

Bradley R. King, Ph.D.

Assistant Professor
 Department of Health and Kinesiology
 College of Health
 University of Utah
 250 S. 1850 East, Salt Lake City, UT, 84112
 Email: bradley.ross.king@utah.edu

EDUCATION

University of Maryland (College Park, MD, USA) Kinesiology Cognitive Motor Neuroscience Program Advisor: Prof. Jane E. Clark	Ph.D.	2011
University of Maryland (College Park, MD, USA) Kinesiology Cognitive Motor Neuroscience Program Advisor: Prof. Jane E. Clark	M.A.	2006
Texas Christian University (Ft. Worth, TX, USA) Kinesiology (Movement Science)	B.S.	2004

PROFESSIONAL EXPERIENCE

Assistant Professor Department of Health and Kinesiology College of Health University of Utah (Salt Lake City, Utah, USA)	2020-present
Postdoctoral Researcher Movement Control and Neuroplasticity Research Group Department of Movement Sciences KU Leuven (Leuven, Belgium) Supervisor: Prof. Stephan Swinnen	2015-20
Postdoctoral Researcher Functional Neuroimaging Unit Department of Psychology University of Montréal (Montréal, Canada) Supervisor: Prof. Julien Doyon	2011-15
Graduate Assistant / Teaching Assistant / Lecturer Cognitive Motor Neuroscience Laboratory Department of Kinesiology University of Maryland (College Park, MD, USA)	2004-11

FUNDING

RESEARCH GRANTS

- | | |
|---|---------|
| <u>Canadian Institutes of Health Research (CIHR) Operating Grant</u>
Doyon J, Albouy G, Benali H, Boutin A, Carrier J, Gabitov E, King BR , Lina J-M, Lungu O
Role: Co-applicant
Title: <i>Characterizing and comparing sleep-related consolidation neurophysiological mechanisms for procedural and declarative memories</i>
Amount: \$1,185,000 CAN | 2020-24 |
| <u>Research Foundation – Flanders (FWO) Research Project</u>
Albouy G, King BR
Role: Co-Principal Investigator
Title: <i>Speeding up the learning process: A multimodal neuroimaging investigation into the acceleration of motor memory consolidation.</i>
Amount: €469,080 | 2019-22 |
| <u>Research Foundation – Flanders (FWO) Research Project</u>
Swinnen SP, Edden RAE, Heise KF, King BR , Leemans A, Leunissen I, Puts N
Role: Co-Principal Investigator
Title: <i>Inhibition and action in the aging brain: Role of GABA in brain function and network interactions.</i>
Amount: €509,000 | 2018-21 |
| <u>Healthy Brains for Healthy Lives (HBHL) Discovery Fund for Interdisciplinary Research (McGill University, Canada)</u>
Doyon J, Zatorre R, Baillet S, Chakravarty M, De Villers Sidani E, Fellows L, Sharp M, Carrier J, Owen A, Albouy G, Albouy P, Coffey E, Grossman N, King BR , Mistic B, Swinnen, S.
Role: Collaborator
Title: <i>Brain plasticity mediating improved memories through online and offline stimulation methods in healthy adults and patients with a chronic neurological condition</i>
Amount: \$1,499,850 CAN | 2018-20 |
| <u>Research Foundation – Flanders (FWO) Bilateral Research Cooperation with Quebec</u>
Albouy G, Carrier J, Doyon J, King BR , Swinnen SP
Role: Co-Principal Investigator
Title: <i>Optimizing motor memory in healthy older adults via feedback controlled non-invasive brain stimulation during sleep: A neuroimaging investigation.</i>
Amount: €224,000 + \$298,900 CAN | 2018-20 |
| <u>KU Leuven Internal Funds - Competition for Small Research Equipment</u>
Orban de Xivry J-J, Moors A, Nieuwboer A., Swinnen S, Feys H, Lemmens R, Verheyden G, Meesen R, Gillebert C, Heremans E, Alaerts K, Mantini D, Boisgontier M, Davare M, Albouy G, King BR
Role: Co-Principal Investigator
Title: <i>Translational upper limb platform (TULiP)</i>
Amount: €87,100 | 2016-18 |

- Research Foundation – Flanders (FWO) Research Grant 2016-17
King BR, Orban de Xivry J-J, Swinnen S
 Role: Principal Investigator
 Title: *Revealing the neural correlates of transcranial direct current stimulation-enhanced motor memory consolidation in older adults.*
 Amount: €40,000
- Canadian Institutes of Health Research (CIHR) Operating Grant 2014-2019
 Doyon J, Albouy G, Benali H, Carrier J, Fogel S, **King BR**
 Role: Co-applicant
 Title: *Sleep and motor learning consolidation and reconsolidation*
 Amount: \$678,035 CAN
- Graduate Research Initiative Project (GRIP) 2010-11
 Department of Kinesiology, University of Maryland
 Role: Principal Investigator
 Title: *The effects of age-related improvements in state estimation on sensorimotor control of arm movements in school-aged children.*
 Amount: \$2,500 US

INDIVIDUAL FELLOWSHIPS

- Research Foundation – Flanders (FWO) Individual Postdoctoral Fellowship 2018-19
 Role: Principal Investigator
 Title: *Boosting motor learning-related neuroplasticity in healthy older adults with non-invasive brain stimulation.*
 Amount: €93,600
- European Commission Marie Skłodowska-Curie Individual Postdoctoral Fellowship 2016-18
 Role: Principal Investigator
 Title: *Effects of non-invasive brain stimulation on motor learning-related neuroplasticity in healthy older adults.*
 Amount: €160,800
- Fonds de Recherche Santé - Québec (FRSQ) Postdoctoral Fellowship 2013-16
 Role: Principal Investigator
 Title: *The influence of sleep and behavioral interference on motor sequence consolidation in older adults: Implications for neurorehabilitation*
 Amount: \$90,000 CAN

PUBLICATIONS IN PEER-REVIEWED JOURNALS

32. Dolfen N, **King BR**, Schwabe L, Gann M, Veldman MP, von Leupoldt A, Swinnen SP, Albouy G (2021). Stress modulates the balance between hippocampal and motor networks during motor memory processing. *Cerebral Cortex*, 31, 2, 1365-82.
31. **King BR**, Rumpf JJ, Heise KF, Veldman MP, Peeters R, Doyon J, Classen J, Albouy G, Swinnen SP (2020). Lateralized effects of post-learning transcranial direct current stimulation on motor memory consolidation in healthy older adults: An fMRI investigation. *Neuroimage*, 223, 117323.
30. **King BR**, Rumpf JJ, Verbaanderd E, Heise KF, Dolfen N, Sunaert S, Doyon J, Classen J, Mantini D, Puts NAJ, Edden RAE, Albouy G, Swinnen SP (2020). Baseline sensorimotor GABA levels shape

- neuroplastic processes induced by motor learning in older adults. *Human Brain Mapping*, *41*, 13, 3680-3695.
29. Monteiro TS, Zivari Adab H, Chalavi S, Gooijers J, **King BR**, Cuypers K, Mantini D, Swinnen SP (2020). Reduced modulation of task-related connectivity mediates age-related declines in bimanual performance. *Cerebral Cortex*, *30*, 8, 4346-60.
28. Levin O, Weerasekera A, **King BR**, Heise KF, Sima DM, Chalavi S, Maes C, Peeters R, Sunaert S, Cuypers K, Van Huffel S, Mantini D, Himmelreich U, Swinnen SP (2019). Sensorimotor cortex neurometabolite levels as correlate of motor performance in normal aging: evidence from a ¹H-MRS study. *Neuroimage*, *202*, 116050.
27. **King BR**, Dolfen N, Gann M, Renard Z, Swinnen SP, Albouy G (2019). Schema and motor-memory consolidation. *Psychological Science*, *30* (7), 963-978.
26. Monteiro TS, **King BR**, Zivari Adab H, Mantini D, Swinnen SP (2019). Age-related changes in network flexibility and segregation at rest and during motor performance. *Neuroimage*, *194*, 93-104.
25. Dolfen N, **King BR**, Schwabe L, Swinnen SP, Albouy G (2019). Glucocorticoid response to stress induction prior to learning modulates subsequent motor memory consolidation. *Neurobiology of Learning & Memory*, *158*, 32-41.
24. Gabitov E, Boutin A, Pinsard B, Censor N, Fogel SM, Albouy G, **King BR**, Benali H, Carrier J, Cohen LG, Karni A, Doyon J (2019). Susceptibility of consolidated procedural memory to interference is independent of its active task-based retrieval. *PLoS One*, *14* (1), e0210876.
23. **King BR**, van Ruitenbeek P, Leunissen I, Cuypers K, Heise K-F, Santos Monteiro T, Hermans L, Levin O, Albouy G, Mantini D, Swinnen SP (2018). Age-related declines in motor performance are associated with decreased segregation of large-scale resting state brain networks. *Cerebral Cortex*, *28* (12), 4390-4402.
22. Hermans L, Levin O, Maes C, van Ruitenbeek P, Heise K-F, Edden RAE, Puts NAJ, Peeters R, **King BR**, Meesen RLJ, Leunissen I, Swinnen SP, Cuypers K (2018). GABA levels and measures of intracortical and interhemispheric excitability in healthy young and older adults: an MRS-TMS study. *Neurobiology of Aging*, *65*, 168-177.
21. Gabitov E, Boutin A, Pinsard B, Censor N, Fogel SM, Albouy G, **King BR**, Benali H, Carrier J, Cohen LG, Karni A, Doyon J (2017). Re-stepping into the same river: Competition problem rather than a reconsolidation failure after an interfering experience in an established motor skill. *Scientific Reports*. *7* (1), 9406
20. Monteiro TS, Beets IAM, Boisgontier MP, Gooijers J, Pauwels L, Chalavi S, **King BR**, Albouy G, Swinnen SP (2017). Relative cortico-subcortical shift in brain activity but preserved training-induced neural modulation in older adults during bimanual motor learning. *Neurobiology of Aging*, *58*, 54-67.
19. **King BR**[#], Hoedlmoser K[#], Hirschauer F, Dolfen N, Albouy G (2017). Sleeping on the motor engram: The multifaceted nature of sleep-related motor memory consolidation. *Neuroscience & Biobehavioral Reviews*, *80*, 1-22.
King BR and Hoedlmoser K were co-first authors
18. Fogel SM, Albouy G, **King BR**, Lungu O, Vien C, Bore A, Pinsard B, Benali H, Carrier J, Doyon J (2017). Reactivation or transformation? Motor memory consolidation associated with cerebral activation time-locked to sleep spindles. *PLoS One*, *12* (4), e0174755.

17. Rumpf JJ, Wegscheider M, Hinselmann K, Fricke C, **King BR**, Weise D, Klann J, Binkofski F, Buccino G, Karni A, Doyon J, Classen J (2017). Enhancement of motor consolidation by post-training transcranial direct current stimulation in older people. *Neurobiology of Aging*, 49, 1-8.
16. Vahdat S, Albouy G, **King BR**, Lungu O, Doyon J (2017). Editorial: Online and offline modulators of motor learning. *Frontiers in Human Neuroscience*, 11, 69.
15. **King BR**, Saucier P, Albouy G, Fogel SM, Rumpf JJ, Klann J, Buccino G, Binkofski F, Classen J, Karni A, Doyon J (2017). Cerebral activation during initial motor learning forecasts subsequent sleep-facilitated memory consolidation in older adults. *Cerebral Cortex*, 27, 1588-1601.
14. Albouy G, **King BR**, Schmidt C, Desseilles M, Dang-Vu T, Balteau E, Phillips C, Degueldre C, Orban P, Benali H, Peigneux P, Luxen A, Karni A, Doyon J, Maquet P, Korman M (2016). Cerebral activity associated with transient sleep-facilitated reduction in motor memory vulnerability to interference. *Scientific Reports*, 6, 34948.
13. Appleman, ER, Albouy G, Doyon J, Cronin-Golomb A, **King BR** (2016). Sleep quality influences subsequent motor skill acquisition. *Behavioral Neuroscience*, 130, 290-97.
12. Dan XJ[#], **King BR**[#], Doyon J, Chan P (2015). Motor sequence learning and consolidation in unilateral *de novo* patients with Parkinson's disease. *PLoS One*, 10(7): e0134291.
[#] **King BR and Dan XY were co-first authors**
11. Albouy G, Fogel SM, **King BR**, Laventure S, Benali H, Karni A, Carrier J, Robertson E, Doyon J (2015). Maintaining vs. enhancing: Respective roles of the striatum and hippocampus in motor sequence memory consolidation. *Neuroimage*, 108, 423-434.
10. Fogel S, Albouy G, Vien C, Popovicci R, **King BR**, Hoge R, Jbabdi S, Benali H, Karni A, Maquet P, Carrier J, Doyon J (2014). fMRI and sleep correlates of the age-related impairment in motor memory consolidation. *Human Brain Mapping*, 35, 3625-3645.
9. **King BR**, Fogel S, Albouy G, Doyon J (2013). Neural correlates of the age-related changes in motor sequence learning and motor adaptation in older adults. *Frontiers in Human Neuroscience*, 7, 142.
8. Albouy G, **King BR**, Maquet P, Doyon J (2013). Hippocampus and striatum: Dynamics and interaction during acquisition and sleep-related motor sequence memory consolidation. *Hippocampus*, 23, 11, 985-1004.
7. **King BR**, Clark JE, Oliveira MA (2012). Developmental delay of finger torque control in children with DCD. *Developmental Medicine and Child Neurology*, 54, 932-937.
6. **King BR**, Oliveira MA, Contreras-Vidal JL, Clark JE (2012). Development of state estimation explains improvements in sensorimotor performance across childhood. *Journal of Neurophysiology*, 107, 3040-3049.
5. **King BR**, Kagerer FA, Haring JR, Contreras-Vidal JL, Clark JE (2011). Multisensory adaptation of spatial-to-motor transformations in children with developmental coordination disorder. *Experimental Brain Research*, 212, 257-265.
4. Rietschel JC, Goodman RN, **King BR**, Lo L-C, Contreras-Vidal JL, Hatfield BD (2011). Cerebral cortical dynamics and the quality of motor behavior during social evaluative challenge. *Psychophysiology*, 48, 479-487.

3. **King BR**, Haring JR, Oliveira, MA, Clark JE (2011). Statistically characterizing intra- and inter-individual variability in children with developmental coordination disorder. *Research in Developmental Disabilities*, 32, 1388-1398.
2. **King BR**, Pangelinan MM, Kagerer FA, Clark JE (2010). Improvements in proprioceptive functioning influence multisensory-motor integration in 7- to 13-year old children. *Neuroscience Letters*, 483, 36-40.
1. **King BR**, Kagerer FA, Contreras-Vidal JL, Clark JE (2009). Evidence for multisensory spatial-to-motor transformations in aiming movements of children. *Journal of Neurophysiology*, 101: 315-322.

Manuscripts under review

Dolfen N, Veldman MP, Gann M, Puts NAJ, Edden RAE, Mikkelsen M, von Leupoldt A, Swinnen SP, Schwabe L, Albouy G, **King BR** (submitted to *PLoS Biology*). A role for GABA in the interaction between striatal and hippocampal systems under stress.

Gann MA, **King BR**, Dolfen N, Veldman MP, Chan KL, Puts NAJ, Edden RAE, Davare M, Swinnen SP, Mantini D, Robertson EM, Albouy G (under review in *Neuroimage*). Hippocampal and striatal responses during motor learning are modulated by prefrontal cortex stimulation.

Veldman MP, Dolfen N, Gann M, Carrier J, **King BR**, Albouy G (under review in *Neuroscience*). Somatosensory targeted memory reactivation modulates oscillatory brain activity but not motor memory consolidation.

Heise KF, Rueda-Delgado L, Chalavi S, **King BR**, Monteiro TS, Edden RAE, Mantini D, Swinnen SP (under review in *eLife*). Healthy aging attenuates the predictive value of endogenous GABA for the interaction between sensorimotor functional connectivity and complex bimanual interaction.

Willms S, Abel M, Karni A, Gal A, Doyon J, **King BR**, Classen J, Rumpf J-J, Buccino G, Pellicano A, Klann J, Binkofski F (under review in *Neuropsychologia*). Motor sequence learning in patients with limb apraxia: Effects of long-term training.

Monteiro TS, **King BR**, Seer C, Mantini D, Swinnen SP (under review in *Human Brain Mapping*). Network-specific differences in transient brain activity at rest are associated with age-related reductions in motor performance.

BOOK CHAPTERS

Doyon J, Albouy G, Vahdat S, **King BR** (2015). Neural correlates of motor skill acquisition and consolidation. In AW Toga (Ed.), *Brain Mapping: An Encyclopedic Reference*.

SELECTED PRESENTATIONS AND CONFERENCE PROCEEDINGS

#**King BR** (2021, February). Multimodal neuroimaging investigations into the modulation of motor learning processes in healthy older adults. University of Maryland – Baltimore (UMB) Physical Therapy and Rehabilitation Sciences Research Seminar. [Invited virtual oral presentation].

#**King BR** (2019, December). Modulating motor learning and memory consolidation in healthy older adults: Insights gained from multimodal neuroimaging investigations. Presented at the Max Planck Institute (MPI), Leipzig, Germany. [Invited oral presentation].

- #King BR** (2019, August). Multimodal neuroimaging investigations into the aging brain and its influence on motor behavior. Presented at the Department of Kinesiology, University of Utah, Salt Lake City, Utah, USA. [Invited oral presentation].
- King BR**, Rumpf JJ, Heise KF, Dolfen N, Puts NAJ, Edden RAE, Doyon J, Classen J, Albouy G, Swinnen SP (2019, June). Effects of motor learning and tDCS on sensorimotor GABA concentrations in older adults. Presented at the Organization of Human Brain Mapping, Rome, Italy. [Poster presentation].
- King BR**, Rumpf JJ, Heise KF, Dolfen N, Puts NAJ, Edden RAE, Doyon J, Classen J, Mantini D, Albouy G, Swinnen SP (2019, May). Role of sensorimotor GABA in motor learning in older adults. Presented at the Annual Meeting of the Belgian Association of Psychological Sciences, Liege, Belgium. [Oral presentation].
- #King BR** (2018, December). Motor behavior and the aging brain: A multimodal neuroimaging investigation. Presented at the Department of Kinesiology, University of Montreal, Montreal, Canada. [Oral presentation].
- #King BR** (2018, May). Modulation of motor learning and memory consolidation in healthy older adults via post-learning brain stimulation and sleep: A neuroimaging investigation. Presented at the Windows into Brain Plasticity Meeting, Brussels, Belgium. [Invited oral presentation].
- ##King BR** (2018, May). Neural correlates supporting the modulation of motor learning and memory consolidation in healthy older adults. Presented at the Neural Control of Movement (NCM) conference, Santa Fe, New Mexico, USA. [Oral presentation].
- King BR**, van Ruitenbeek P, Leunissen I, Cuypers K, Heise K-F, Santos Monteiro T, Hermans L, Levin O, Albouy G, Mantini D, Swinnen SP (2017, November). Age-related decline in motor performance is associated with decreased segregation of large-scale brain networks. Presented at the 47th Society for Neuroscience (SFN) Conference, Washington, DC, USA. [Poster].
- King BR** (2017, June). Minimizing deficits in motor memory consolidation in older adults via transcranial direct current stimulation: Behavioral and neuroimaging investigations. Presented at the 50th North American Society for the Psychology of Sport and Physical Activity (NASPSPA) conference, San Diego, California, USA. [Oral presentation].
- ##King BR** (2016, July). Sleep-facilitated motor memory consolidation in older adults depends on initial encoding. Presented at the 6th International Conference on Memory (ICOM), Budapest, Hungary. [Oral presentation].
- King BR**, Saucier P, Albouy G, Fogel S, Doyon J (2015, September). The influence of sleep/wake states on procedural memory consolidation in older adults depends on performance level during initial learning: A neuroimaging investigation. Presented at the 19th European Society for Cognitive Psychology (ESCoP), Paphos, Cyprus. [Poster].
- King BR**, Saucier P, Albouy G, Fogel S, Doyon J (2014, November). The effects of diurnal and subsequent nocturnal sleep on motor sequence memory consolidation in older adults. Presented at the 44th Society for Neuroscience (SFN) Conference, Washington, DC, USA. [Poster].
- #King BR** (2014, October). Motor sequence learning, aging and movement-related neural disorders. Presented at the Department of Kinesiology, KU Leuven, Leuven, Belgium. [Invited oral presentation].

- #King BR** (2013, July). Facilitating student learning through an active learning teaching approach. Presented at the School of Exercise Science, Physical and Health Education, University of Victoria, Victoria, British Columbia, Canada. [Invited oral presentation].
- #King BR** (2013, January). A mechanistic approach to lifespan motor control and learning. Presented at the Department of Kinesiology, Michigan State University, East Lansing, MI, USA. [Invited oral presentation].
- #King BR** (2011, April). Development of multisensory-motor control in school-age children with and without Developmental Coordination Disorder. Presented at the Kennedy Krieger Institute, Johns Hopkins University, Baltimore, MD, USA. [Invited oral presentation].
- King BR, Harring JR, Oliveira MA, Clark JE** (2010, June). Utilizing random coefficient models to investigate individual behavioral trajectories in school-aged children. Presented at the North American Society for the Psychology of Sport and Physical Activity Conference, Tucson, Arizona, USA. [Oral presentation].
- King BR, Pangelinan MM, Kagerer FA & Clark JE** (2009, October). Evidence for probabilistic multisensory-motor integration in 7- to 11-year-old children. Presented at the 39th Society for Neuroscience Conference, Chicago, Illinois, USA. [Poster].
- King BR, Kagerer FA, Harring JR & Clark JE** (2009, June). Investigating heterogeneity in children with developmental coordination disorder during sensori-motor adaptation: The use of a random coefficient model. Presented at the Developmental Coordination Disorder International Conference, Baltimore, Maryland, USA. [Poster].
- #King BR** (2008, December). Children and sleep: Implications for Learning and Memory. Presented at the Developmental Coordination Disorder Parent Seminar, College Park, MD, USA. [Invited oral presentation].
- King BR, Pangelinan MM, Aluko T, Kagerer FA, Clark, JE** (2008, June). Multisensory-motor integration in arm movements of typically-developing children. Presented at the North American Society for the Psychology of Sport and Physical Activity Conference, Niagara Falls, Ontario, Canada. [Oral presentation].
- King BR, Pangelinan MM, Aluko T, Kagerer FA, Clark, JE** (2007, November). Multisensory-motor integration in arm movements of children. Presented at the Motor Development Research Consortium, Baltimore, MD, USA. [Oral presentation].
- King BR, Kagerer FA, Contreras-Vidal JL, Clark, JE** (2007, August). Multisensory integration during sensorimotor de-adaptation. Presented at the Progress in Motor Control VI Conference, Santos, Brazil. [Poster].
- King BR, Kagerer FA, Clark JE** (2005, August). Adaptation transfer from visuo-motor to auditory-motor space in children. Presented at Progress of Motor Control V, State College, PA, USA. [Poster].
- King BR, Kagerer FA, Clark JE** (2005, June). Crossmodal adaptation in children. Presented at the North American Society for the Psychology of Sport and Physical Activity conference, St. Pete's Beach, Florida, USA. [Oral presentation].
- #Invited presentation / ##Conference symposium invitation**

PROFESSIONAL / ACADEMIC HONORS AND AWARDS

Conference Abroad Travel Grant (€272; Research Foundation – Flanders (FWO))	2016
<i>Broaden your Horizon</i> Travel Grant (€250; Doctoral School of Biomedical Sciences, KU Leuven)	2016
<i>Sleep and Aging: Perks for Longevity</i> symposium poster prize (University of Liege)	2015
Sally J. Phillips PhD Dissertation Fellowship (\$10,000 US; University of Maryland)	2011
Ann G. Wylie PhD Dissertation Fellowship (\$11,000 US; University of Maryland)	2010
James H. Humphrey Graduate Student Published Research Award (\$500 US; University of Maryland)	2009
North American Society for the Psychology of Sport and Physical Activity (NASPSPA) Outstanding Student Paper Award in Motor Development	2008
David H. Clarke Research Assistant Fellowship (University of Maryland)	2006-08
Distinguished Teaching Assistant Award (University of Maryland)	2006
Graduated Magna cum Laude (B.Sc.; Texas Christian University)	2004
Presidential Scholarship (\$14,800 US; Texas Christian University)	2001-04

TEACHING

University of Utah

Primary Instructor for *Current Issues in Cognitive and Motor Neuroscience* 2021

University of Maryland, College Park:

Primary Instructor for *Motor Control and Learning* (Online Course) 2011
 Guest Lecturer for *Motor Development* 2010
 Primary Instructor for *Motor Control and Learning* 2009-10
 Teaching Assistant for *Biomechanics of Human Motion* 2004-06

SUPERVISORY EXPERIENCE

Postdoctoral Fellows

Nina Dolfen (co-promoter); KU Leuven 2020-present
 Judith Nicolas (co-promoter); KU Leuven 2019-present

PhD Students:

Anke van Roy; Health and Kinesiology, University of Utah 2021-present
 Serena Reverberi (co-promoter); Biomedical Sciences; KU Leuven 2019-present
 Nina Dolfen (co-promoter); Biomedical Sciences; KU Leuven 2015-20

Master's Students:

Eva van Meerbeck & Lies Vandenhoudt (joint thesis; co-promoter); Movement Sciences; KU Leuven 2018-20
 Jana Vandecandelaere; Biomedical Sciences; KU Leuven 2018-19
 Elvire Verbaanderd; Movement Sciences; KU Leuven 2017-19
 Zenzi Renard (co-promoter); Biomedical Sciences; KU Leuven 2016-17

Other:

29 research assistants or bachelor students with theses / projects 2007-21

PROFESSIONAL SERVICE

External Funding Evaluation

Expert external evaluator Marie Sklodowska-Curie Individual Postdoctoral Fellowships (European Commission) 2020

Editorial

PLoS One Editorial Board member 2020-present

Topic Editor for Special Issue Research Topic (Online and Offline Modulators of Motor Learning) in *Frontiers in Human Neuroscience* 2015-16

Reviewing

Reviewer for over 20 international journals, including *Cerebral Cortex*, *Neuroimage*, *Human Brain Mapping*, *Psychological Science*, *Neuroscience & Biobehavioral Reviews*, *Neuroscience*, *Journal of Cognitive Neuroscience*, *Scientific Reports*, *Research in Developmental Disabilities*, *PLoS One*, *Physical Therapy*, *Frontiers in Human Neuroscience*, *Neurorehabilitation and Neural Repair*, *Experimental Brain Research*, *Frontiers in Psychology*, *Journal of Motor Behavior*, *Developmental Medicine and Child Neurology*, *Comprehensive Physiology*, *Journal of Sleep Research*, *Behavioural Brain Research*, *Research Quarterly for Exercise & Sport* 2010-present

15th Conference of the International Graphonomics Society (IGS) 2011

DCD VIII: Developmental Coordination Disorder International Conference 2009

Conference Symposia Organization

Organizer and co-chair of symposium entitled “Noninvasive brain stimulation to improve motor performance: Help or hype?” presented at the North American Society for the Psychology of Sport and Physical Activity (NASPSPA) conference 2017

Co-organizer and discussant of symposium entitled “Sleeping on the motor engram: The multifaceted nature of sleep-related motor memory consolidation” presented at the North American Society for the Psychology of Sport and Physical Activity (NASPSPA) conference. 2017

Student Committees

PhD Comprehensive Exam Committee Member
Mindie Clark, Kinesiology, University of Utah 2020

Master’s Theses Jury Member
Alexander Pacolet and Kevin Verhaegen; Movement and Rehabilitation Sciences, KU Leuven 2020

Joke Temmerman; Biomedical Sciences; KU Leuven 2020

Veronika Haagen; Movement and Rehabilitation Sciences; KU Leuven 2019

Lore Vleugels; Movement and Rehabilitation Sciences; KU Leuven 2019

Gianluca Magagna; Kinesiology and Rehabilitation Sciences; KU Leuven 2018

Nestor Ntokos and Ilias Tselios (joint-thesis); Kinesiology and Rehabilitation Sciences; KU Leuven 2018

Jeton Bardhi; Kinesiology and Rehabilitation Sciences; KU Leuven 2017

Arthur van der Have and Vincent Van Houtte (joint-thesis); Kinesiology and Rehabilitation Sciences; KU Leuven 2017

Charissa Jakoemo; Kinesiology and Rehabilitation Sciences; KU Leuven 2016

Emilie De Laere; Biomedical Sciences; KU Leuven 2016

Department / University Committees

Ad hoc member of Admissions Committee; Neuroscience Program; University of Utah 2020-21

Student representative on search committee for Assistant Professor in Epidemiology and Biostatistics; School of Public Health; University of Maryland 2007-08

Public Outreach

Interviewed for article entitled “Stimulating motor skill learning in healthy aging” published on Community Research and Development Information Service (CORDIS) platform organized by the European Commission 2019

Participant Appreciation Day; Hosted by the Movement Control and Neuroplasticity Research Group; KU Leuven 2017

Brain Awareness Week; Organized as part of the Developmental Motor Control Group; University of Maryland, College Park 2011

Developmental Coordination Disorder (DCD) Parent Seminar; Hosted by the Developmental Motor Control Group; University of Maryland, College Park 2006-11

Sports with a Twist (SWAT) Summer Camp for children with developmental motor Disabilities; University of Maryland, College Park 2008-09

Other

Presenter at the Leuven Brain Institute (LBI) Launch; KU Leuven 2018

Presenter at the Marie Sklodowska-Curie Individual Fellowships Master Class; KU Leuven 2016