

Curriculum Vitae

Jörn Diedrichsen

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Western University
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Citizenship: German & British

Education

University of Göttingen, Germany 10/1993 – 12/1998
Diplom. Psychology. Advisor: Steffen Werner, Ph.D.

University of California, Berkeley, California 01/1999 – 06/2003
Ph.D. Psychology / Cognitive Neuroscience. Advisor: Richard B. Ivry, Ph.D.
M.S. Statistics. Advisor: David Brillinger, Ph.D.

Johns Hopkins University, Maryland 07/2003 – 05/2006
Postdoctoral training. Advisor: Reza Shadmehr, Ph.D.

Professional history

Lecturer, School of Psychology, Bangor University 6/2006 – 6/2008

Senior Lecturer, School of Psychology, Bangor University 7/2008 – 9/2009

Senior Lecturer, Institute of Cognitive Neuroscience,
University College London 10/2009 – 8/2012

Reader in Motor Control, Institute of Cognitive Neuroscience
University College London 8/2012 – 8/2015

Western Research Chair, Western Institute of Neuroscience 9/2015-

Full Professor, Department for Computer Science, and Department of Statistical
and Actuarial Sciences, Western University 9/2015-

Prices, Awards and other Honours

Fellowship, German National Scholarship Foundation
(Studienstiftung des deutschen Volkes) 06/1995 – 12/1999

American Psychological Association (APA) Distinguished Scientific Award for Early Career
Contribution to Psychology in the area of Perception & Motor Performance, 2007

Honorary Research Fellow, Donders Institute 2010-2018

Scholar Award for Understanding Human Cognition,
James S McDonnell Foundation 2011-2018

Honorary Principal, Wellcome Trust Centre for Neuroimaging, UCL 2013-2015

Western Research Chair for computational neuroscience, Western University 2015-2025

Faculty of Science Award for Excellence in Undergraduate Teaching 2023

Fallona Family Interdisciplinary Science Award 2023

Grants

Raynor Cerebellum Project, Once upon a time foundation. *Growth charts for the human cerebellum*. USD\$1,000,000 for 3 years. Start date 2024-04-01. Role: Lead PI of collaborative project involving 6 centres.

Canadian Institutes of Health Research. Project Grant. *How does the cerebellum contribute to neocortical processing across functional domains? Using selective recruitment to test the role of the cerebellum in the coordination of mental processes*. \$100,215pa for 5 years. Start date 2024-04-01. Role: PI.

Raynor Cerebellum Project; Once upon a time foundation. Raynor cerebellar initiatives. USD\$60,000 for 1 year. Start date 2023-06-01.

Canadian Institutes of Health Research. Project Grant. *Neural control of Sequential actions. Controlling the present while planning the future*. \$180,000pa for 5 years. Start date 2021-04-01. Role: Joint co-PI with Andrew Pruszynski..

Natural Sciences and Engineering Research Council. Discovery Grant. *A generative approach to human brain mapping*. \$55,000pa for 5 years. Start date 2022-06-01. Role: PI.

Canada First Research Excellence Fund. BrainsCAN Accelerator Program. *State-of-the-art clinical assessment of hand function in stroke and cervical spondylotic myelopathy*. \$82,260 for 2.5 years. Start date 2017-08-01. Role: PI.

Canada First Research Excellence Fund. *BrainsCAN*. \$66M over 8 years. Start date 10/16. Role: Joint Co-PI with 9 other investigators. PI of *Computational Core* within the Grant.

Past Grant support:

Canadian Institutes of Health Research. Project Grant. *Characterizing the functional organization of the human cerebellum and cerebro-cerebellar communication*. \$82,620pa for 5 years. Start date 2018-10-01.

Canada Foundation for Innovation. John R. Evans Leaders Fund. *A computational platform for the discovery of predictive brain dynamics*. \$502,390. Awarded 2019-09.

Natural Sciences and Engineering Research Council. Discovery Grant and Accelerator. *Uncovering the cortical architecture of motor skill*. \$56,000pa for 5 years, accelerator \$40,000pa for 3 years. Start date 9/2016.

James S McDonnell Foundation: 2011 Scholar Award. *How does the brain learn movement? Bridging the gap between behavioral processes and functional imaging signals*. \$600,000 over 6 years. Start date 11/2011.

Wellcome Trust: *Neural representation of timing for skilled movements*. Host Supervisor for the Sir Henry Wellcome Postdoctoral Fellowship awarded to Dr. Katja Kornysheva. Duration 4 years, Start date: 11/2012.

Biotechnology and Biological Sciences Research Council (BBSRC): *Establishing a trans-atlantic partnership for studying the neural networks for motor skill learning in the human brain*. Co-PI (PI: Sven Bestman). Partnering award with Johns Hopkins University. £200,000 over 4 years.

Biotechnology and Biological Science Research Council (BBSRC): *Integrating perception and action: the multi-channel model of visuo-motor control*. Project Grant, Principal Investigator. (Collaborator: Dr. David Franklin, Cambridge). £339.620 over 2.5 years. Start date 4/2012.

Deutsche Forschungs Gemeinschaft (DFG): *Agency assignment in visuomotor control: a dedicated mechanism to attribute visual feedback to motor commands*. Host Supervisor for Postdoctoral Fellowship to Dr. Alexandra Reichenbach, €54,122 over 24 month.

Physiotherapy Research Foundation. Motor Learning after Stroke: *Does speed training and accuracy training generalize to varying demands of reaching a task?* £20600 for 2 years. Co-investigator (PI: John Rothwell).

Initial training network (ITN) under the European Marie-Curie program: *C7: Cerebellar-cortical control: Cells, Circuits, Computation and Clinic*. I am coordinator and lead applicant. The network involves 9 European cerebellar research centers (including Tübingen, Erasmus Rotterdam, Essen, Amsterdam, Antwerp, Ben Gurion, UCL, and Birmingham) and 5 companies. Total budget is €3,942,230 over 4 years, UCL part is €562,663 over 4 years. Start date: 11/2009.

Wellcome Trust: *Learning and recovery of skilled finger movements*. Project Grant, Principal Investigator. £322,724 over 3 years. Start date 3/2012.

National Science Foundation (NSF). *The Cerebellum as a State-Estimator for the Coordination of Skilled action* (BSC 0726685). Start date: 9/07. (Co- Principal Investigator with Dr. Richard Ivry, UC Berkeley). UCL subcontract is USD\$284,733 over 3 yrs.

Biotechnology and Biological Sciences Research Council (BBSRC): *Coordinating movements using Optimal Control: A Neuro-computational Perspective*. (BB/E009174/1). Start date: 6/07. Principal Investigator. £356,000 over 3 yrs.

Welsh Institute of Cognitive Neuroscience (WICN): *Mapping the climbing fibre system in humans: somatosensory activity in microzones of the human cerebellar cortex and the inferior olive*. (WBC027). 7/08-8/09. Principal investigator, Co-PIs are Richard Wise and David McGonigle from Cardiff University. £13,237 for 1 year.

National Institutes of Health (NIH): *Motor Learning and Memory in Health and Disease* (2R56NS037422-09A1). Start date: 9/07-10/10. Co-PI (Principle Investigator is Dr. Reza Shadmehr at Johns Hopkins University). Bangor subcontract is \$9936 for 1 yr.

Editorial Boards

Reviewing Editor for eLife (IF: 7.725) since 09/2018-
Deputy Editor for PLOS Computational Biology (IF: 3.95)	08/2013-04/2019
Member of the Editorial Board for PLOS Computational Biology	since 06/2009-
Member of Editorial Board for Neuroimage	07/2009-08/2012
Full Faculty member of F1000	since 01/2014-
Consulting Editor for Journal of Motor Behavior	since 08/2007-2010
Co-Editor for Experimental Brain Research	since 02/2008-2011
Guest Editor for Current Opinion in Behavioral Sciences	2017

Publications

166 papers, 14323 citations, h-index: 60 (Source Scopus) -
22369 citations, h-index: 73 (Source Google Scholar) – updated Nov 13, 2024

Preprints

Das, A., Karagiorgis, A., Diedrichsen, J., Stenner, M., Azanon, E. (2024). 'Micro-offline' gains convey no benefit for motor skill learning. *bioRxiv*, 2024.07. 11.602795

Xiang, J., Roussy, M., Corrigan, B., Gulli, R., Luna, R., Mofrad, M., Muller, L., Diedrichsen, J., Schmitz, T., Martinez-Trujillo, J., Mur, M. (2024). Task-specific topographical maps of neural activity in the primate lateral prefrontal cortex. *bioRxiv*

- Ariani, G., Shahbazi, M., Diedrichsen, J. (2023). Cortical areas for planning sequences before and during movement. *bioRxiv*
- Zhi, D., Shahshahani, L., Nettekoven, C., Pinho, A. L., Bzdok, D., & Diedrichsen, J. (2023). A hierarchical Bayesian brain parcellation framework for fusion of functional imaging datasets. *bioRxiv*, 2023.05.24.542121.
- Shahbazi, M., Pruszynski, J., Diedrichsen, J. (2024). Repetition effects reveal the sub-sequence representation of actions. *bioRxiv*, 2024.08.07.607016

2024

- Shahbazi, M.; Ariani, G; Kashefi, M; Pruszynski, A; Diedrichsen, J. (2024). Neural correlates of online action preparation. *Journal of Neuroscience*.
- Gaiser, C., Vliet, R. van der, Boer, A. A. de, Donchin, O., Berthet, P., Devenyi, G. A., Chakravarty, M. M., Diedrichsen, J., Marquand, A. F., Frens, M. A., & Muetzel, R. L. (2024). Large Data on the Small Brain: Population-wide Cerebellar Growth Models of Children and Adolescents. *Nature Communication*. 15(1): 2351.
- Tucciarelli, R; Ejaz, N; Wesselink, D B ; Kolli, V; Hodgetts, C J; Diedrichsen, J; Makin, T. (2024). Does ipsilateral remapping following hand loss impact motor control of the intact hand?. *Journal of Neuroscience*. 44(4): 1-15.
- Shahshahani, L., King, M., Nettekoven, C., Ivry, R., Diedrichsen, J. (2024). Selective recruitment of the cerebellum evidenced by task-dependent gating of inputs. *Elife*, 13
- Wang, Z., Diedrichsen, J., Saltoun, K., Steele, C., Arnold-Anteraper, S., Yeo, B., Schmahmann, J., Bzdok, D. (2024). Structural covariation between cerebellum and neocortex intrinsic structural covariation links cerebellum subregions to the cerebral cortex. *J. Neurophysiol.*, 132(3), 849-869
- Nettekoven, C., Zhi, D., Shahshahani, L., Pinho, A., Saadon-Grosman, N., Buckner, R., Diedrichsen, J. (2024). A hierarchical atlas of the human cerebellum for functional precision mapping. *Nat. Commun.*, 15(1), 8376
- Kashefi, M., Reschechtko, S., Ariani, G., Shahbazi, M., Tan, A., Diedrichsen, J., Pruszynski, J. (2024). Future movement plans interact in sequential arm movements. *Elife*, 13.

2023

- King, M., Shahshahani, L., Ivry, R. B., & Diedrichsen, J. (2023). A task-general connectivity model reveals variation in convergence of cortical inputs to functional regions of the cerebellum. *eLife*, 12.
- Schütt, H. H., Kipnis, A. D., Diedrichsen, J., & Kriegeskorte, N. (2023). Statistical inference on representational geometries. *eLife*, 12.
- Sadnicka, A., Wiestler, T., Butler, K., Altenmüller, E., Edwards, M. J., Ejaz, N., & Diedrichsen, J. (2023). Intact finger representation within primary sensorimotor cortex of musician's dystonia. *Brain: A Journal of Neurology*, 146(4), 1511–1522.
- Saltoun, K., Adolphs, R., Paul, L. K., Sharma, V., Diedrichsen, J., Yeo, B. T. T., & Bzdok, D. (2023). Dissociable brain structural asymmetry patterns reveal unique phenome-wide profiles. *Nature Human Behaviour*, 7(2), 251–268.
- Garzón, B., Helms, G., Olsson, H., Brozzoli, C., Ullén, F., Diedrichsen, J., & Lövdén, M. (2023). Cortical changes during the learning of sequences of simultaneous finger presses. *Imaging Neuroscience*, 1, 1-26.

2022

- Eisen, M. B., Akhmanova, A., Behrens, T. E., Diedrichsen, J., Harper, D. M., Iordanova, M. D., Weigel, D., & Zaidi, M. (2022). Peer review without gatekeeping. *ELife*, 11.
<https://doi.org/10.7554/ELIFE.83889>

- Faber, J., Kügler, D., Bahrami, E., Heinz, L.-S., Timmann, D., Ernst, T. M., Deike-Hofmann, K., Klockgether, T., van de Warrenburg, B., van Gaalen, J., Reetz, K., Romanzetti, S., Oz, G., Joers, J. M., Diedrichsen, J., Reuter, M., Giunti, P., Garcia-Moreno, H., Jacobi, H., ... Krahe, J. (2022). CerebNet: A fast and reliable deep-learning pipeline for detailed cerebellum sub-segmentation. *NeuroImage*, 264, 119703. <https://doi.org/10.1016/J.NEUROIMAGE.2022.119703>
- Wesselink, D., Sanders, Z., Edmondson, L., Dempsey-Jones, H., Kieliba, P., Kikkert, S., Themistocleous, A., Emir, U., Diedrichsen, J., Saal, H., Makin, T. (2020). Malleability of the cortical hand map following a finger nerve block. *Science advances*, 8(16).
- Arbuckle, S., Pruszynski, J., Diedrichsen, J. (2022). Mapping the integration of sensory information across fingers in human sensorimotor cortex. *Journal of Neuroscience*, 42(26).
- Walters, J., King, M., Bissett, P., Ivry, R., Diedrichsen, J., Poldrack, R. (2022). Predicting brain activation maps for arbitrary tasks with cognitive encoding models. *NeuroImage*, 119610
- Zhi, D., King, M., Hernandez, C., Diedrichsen, J. (2022). Evaluating brain parcellations using the distance controlled boundary coefficient. *Human brain mapping*.
- Popp, N., Hernandez-Castillo, C., Gribble, P., Diedrichsen, J. (2022). The role of feedback in the production of skilled finger sequences. *Journal of neurophysiology*, 127(4), 829-839.
- Branscheidt, M., Ejaz, N., Xu, J., Widmer, M., Harran, M., Cort, J., Kitago, T., Celnik, P., Hernandez-Castillo, C., Diedrichsen, J., Luft, A., Krakauer, J. (2022). No evidence for motor-recovery-related cortical connectivity changes after stroke using resting-state fMRI. *Journal of Neurophysiology*, 127(3), 637-650.
- Kerestes, R., Han, S., Balachander, S., Hernandez-Castillo, C., Prince, J., Diedrichsen, J., Harding, I. (2022). A Standardized Pipeline for Examining Human Cerebellar Grey Matter Morphometry using Structural Magnetic Resonance Imaging. *Journal of visualized experiments : JoVE*(180).
- Reichenbach, A., Urgen, B., Apostolakis, S., Michlin, L., Diedrichsen, J. (2022). Factors governing the assignment of visual consequence to the corresponding action. *Journal of neurophysiology*.
- Bashford, L., Kobak, D., Diedrichsen, J., Mehring, C. (2022). Motor skill learning decreases movement variability and increases planning horizon. *Journal of Neurophysiology*.
- Ariani, G., Pruszynski, J., Diedrichsen, J. (2022). Motor planning brings human primary somatosensory cortex into action-specific preparatory states. *eLife*, 11.
- 2021**
- Diedrichsen, J., Berlot, E., Mur, M., Schütt, H., Shahbazi, M., Kriegeskorte, N. (2021). Comparing representational geometries using whitened unbiased-distance-matrix similarity. *Neurons, Behavior, Data and Theory*, 5(3).
- Faber, J., Schaprian, T., Berkan, K., Reetz, K., Fran, M., Rezende, T., Hong, J., Liao, W., Warrenburg, B., Gaalen, J., Durr, A., Mochel, F., Giunti, P., Garcia-Moreno, H., Schoels, L., Hengel, H., Synofzik, M., Bender, B., Oz, G., Joers, J., Vries, J., Kang, J., Timmann-Braun, D., Jacobi, H., Infante, J., Joules, R., Romanzetti, S., Diedrichsen, J., Schmid, M., Wolz, R., Klockgether, T. (2021). Regional Brain and Spinal Cord Volume Loss in Spinocerebellar Ataxia Type 3. *Movement Disorders*, 36(10), 2273-2281.
- Zhang, Z., Zeidman, P., Nelissen, N., Filippini, N., Diedrichsen, J., Bracci, S., Friston, K., Rounis, E. (2021). Neural Correlates of Hand-Object Congruency Effects during Action Planning. *Journal of cognitive neuroscience*, 33(8), 1487-1503.
- Abekawa, N., Gomi, H., Diedrichsen, J. (2021). Gaze control during reaching is flexibly modulated to optimize task outcome. *Journal of Neurophysiology*.
- Berlot, E., Popp, N., Grafton, S., Diedrichsen, J. (2021). Combining repetition suppression and pattern analysis provides new insights into the role of M1 and parietal areas in skilled sequential actions. *The Journal of Neuroscience*.

- Fox, A., Holley, D., Klink, P., Arbuckle, S., Barnes, C., Diedrichsen, J., Kwok, S., Kyle, C., Pruszynski, J., Seidlitz, J., Zhou, X., Poldrack, R., Gorgolewski, K. (2021). Sharing voxelwise neuroimaging results from rhesus monkeys and other species with Neurovault. *NeuroImage*, 225, 117518.
- Ariani, G., Kordjazi, N., Pruszynski, J., Diedrichsen, J. (2021). The Planning Horizon for Movement Sequences. *eneuro*, 8(2), ENEURO.0085-21.2021.

2020

- Arbuckle, S. A., Weiler, J., Kirk, E. A., Rice, C. L., Schieber, M., Pruszynski, J. A., ... Diedrichsen, J. (2020). Structure of Population Activity in Primary Motor Cortex for Single Finger Flexion and Extension. *Journal of Neuroscience*, 40(48), 9210–9223.
- Fox, A. S., Holley, D., Klink, P. C., Arbuckle, S. A., Barnes, C. A., Diedrichsen, J., ... Gorgolewski, K. J. (2021). Sharing voxelwise neuroimaging results from rhesus monkeys and other species with Neurovault. *NeuroImage*, 225, 117518.
- Popp, N. J., Yokoi, A., Gribble, P. L., & Diedrichsen, J. (2020). The effect of instruction on motor skill learning. *Journal of Neurophysiology*, 124(5), 1449-1457
- Sereno, M. I., Diedrichsen, J., Tachrount, M., Testa-Silva, G., D'Arceuil, H., & De Zeeuw, C. (2020). The human cerebellum has almost 80% of the surface area of the neocortex. *Proceedings of the National Academy of Sciences*, 117(32), 19538–19543.
- Berlot, E., Popp, N. J., & Diedrichsen, J. (2020). A critical re-evaluation of fMRI signatures of motor sequence learning. *ELife*, 9.
- Ariani, G., Kwon, Y. H., & Diedrichsen, J. (2020). Repetita iuvant: repetition facilitates online planning of sequential movements. *Journal of Neurophysiology*, 123(5), 1727–1738.
- Hernandez-Castillo, C. R., Maeda, R. S., Pruszynski, J. A., & Diedrichsen, J. (2020). Sensory information from a slipping object elicits a rapid and automatic shoulder response. *Journal of Neurophysiology*, 123(3), 1103–1112.
- Diedrichsen, J. (2020). Representational Models and the feature fallacy. In M. S. Gazzaniga (Ed.), *The Cognitive Neurosciences*.

2019

- Evans, S., Price, C. J., Diedrichsen, J., Gutierrez-Sigut, E., & MacSweeney, M. (2019). Sign and Speech Share Partially Overlapping Conceptual Representations. *Current Biology*, 29(21), 3739-3747.
- Yokoi, A., Diedrichsen, J. (2019). Neural Organization of Hierarchical Motor Sequence Representations in the Human Neocortex. *Neuron*.
- King, M., Hernandez-Castillo, C.R., Poldrack, R. A., Ivry, R., Diedrichsen, J. (2019). Functional Boundaries in the Human Cerebellum revealed by a Multi-Domain Task Battery. *Nature Neuroscience*.
- Diedrichsen, J., King, M., Hernandez-Castillo, C., Sereno, M., & Ivry, R. B. (2019). Universal Transform or Multiple Functionality? Understanding the Contribution of the Human Cerebellum across Task Domains. *Neuron*.
- Kriegeskorte, N., Diedrichsen, J. (2019). Peeling the onion of brain representations. *Annual Review of Neuroscience*.
- Beukma, P., Diedrichsen, J., & Verstynen, T. (2019). Binding during sequence learning does not alter cortical representations of individual actions. *Journal of Neuroscience*.
- Ariani, G., & Diedrichsen, J. (2019). Sequence learning is driven by improvements in motor planning. *Journal of Neurophysiology*, 121(6), 2088-2100.
- Friston, K. J., Diedrichsen, J., Holmes, E., & Zeidman, P. (2019). Variational representational similarity analysis. *NeuroImage*.
- Ejaz, N., Xu, J., Branscheidt, M., Hertler, B., Schambra, H., Widmer, M., ... Diedrichsen, J. (2019). Reply: Further evidence for a non-cortical origin of mirror movements after stroke. *Brain*.
- Xu, J., Branscheidt, M., Schambra, H., Steiner, L., Widmer, M., ... Celnik, P. A. (2019). Rethinking interhemispheric imbalance as a target for stroke neurorehabilitation. *Annals of Neurology*.

- Wesselink, D. B., van den Heiligenberg, F. M., Ejaz, N., Dempsey-Jones, H., Cardinali, L., Tarall-Jozwiak, A., Diedrichsen, J., Makin, T. R. (2019). Obtaining and maintaining cortical hand representation as evidenced from acquired and congenital handlessness. *ELife*.
- Arbuckle, S. A., Yokoi, A., Pruszynski, J. A., & Diedrichsen, J. (2019). Stability of representational geometry across a wide range of fMRI activity levels. *NeuroImage*, 1;186:155-163.
- Berlot, E., Prichard, G., O'Reilly, J., Ejaz, N., & Diedrichsen, J. (2019). Ipsilateral finger representations in the sensorimotor cortex are driven by active movement processes, not passive sensory input. *Journal of Neurophysiology*, 121(2):418-426.
- Hernandez-Castillo, C.R., Limperopoulos, C., Diedrichsen, J. (2019). A representative template of the neonatal cerebellum. *Neuroimage*, 184, 450-454.

2018

- Moberget, T., Doan, N. T., Alnaes, D., Kaufmann, T., Cordova-Palomera, A., Lagerberg, T. V., . . . Westlye, L. T. (2018). Cerebellar volume and cerebellocerebral structural covariance in schizophrenia: a multisite mega-analysis of 983 patients and 1349 healthy controls. *Mol Psychiatry*, 23(6), 1512-1520. doi:10.1038/mp.2017.106
- Diedrichsen, J., Yokoi, A., & Arbuckle, S. A. (2018). Pattern component modeling: A flexible approach for understanding the representational structure of brain activity patterns. *Neuroimage*, 180(Pt A), 119-133. doi:10.1016/j.neuroimage.2017.08.051
- Yokoi, A., Arbuckle, S. A., & Diedrichsen, J. (2018). The Role of Human Primary Motor Cortex in the Production of Skilled Finger Sequences. *J Neurosci*, 38(6), 1430-1442. doi:10.1523/JNEUROSCI.2798-17.2017
- Ejaz, N., Xu, J., Branscheidt, M., Hertler, B., Schambra, H., Widmer, M., . . . Diedrichsen, J. (2018). Evidence for a subcortical origin of mirror movements after stroke: a longitudinal study. *Brain*. doi:10.1093/brain/awx384
- Gilbert, K. M., Schaeffer, D. J., Zeman, P., Diedrichsen, J., Everling, S., Martinez-Trujillo, J. C., . . . Menon, R. S. (2018). Concentric radiofrequency arrays to increase the statistical power of resting-state maps in monkeys. *Neuroimage*, 178, 287-294. doi:10.1016/j.neuroimage.2018.05.057

2017

- Diedrichsen, J., & Kriegeskorte, N. (2017). Representational models: A common framework for understanding encoding, pattern-component, and representational-similarity analysis. *PLoS Comput Biol*, 13(4), e1005508. doi:10.1371/journal.pcbi.1005508
- Ernst, T. M., Thurling, M., Muller, S., Kahl, F., Maderwald, S., Schlamann, M., . . . Timmann, D. (2017). Modulation of 7 T fMRI Signal in the Cerebellar Cortex and Nuclei During Acquisition, Extinction, and Reacquisition of Conditioned Eyeblink Responses. *Hum Brain Mapp*, 38(8), 3957-3974. doi:10.1002/hbm.23641
- Hagura, N., Haggard, P., & Diedrichsen, J. (2017). Perceptual decisions are biased by the cost to act. *Elife*, 6. doi:10.7554/eLife.18422
- Hammerbeck, U., Yousif, N., Hoad, D., Greenwood, R., Diedrichsen, J., & Rothwell, J. C. (2017). Chronic Stroke Survivors Improve Reaching Accuracy by Reducing Movement Variability at the Trained Movement Speed. *Neurorehabil Neural Repair*, 31(6), 499-508. doi:10.1177/1545968317693112
- Hernandez-Castillo*, C. R., Diedrichsen, J., Aguilar-Castaneda, E., & Iglesias, M. (2017). Decoupling between the hand territory and the default mode network after bilateral arm transplantation: four-year follow-up case study. *Brain Imaging Behav*. doi:10.1007/s11682-017-9683-1
- King*, M., Hernandez-Castillo*, C., & Diedrichsen, J. (2017). Towards a multi-function mapping of the cerebellar cortex. *Brain*, 140(3), 522-524. doi:10.1093/brain/aww348
- Mehler*, D. M. A., Reichenbach*, A., Klein, J., & Diedrichsen, J. (2017). Minimizing endpoint variability through reinforcement learning during reaching movements involving shoulder, elbow and wrist. *PLoS One*, 12(7), e0180803. doi:10.1371/journal.pone.0180803
- Waters*, S., Wiestler*, T., & Diedrichsen, J. (2017). Cooperation not competition: bihemispheric tDCS and fMRI show role for ipsilateral hemisphere in motor learning. *J Neurosci*. doi:10.1523/JNEUROSCI.3414-16.2017

Xu*, J., Ejaz*, N., Hertler, B., Branscheidt, M., Widmer, M., Faria, A. V., . . . Diedrichsen, J. (2017). Separable systems for recovery of finger strength and control after stroke. *J Neurophysiol*, jn 00123 02017. doi:10.1152/jn.00123.2017

Yokoi*, A., Bai*, W., & Diedrichsen, J. (2017). Restricted transfer of learning between unimanual and bimanual finger sequences. *J Neurophysiol*, 117(3), 1043-1051. doi:10.1152/jn.00387.2016

2016

Kriegeskorte, N., & **Diedrichsen, J.** (2016). Inferring brain-computational mechanisms with models of activity measurements. *Proceedings of the Royal Society*.

Walther*, A., Nilli, H., Ejaz*, N., Alink, A., Kriegeskorte, N., **Diedrichsen, J.** (2016). Reliability of dissimilarity measures for multivariate fMRI pattern analysis. *Neuroimage*.

Franklin, D. W., Reichenbach*, A., Franklin, S., & **Diedrichsen, J.** (2015). Temporal evolution of spatial computations for visuomotor control. *Journal of Neuroscience*.

2015

Kasuga, S., Telgen, S., Ushiba, J., Nozaki, D., & **Diedrichsen, J.** (2015). Learning feedback and feedforward control in a mirror-reversed visual environment. *J Neurophysiol*, 114(4), 2187-2193.

Diedrichsen, J., & Zotow*, E. (2015). Surface-Based Display of Volume-Averaged Cerebellar Imaging Data. *PLoS One*, 7, e0133402.

Ejaz*, N., Hamada, M., & **Diedrichsen, J.** (2015). Hand use predicts the structure of representations in sensorimotor cortex. *Nat Neurosci*, 18(7), 1034-1040.

Pruszynski, J. A., & **Diedrichsen, J.** (2015). Neuroscience. Reading the mind to move the body. [Comment]. *Science*, 348(6237), 860-861.

Yousif*, N., Cole, J., Rothwell, J., & **Diedrichsen, J.** (2015). Proprioception in motor learning: lessons from a deafferented subject. *Exp Brain Res*.

Scharnowski, F., Veit, R., Zopf, R., Studer, P., Bock, S., **Diedrichsen, J.**, . . . Weiskopf, N. (2015). Manipulating motor performance and memory through real-time fMRI neurofeedback. *Biol Psychol*, 108, 85-97.

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** shared first authorship

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Supervision and Training

I have trained or am training 15 PhD students, 23 MSc students, 11 Postdoctoral fellows, and 35 undergraduate research assistants. My work is interdisciplinary, with students coming from psychology, neuroscience, computer science, engineering, and statistics. Five of the eight postdoctoral fellows who have completed their work with me are now in permanent academic positions.

Postdoctoral Supervision:

2023-	Marco Emanuele
2021-	Caroline Nettekoven
2021-	Anna Louisa Pinho
2017-2022	Giacomo Ariani: Editor, Nature Human Behavior
2016-2020	Carlos Hernandez-Castillo, Assistant Professor, CRC Tier II, Dalhousie
2012-2016	Naveed Ejaz, Director of scientific development, Mind Maze, Lausanne
2013-2017	Atsushi Yokoi: Principal Investigator, CiNet, Osaka, Japan
2011-2014	Alexandra Reichenbach: Professor, University of Heilbronn, Germany
2010-2017	Katja Kornysheva: Assistant Professor, University of Birmingham. UK
2009-2011	Nada Yousif: Senior Lecturer, University of Hertfordshire, UK
2007-2010	Olivier White: Professor, University of Dijon, France

Graduate Supervision (Doctorate):

2023-	Incé Hussain (University of Western Ontario, Neuroscience)
2020-	Mehrdad Kashefi (University of Western Ontario, Neuroscience)
2019	Jingyu Cui (University of Western Ontario, Statistical and Actuarial Sciences)
2018-2023	Da Zhi (University of Western Ontario, Computer Science)
2018-2023	Ladan Shahshahani (University of Western Ontario, Neuroscience)
2016-2021	Eva Berlot (University of Western Ontario, Neuroscience)
2016-2021	Nicola Popp (University of Western Ontario, Neuroscience)
2016-2021	Spencer Arbuckle (University of Western Ontario, Neuroscience)
2016-2021	Daan Wesselink (Oxford University, Co-Supervisor, Neuroscience)
2014-2018	Svenja Espenhahn (University College London, Co-Supervisor, Neuroscience)
2013-2015	Alexander Walther (Cambridge University, Co-Supervisor, Neuroscience)
2012-2015	Charmaine Rebecca Lyness (University College London, Co-Supervisor)
2010-2014	Sebastian Telgen (University College London, Neuroscience)
2010-2014	Sheena Waters (University College London, Neuroscience)

2008-2012 Tobias Wiestler (University College London, Neuroscience)

Graduate Supervision (Master's Thesis):

2022- Bassel Arafat (University of Western Ontario, Neuroscience)
2021-2023 Linglin Lin (University of Western Ontario, Statistics)
2020-2023 Mahdiyar Shabazi (University of Western Ontario, Neuroscience)
2019-2021 Deepanshu Wadha (University of Western Ontario, Computer Science)
2016-2018 Neda Kordjazi (University of Western Ontario)
2015-2017 Maedbh King (University of Western Ontario)
2016-2017 Philippe Castonguay (University of Western Ontario - Withdrawn)
2014-2015 Emily Thomas (University College London)
2014-2015 Goda Zalalyte (University College London)
2013-2014 Ewa Zotow (University College London)
2013-2014 Ibrahim Fasil (University College London)
2013-2014 Ben Jun (University College London)
2012-2013 Darius Parvin (University College London)
2012-2013 Sotirius Apostolakis (University College London)
2011-2012 Buse Urgan (University College London)
2010-2011 Harry Manley (University College London)
2009-2010 Isobel Williams (University College London)
2008-2009 Anika Sierk (University College London)
2008-2009 Angela Verity (University College London)
2007-2008 Benjamin Frendo (University College London)
2007-2008 Ian O'Sullivan (Bangor University)
2006-2007 Noreen Dowling (Bangor University)
2006-2007 Jonathan Flavell (Bangor University)