factors Internship – 3 Credit Hours
(2024) Co-Taught with Dr. Kathleen MacLean
School of Health and Human Performance
Average Enrollment: 2 students
The Ergonomics/Human Factors Internship is an opportunity for students to develop their applied and professional skills in Kinesiology. Students are eligible for this course if they have a Spring and Summer term Ergonomics/Human Factors Internship Position, either through the Health and Human Performance program or through their own networking and occupational search. While completing their internship, students will concurrently complete a Kinesiology course credit. This course requires periodically meeting with their academic advisor, industrial advisor, completing short written reports on topics relevant to the internship, and submitting a final, formal report on their internship.
FORMAT:

- Lecture
- Independent Study

KINE4577 – Cognitive Ergonomics – 3 Credit Hours
(2014-2022)

School of Health and Human Performance
Range of enrollment: 9-27 students
This course examines the role of cognition in human system performance. The course generally takes an information processing and a systems engineering approach to consider the various topics and related issues. The course requirements include written tests on the content, a project and presentations.
FORMAT:

- Lecture
- Seminar

KINE/LEIS/HPRO 5503 – Intermediate Statistics for the Health Sciences – 3 Credit Hours (2016-2021)
School of Health and Human Performance
Range of Enrollment: 25 students
This course provides graduate students with a working knowledge of statistical issues and methods commonly used by researchers in the Health Professions. The statistical software package SPSS is introduced and used by students throughout the course. Topics covered include a review of probability and one and two sample inferences for means and proportions. This is followed by some common experimental designs, contingency tables and odds ratios. Final topics are correlation and linear regression (simple and multiple), analysis of variance, analysis of covariance, and logistic regression. Evaluations include tests, assignments and a presentation. A term data analysis project is required in which students make use of both statistical methods learned in class and the SPSS software package.
FORMAT:

- Lecture
- Tutorial

KINE4705/5572– Senior Seminar: Advanced Motor Control – 3 Credit Hours (2014-2016) Co-taught with Dr. David Westwood in 2014
School of Health and Human Performance
Average Enrollment: 8 students
Seminar courses allow students to develop a deep appreciation for advanced topics in core areas of Kinesiology. The emphasis is on student-guided learning through critical analysis and discussion. Students will read, present, and discuss current published literature on topics related to control of movement in humans and other related species. Evaluation will focus on the ability to present and organize information, and to engage in meaningful discussion with fellow students about research methodology and findings. A major written assignment will evaluate the ability to synthesize and organize information in the written modality.
FORMAT:

- Seminar

KINE2430– Motor Control and Learning – 3 Credit Hours (2014)
School of Health and Human Performance
Average Enrollment: 100 students
This course deals with efficiency in completing movements to achieve a desired goal. It involves systematic changes in perception of the environment, decisions about what movements to make, as

well as changes in how these movements are carried out. This course covers what is known about these processes as well as how this information can be applied.
FORMAT:

- Lecture
- Lab

KINE/PHYT5590– Measurement and Instrumentation– 3 Credit Hours
(2014) Co-taught with Dr. Janice Moreside, other modules taught by various instructors based on specialty and student interest
School of Health and Human Performance
Average Enrollment: 8 students
The objectives of this course are to provide the student with both a theoretical and practical understanding of the many issues related to instrumentation in Kinesiology. Students will be required to apply the fundamentals of measurement theory to specific instruments. Small experiments will be conducted and students will be required to submit a written report demonstrating their understanding of how particular instruments are used, and how results are interpreted.
FORMAT:

- Lecture
- Lab

HLTH6100XY– Fundamental, Applied, and Translational Aspects of Health Research – 3 Credit Hours
(2018/2019)
Faculty of Health
Enrollment: 11 students
Health research is an exciting multidisciplinary scientific enterprise that encompasses scholarly inquiry across multiple paradigms and that aims to address the many complex factors that shape the health of individuals and populations. The objective of this course is to provide a macro view of the health research field through exploration of methods, skills, and tools as they are applied in funded research programs by diverse practitioners of and leaders in health research. The course is an opportunity to reflect and analyze your own evolving role and goals within health research, with specific application to your thesis research, scholarly interests, and career trajectory.
FORMAT:

- Seminar

KINE/PHYT5590– Measurement and Instrumentation– 2 Week Module
(2014-2019)
School of Health and Human Performance
Average Enrollment: 5 students
The module covers the fundamentals of MRI physics and MRI data processing and analysis. Students will be expected to apply these principles in a tutorial using MRI data. Students will also be expected to critique two journal articles that use MRI methods.
FORMAT:

- Lecture
- Tutorial

Thesis and Dissertation Research Supervision

Present Kathryn Shultz, Post Doctoral Student. Human Automation Teaming for C2

Christine Ausmen, PhD, Health, The role of Therapeutic Recreation in Neurofeedback for Stroke Rehabilitation

Christopher Hollands, PhD, Psychology, Human Factors in Mixed Initiative Systems

Cory Munroe, PhD, Psychology, The Role of Probiotics in Cognitive Functioning and the Stress Response [Co-Supervised]

Seth Daley, PhD, Health, Markerless motion capture for hockey goaltending [Co-Supervised]

Brett Feltmate, MSc, Kinesiology, Go-before-you-know in a reach to grasp task

Sophie Inkpen, MSc, Kinesiology, Impact of a physical activity intervention in individuals with ABI. [Co-Supervised]

Ashton Sheeves, MSc, Kinesiology, Human Automation Teaming for Drone Control

Clair Forbes, Undergraduate Honours, Kinesiology, Evaluating the Effectiveness of a Sprint Training Program for Women's Rugby

Lindsay Noiles, Undergraduate Honours, Medical Sciences, Movement trajectories when reaching and grasping

Anne Larcroix, Undergraduate Honours, Psychology and Neuroscience, Grip aperture in a go-before-you-know task Part 2 [Co-Supervised]

Lilly Ferguson, Undergraduate Honours, Psychology and Neuroscience, Reward based feedback in endpoint adaptation [Co-Supervised]

Kimberly Jacobs, Undergraduate Honours, Kinesiology, Modeling Return to Work Times for Sprains and Strains for the Workers Compensation Board [Co-Supervised]

2024 Anne Doan, Undergraduate Honours, Kinesiology, Interference in forehand grasping

Alex Campbell, Undergraduate Honours, Kinesiology, Interference in backhand grasping

Sierra Gaudreau, Undergraduate Honours, Neuroscience & Biology, Neural correlates of exercise and stress

Lindsay Laviolette, Undergraduate Honours, Medical Sciences, Effect of diet on stress hormone expression

Kissell Phillips, Undergraduate Honours, Kinesiology, Neurofeedback for stroke rehabilitation

Kylie Cole, Undergraduate Research Assistant. Neurofeedback Project

Malcolm Muir, Undergraduate Honours, Kinesiology, Impact on technology in motor learning and self regulated learning in golf

Grace Perry, Undergraduate Honours, Kinesiology, Impact of changing reliability level on trust and reliance on automation.

MeKenna Grant, Honours, Psychology and Neuroscience, Grip aperture in a go-before-you-know task [Co-Supervised]

2023 Grace Barnhart, MSc, Kinesiology, Situation Awareness in Mixed Initiative Systems

Sophie Inkpen, Undergraduate Honours, Medical Sciences, Mediation effect of exercise on stress and cognition

2022 Max Johnson, Undergraduate Honours, Psychology, Differences in Trajectories between Pointing and Grasping

An Brennan, Undergraduate Honours, Neuroscience, Using forced choice trajectories to compare the processing of spatial vs value information

2021 Katelyn Scott, Undergraduate Honours, Kinesiology, Using trajectories to compare the processing of spatial vs value information during action selection

Chloe Devine, Undergraduate Honours, Kinesiology, Using trajectories to examine action choices based on an optimal choice vs the actor's preference

Kyla Malayang , Masters, Kinesiology, Frontal Oxygenation and Stress

Shala Knocton – Masters, Kinesiology, Trust in an Automated Target Recognition System

Christopher Hollands, Masters, Kinesiology: Comparison of a Mobile NIRS system to a Research Grade system for detection upper vs. lower limb movements.

2020 Jennifer Swansburg, Masters, Kinesiology: Effect of Cognition on Movement Trajectories

Victoria Chandler, Undergraduate Honours, Kinesiology, Distractor effects in Reaching vs Grasping

Grace Barnhart, Undergraduate Honours, Kinesiology, Trust in Human and Automated Teammates

Morgan MacIntosh, Undergraduate Honours, Psychology and Neuroscience, Combined Influence of Distractors Associated Positive with Negative Outcomes on Movement Trajectories

Beth Coish, Undergraduate Honours, Therapeutic Recreation, Usability consideration in neurofeedback systems for stroke rehabilitation

2019 Alyssa Walsh, Undergraduate Honours, Kinesiology: Influence of Distractors Associated with Negative Outcomes on Movement Trajectories

Christopher Hollands, Undergraduate Honours, Kinesiology: Comparison of Reaching and Grasping Movements on Movement Trajectories.

Chelsey Sanderson, Masters, Kinesiology: Neurofeedback to Reduce Tremor in Essential Tremor.

Ian Palmer, Undergraduate Honours, Psychology and Neuroscience: Examining Trajectories and Attention during Directed Forgetting. [Co-supervised]

2018: Ghislain d'Entremont, Masters, Kinesiology: Novel Method to Analyze Movement Trajectories Using Gaussian Processes

Lucy MacLeod, Undergraduate Honours, Psychology and Neuroscience: Combining Neurofeedback and Mindfulness Training to Reduce Performance Anxiety in Athletes.

Alyssa Chilco, Undergraduate Honours, Kinesiology: The Effect of Age Stereotype Implicit Primes on Upper Limb Movements in Older and Younger Adults.

2017: Erin Barry, Undergraduate Honours, Kinesiology: Working Memory in Distracted Driving

Jennifer Swansburg, Undergraduate Honours, Kinesiology: Effect of Central Cues on Movement Planning and Selection.

2015: Justin Brooks, Undergraduate Honours Kinesiology: Effect of Blocked & Random Practice on the Learning of Predictive Cues in Response Selection.

Jessica Shannon, Undergraduate Honours Kinesiology: The Effects of Theta Power Neurofeedback Training on Cognitive and Motor Outcomes.

2014: Aurélie Gourgeon, Masters Research Project, Clinical Neurosciences: Resting-State Connectivity Analysis of Neurofeedback of Motor Cortex in Older Adults, University of Oxford

Matthew Kirkman, Masters, Clinical Neurosciences: Real-time Neurofeedback for Motor Learning using Functional Magnetic Resonance Imaging in Healthy Older Adults [Co-supervised]

Directed Study Supervision

2024/25 Ryan Lupal, Undergraduate Independent Study, Kinesiology, TBD

Kylie Cole, Undergraduate Independent Study, Kinesiology Movement Trajectories to Sequential Targets

2023/24: Ryan MacArthur, Independent Study, Neuroscience & Computer Science. Topics in human movement trajectories.

2022/23: Lindsay Laviolette, Independent Study, Medical Sciences, Impact of lack of reward feedback on optimal endpoint selection

Sierra Gaudreau, Independent Study, Neuroscience & Biology, Haptic feedback for remote autonomous vehicle control

Anne Doan, Independent Study, Kinesiology, Topics in motion capture technology

Alex Campbell, Independent Study, Kinesiology, Topics in motion capture technology

Malcolm Muir, Independent Study, Kinesiology, Topics in human automation interaction and data analysis

Grace Perry, Independent Study, Kinesiology, Topics in human automation interaction and data analysis

2021/22: Sophie Inkpen, Independent Study, Movement trajectories in predictable cues

Abdul Osba, Independent Study, Neuroscience, Impact of reduced of reward feedback on optimal endpoint selection

Ben Rittenberg, USRA Placement, Trust Dynamics in Automation supporting a binary decision making task

2020/21: Alexandra Blandford, Independent Study, Situation Awareness in a Navigational Task

Gabrielle Bowman, Independent Study, Impact of Human Bias in Underwater Mine Detection

2018/19: Katrina Cox, Positive and Negative Outcomes in Action Selection.

2017/18: Christopher Hollands, The Effect of Different Punishment Types on Motor Decision Making.

Maya Biderman, Testing of a Neurofeedback Protocol.

Emilie Boudreau, Research in Applied and Theoretical Decision Making.

2016/17: Camille Fraser, Positive and Negative Distractors in Attention Capture

Lindsey Beaver, Attention to Stimuli Previously Associated with Negative Outcomes. KINE 4801

2015/16: William Johnson, Literature Review of Motor Learning Principles Applied to Combat.

2013/14: Katie Ramsden, The Effect of Neurofeedback on Modulating the Activation of the Motor Cortex Using Real-Time fMRI. University of Oxford, Co-Supervised with Heidi Johansen-Berg

Internship Supervision

Note that these students completed a placement in my lab group under my supervision as part of KINE4600, Practicum in Kinesiology

2023/24 – Malcom Muir
2018/19 – Helena Sparavalo
Katrina Cox
2017/18 – Emma Ciprek
2016/17 – Camille Fraser
Daphne Bailliu-Chaloux
2015/16 – Jennifer Swansburg

University of Oxford
2014-15 David Havard, Undergraduate Work Placement, 1-year internship

Thesis/Dissertation/Project Advisor Committee Membership

2020-Present **Connor Stadnyk,** M.Sc thesis, Thesis Advisory Committee, School of Health and Human Performance, Dalhousie University

2019-Present **Theresa Gaughan,** PhD. thesis, Thesis Advisory Committee, School of Physiotherapy, Dalhousie University

2022-Present **Jessica Gibson,** PhD. thesis, Thesis Advisory Committee, School of Physiotherapy, Dalhousie University

2019-Present **Colin McCormick,** PhD. thesis, Thesis Advisory Committee, Psychology and Neuroscience, Dalhousie University

2019-Present **Richard Drake,** PhD. thesis, Thesis Advisory Committee, Psychology and Neuroscience, Dalhousie University

2023-2024 **Juliet Rowe,** M.Sc. Thesis, External Examiner, School of Physiotherapy, Dalhousie University

2023-2024 **Catrina MacPhee.** PhD Comprehensive Exam Supervisor, Department of Psychology and Neuroscience, Dalhousie University

2023-2024 **Fola Akpan,** M.Sc. Thesis, External Examiner, School of Physiotherapy, Dalhousie University

2023-2024 **Summer Fox,** M.Sc. Thesis, External Examiner,
Psychology, Acadia University

2019-2021 **Stephanie Shewchuk,** MSc. thesis, Thesis Advisory Committee,
School of Physiotherapy, Dalhousie University

2020-2022 **Olaide Afolabe Laoye,** M.Sc thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2020-2023 **Hudson Barr,** MSc. thesis, Thesis Advisory Committee,
School of Physiotherapy, Dalhousie University

2019-2023 **Cassidy Klein,** MSc. thesis, Thesis Advisory Committee,
School of Physiotherapy, Dalhousie University

2019-2023 **David Bowman,** MSc. thesis, Thesis Advisory Committee,
School of Physiotherapy, Dalhousie University

2020-2022 **Devan Pacura,** MSc. thesis, Thesis Advisory Committee,
School of Physiotherapy, Dalhousie University

2019-2020 **Andrew Schnare,** M.Sc thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2020-2022 **Alex Peddle.** M.Sc thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2017-2023 **Joseph Manzone.** PhD Thesis, Thesis Advisory Committee
Faculty of Kinesiology and Exercise Science, University of Toronto

2018-2021 **Erik Richards,** M.Sc thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2018-2020 **Jamie Swiminar,** M.Sc thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2017-2021 **Chris Friesen,** Ph.D thesis, Thesis Advisory Committee,
School of Physiotherapy, Dalhousie University

2018-2020 **Theresa Gaughan,** MSc. thesis, Thesis Advisory Committee,
School of Physiotherapy, Dalhousie University

2015-2020 **Sara Brushett** M.A. Thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2017-2019 **David Ambrose** M.Sc. Thesis, Thesis Advisory Committee,
School of Occupational Therapy, Dalhousie University

2017-2018 **Joseph Manzone.** PhD Comprehensive Exam Supervisor,
Faculty of Kinesiology and Exercise Science, University of Toronto

2017-Present **Amy Brandon.** PhD Comprehensive Exam Supervisor,
IDPHD, Dalhousie University

2015-18 **Brogan Baily,** M.Sc. Thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2015-16 **Jessica Wood,** M.Sc. Thesis, Thesis Advisory Committee,
School of Vision Science, Dalhousie University

2015-17 **Jack Solomon,** M.Sc. Thesis, Thesis Advisory Committee,
School of Physiotherapy, Dalhousie University

2015-2019 **Jeff Wilson,** M.A. Thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2015-2019 **Kevin LeBlanc,** PhD Comprehensive Exam Supervisor,
Department of Psychology and Neuroscience, Dalhousie University

2015-17 **Natalie Houser,** M.Sc. Thesis, Thesis Advisory Committee,
School of Health and Human Performance, Dalhousie University

2014-16 **Mallory Coughlin,** M.Sc. Thesis, Thesis Advisory Committee,
School of Vision Science, Dalhousie University

2014-16 **Chris Friesen,** M.Sc. Thesis, Thesis Advisory Committee,
School of Physiotherapy Dalhousie University

2014-16 **Kaila Bishop,** M.Sc. Thesis, Thesis Advisory Committee,
School of Vision Science, Dalhousie University

2014-16 **Sarah Kraeutner.** PhD Comprehensive Exam Supervisor,
Department of Psychology and Neuroscience, Dalhousie University

2014-15 **Ross Story,** M.Sc. Thesis, External Examiner,
School of Physiotherapy, Dalhousie University

Administrative and Service Activities

School-based Service

2023-Present Division Head, Kinesiology

2022-Present Lead, Human Factors Working Group
2021-Present Member, HAHP Research Committee
2018 Member, Rapid Task Force, Kinesiology
2014-Present Member, School Ethics Committee
2014-Present Member, Committee of the Whole
2014-Present Division of Kinesiology Faculty Committee

Faculty-based Service

2024-Present Member, PhD Governance Counsel
2023 Member, PhD Coordinator Search Committee
2016-2025 Member, Research Committee
2017-2018 Member, Faculty Budget Advisory Committee

University-based Service

2019-2024 Health Sciences Research Ethics Board
2021-Present Executive Committee – Brain Repair Center

External Service

2022 – 2024 Executive Committee, Canadian Society for Psychomotor Learning and Sport Psychology
2018 – Present Member: Canadian Institute for Military and Veteran Health Research (CIMVHR) Collage of Reviewers

Professional Activities and Community Service

2023 – Present Heather Neyedli Consulting – Subcontractor for Levio

2016 – 2018 Consulting for Air Canada. Reducing Workplace Injuries at YHZ through Systems-Level Analysis.

2017-Present Head Coach, Bayview Girl's Rugby team
Halifax, Nova Scotia.

Head Coach, Dalhousie University Women's Rugby team.
Halifax, Nova Scotia.

2014-Present Mentor, SUPERNOVA Summer Camps Dalhousie University