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Impact Statistics (May 2023): *h*-index 24 | *i10*-index 30 | Citations: 4900

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TRAINING

1999-2002 Universität Trier, Germany

Diplom-Psychologe (Specialization: Cognitive Psychology)
Thesis Supervisor: Prof. Dr. Rüdiger Pohl & Prof. Dr. Karl-Friedrich Wender

2000-2005 The University of Arizona, Tucson, USA

Ph.D. in Psychology (Specialization: Cognition and Neural Systems)
Thesis Supervisor: Prof. Dr. Lynn Nadel

2004-2006 McGill University, Montréal, Canada

Research Associate/Post-Doc in Behavioural Neuroscience
Supervisor: Prof. Dr. Karim Nader

2006-2007 The University of Arizona, Tucson, USA

Post-Doctoral Training in Clinical Neuroscience
Supervisor: Prof. Dr. Lynn Nadel

2007-2013 McGill University, Montréal, Canada

Post-Doctoral Training in Behavioural Neuroscience
Supervisor: Prof. Dr. Karim Nader

APPOINTMENTS

2013-2016 Lecturer and Chancellor's Fellow

The University of Edinburgh
College of Medicine and Veterinary Science, School of Biomedical Sciences, Centre for Cognitive and Neural Systems

2017-present Research Fellow

The University of Edinburgh, College of Medicine and Veterinary Science, School of Biomedical Sciences

2017-2023 Assistant Professor

McGill University, Department of Psychology | Behavioural Neuroscience

2023-present Associate Professor

McGill University, Department of Psychology | Behavioural Neuroscience

FUNDING HISTORY

2008-2010 \$90,000 DFG Forschungsstipendium (Research Fellowship)

Organization of complex memories in the mammalian brain – testing basic assumptions of prominent systems consolidation theories

2008-2009 \$25,000 McGill Stairs Grant (PI)

Mechanisms Mediating Binding of Memories

2013-2016 \$690,000 Alzheimer's Research UK (Co-I)

Targeting tau to prevent Abeta-mediated synapse degeneration in Alzheimer's disease

2014-2019 \$660,000 Canadian Institutes of Health Research (Co-I)

The neurobiology of forgetting: The role and regulation of GluA2-dependent AMPA receptor endocytosis in constitutive forgetting and memory processing

2014-2016 \$75,000 Wellcome Trust Institutional Strategic Support Fund (PI)

The neurobiology of forgetting: Molecular and cellular correlates of active, time-dependent decay like forgetting of long-term memories in the hippocampus

FUNDING HISTORY (CONTINUED)**2017-2018 \$25,000 McGill Stairs Grant (PI)***The Black Box Effect: Protecting memory in amnesia***2017-2019 \$195,000 Simons Initiative on the Developing Brain (PI)***Prototyping 3E: Developing and Evaluating a System for Efficient Environmental Enrichment***2019-2020 \$25,000 McGill Stairs Grant (PI)***Programmed cell death and everyday forgetting: The role of pro-apoptotic signalling in the active decay of memory***2020-2025 \$220,000 NSERC (PI)***The role of the hippocampus in protecting recently formed memories from interfering sensory stimulation during memory consolidation***2020-2022 \$400,000 Simons Initiative on the Developing Brain (PI)***Prototyping 3E: Developing and Evaluating a System for Efficient Environmental Enrichment***2021 \$12,400 LouLou Foundation (PI)***2020 CDKL5 Forum Junior Fellowship***2021-2026 \$738,000 Canadian Institutes of Health Research (PI)***Molecular mechanisms and functional contributions of long-term memory decay***2021-2023 \$338,000 Canadian Foundation for Innovation – John R. Evans Leader Fund (PI)***Neurobiological Mechanisms and Cognitive Functions of Forgetting***2022-2027 \$826,000 Canadian Institutes of Health Research (Co-I)***Molecular mechanisms that maintain synaptic plasticity critical for long-term memory persistence***RECOGNITIONS****2001 Best Session Poster Annual APA Conference 2001**

Laurance HE, **Hardt O**, Nadel L & Jacobs WJ (2001, September). Stress affects spatiotemporal processing: Support for a model of Traumatic Memory. Poster presented at the APA annual meeting, San Francisco, CA.

2009 Paper Selected Editor's Pick of the Month May 2009

Hardt O, Wang SH & Nader K (2009). Storage or retrieval: the yin and yang of amnesia. *Learn Mem* 16: 224-30.

2009 Paper Selected Best Paper of the Year 2009 in Learning & Behavior

Hardt O, Hupbach A & Nadel L (2009). Factors moderating blocking in human place learning: The role of task instructions. *Learn Behav* 37(1): 42-59.

Faculty Opinions (formerly Faculty of 1000) Recommendations of my papers

[1] Hupbach A, Hardt O, Gomez R & Nadel L (2008). The Dynamics of Memory: Context-Dependent Updating. *Learn Mem* 15(8): 574-79.

[2] Miguez PV, Hardt O, Wu DC, Gamache K, Sacktor TC, Wang YT & Nader K (2010). PKMzeta maintains memories by regulating GluR2-dependent AMPA receptor trafficking. *Nat Neurosci* 13: 630-4.

[3] Miguez PV, Liu L, Archbold G, Einarsson E, Wong J, McKelvey K, Ko SH, Wang YT & **Hardt O** (2016). Blocking synaptic removal of GluA2-containing AMPA receptors prevents the natural forgetting of long-term memories. *J Neurosci* 36(12): 3481-94.

[4] Hardt O & Nadel L (2017). Systems consolidation revisited, but not revised: The promise and limits of optogenetics in the study of memory. *Neurosci Lett* 680:54-59.

PUBLICATIONS [first or senior authorship in bold]

- [1] **Hardt, O.** (2000). Hindsight bias as a function of anchor distance and anchor plausibility. *Unpublished Masters Thesis*, Universität Trier, Trier.
- [2] Pohl, R., Hardt, O., & Eisenhauer, M. (2000). SARA – Ein kognitives Prozessmodell zur Erklärung von Ankereffekt und Rückschaufehler [SARA – A cognitive processing model explaining anchoring effect and hindsight bias]. *Kognitionswissenschaft*, **9**, 77-92.
- [3] Pohl, R., Eisenhauer, M. & **Hardt, O.** (2003). SARA – a cognitive process model to simulate anchoring effect and hindsight bias. *Memory*, **11**, 337-356.
- [4] **Hardt, O.** and Pohl, R. (2003). Hindsight bias as a function of anchor distance and anchor plausibility. *Memory*, **11**, 379-394.
- [5] Nadel, L., & **Hardt, O.** (2004). The Spatial Brain. *Neuropsychology*, **18**(3), 473–476.
- [6] Glisky, EL, Ryan, L, Reminger, S, Hardt, O., Hayes, SM, Hupbach, A. (2004). A case of psychogenic fugue: I understand, aber ich verstehe nichts. *Neuropsychologia*, **42** (8), 1132-47.
- [7] Nader, K., Hardt, O., & Wang, S.-H. (2005). Response to Alberini: right answer, wrong question. *Trends in Neuroscience*, **28**, 346-347.
- [8] **Hardt, O.** (2005). What determines spatial strategy choice in human spatial learning in a computer-analog of the Morris-Water Maze? *Unpublished doctoral dissertation*, The University of Arizona, Tucson.
- [9] Hupbach, A., Melzer, A., & **Hardt, O.** (2006). The mere exposure effect is sensitive to colour information: Evidence for color effects in a perceptual implicit memory test. *Experimental Psychology*, **53**(3), 233-245.
- [10] Hupbach, A., Hardt, O., Bohbot, V., & Nadel, L. (2007). Spatial Reorientation: Effects of Verbal and Spatial Shadowing. *Spatial Cognition & Computation*, **7**(2), 213-226.
- [11] Hupbach, A., Gomez, R., Hardt, O., & Nadel, L. (2007). Updating episodic memories: A special role of spatial context. In S. Vosniadou, D. Kayser, & A. Protopapas (Eds.), *Proceedings of the Second European Cognitive Science Conference*. Taylor & Francis.
- [12] Hupbach, A., Gomez, R., Hardt, O., & Nadel, L. (2007). Reconsolidation of episodic memories: a subtle reminder triggers integration of new information. *Learning & Memory*, **14**(1-2), 47-53.
- [13] Nadel, L. & Hupbach, A., Hardt, O., & Gomez, R. (2008). Episodic Memory: Reconsolidation. In E. Dere, J.P. Huston, A. Easton, & L. Nadel, (Eds) *Episodic memory research*. Elsevier B.V., Oxford, U.K.
- [14] Hupbach, A., Hardt, O., Gomez, R., & Nadel, L. (2008). The Dynamics of Memory: Context-Dependent Updating. *Learning & Memory*, **15**(8), 574-579.
- [15] **Hardt, O.**, & Nadel, L. (2009). Cognitive Maps and Attention. In N. Srinivasan (Vol Ed), *Progress in Brain Research: Vol. 176, Attention*. Amsterdam: Elsevier. 184-191.
- [16] **Hardt, O.**, Wang, S.-H., & Nader, K. (2009). Storage or retrieval: the yin and yang of amnesia. *Learning & Memory*, **16**, 224-230.
- [17] Nader, K., & **Hardt, O.** (2009). A single standard for memory: The case for reconsolidation. *Nature Reviews Neuroscience*, **10**, 224-234.
- [18] **Hardt, O.**, Hupbach, A., & Nadel, L. (2009). Factors moderating blocking in human place learning: The role of task instructions. *Learning & Behavior*, **37**(1), 42-59.
- [19] Nader, K., Hardt, O., & Miguez, P.V. (2010). Consolidation and Reconsolidation. In: I.P. Stolerman (Ed.), *Encyclopedia of Psychopharmacology*, Heidelberg: Springer.
- [20] **Hardt, O.**, Miguez, P.V., Hastings, M., Wong, J., & Nader, K. (2010). PKMzeta maintains one day and six-day-old object location but not object identity memory in dorsal hippocampus. *Hippocampus*, **20**, 691-5.
- [21] Miguez, P.V., **Hardt, O.**, Wu, D.C., Gamache, K., Sacktor, T.C., Wang, Y.T., & Nader, K. (2010). PKMzeta maintains memories by regulating GluR2-dependent AMPA receptor trafficking. *Nature Neuroscience*, **13**, 630-4.
- [22] **Hardt, O.**, Einarsson, E. Ö., & Nader, K. (2010). A Bridge over troubled water: Reconsolidation as a link between cognitive and neuroscientific memory research traditions. *Annual Review of Psychology*, **61**, 141-167.
- [23] Nadel, L. & **Hardt, O.** (2011). Update on memory systems and processes. *Neuropsychopharmacology Reviews*, **36**, 251-73.

- [24] Wang, S.-H., Finnie, P. S. B., **Hardt, O.**, & Nader, K. (2012). Dorsal hippocampus is necessary for novel learning but sufficient for subsequent similar learning. *Hippocampus*, **22**(11), 2157–2170.
- [25] **Hardt, O.**, Nader, K., & Nadel, L. (2013). Decay happens: the role of active forgetting in memory. *Trends in Cognitive Sciences*, **17**(3), 111–120.
- [26] Helfer, P., Schultz, T., Hardt, O., & Nader, K. (2013). A computational model of systems memory reconsolidation. *Proceedings of the Annual Meeting of the Cognitive Science Society*, **35**.
- [27] Nader, K., Hardt, O., Einarsson, E. Ö., & Finnie, P. S. B. (2013). The Dynamic Nature of Memory. In C. Alberini (Ed.) *Memory Reconsolidation* (pp. 15–41). New York: Elsevier Academic Press.
- [28] Miguez, P. V., **Hardt, O.**, Finnie, P., Wang, Y. W., & Nader, K. (2014). The maintenance of long-term memory in the hippocampus depends on the interaction between N-ethylmaleimide-sensitive factor and GluA2. *Hippocampus*, ePub ahead of print, doi:10.1002/hipo.22295.
- [29] Nader, K., Hardt, O., Lanius, R. (2014). Memory as a new therapeutic target. *Dialogues in Clinical Neuroscience*, **15**(4), 475-486.
- [30] **Hardt, O.**, Nader, K., & Wang, Y. T. (2014). GluA2-dependent AMPA receptor endocytosis and the decay of early and late long-term potentiation: possible mechanisms for forgetting of short- and long-term memories. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **369**(1633), 20130141
- [31] Sachser, R.M., Santana, F., Crestani, A.P., Dutra, F. D., Lunardi, P., Quillfeldt, J. A., Hardt, O., de Oliveira Alvares, L. (2016). Forgetting of long-term memory requires activation of NMDA receptors, L-type voltage-dependent Ca(2+) channels, and calcineurin. *Scientific Reports*, **6**, 22771.
- [32] Miguez, P. V., Liu, L., Archbold, G., Einarsson, E., Wong, J., McKelvey, K., Ko, S. H., Wang, Y. T., **Hardt, O.** (2016). Blocking synaptic removal of GluA2-containing AMPA receptors prevents the natural forgetting of long-term memories. *The Journal of Neuroscience*, **36**(12), 3481-3494.
- [33] Sabia, M., Hardt O., Hupbach, A. (2017). The long-term consequences of correctly rejecting and falsely accepting target-related foils in visual recognition memory. *Learning and Motivation*, **57**, 67-81.
- [34] Tuttle, A., Tansley, S., Dossett, K., Tohyama, S., Khoutorsky, A., Maldonado-Bouchard, S., Stein, L., Gerstein, L., Crawhall-Duk, H., Pearl, R., Sukosd, M., Leger, P., Hardt O., Yachnin, D., Austin, J.-S., Chen, C. M., Pooters, T., Groves, I., Martin L.J., Sonenberg, N., Gkogkas, C., Mogil, J. (2017). Social propinquity in rodents as measured by tube cooccupancy differs between inbred and outbred genotypes. *Proceedings of the National Academy of Sciences USA*, **114**(21), 5515-5520.
- [35] **Hardt, O.** & Nadel, L. (2018). Systems consolidation revisited, but not revised: The promise and limits of optogenetics in the study of memory. *Neuroscience Letters*, **680**, 54-59.
- [36] Miguez, P. V., Wong, J., Lyu, J., **Hardt, O.** (2019) NMDA receptor activity bidirectionally controls active decay of long-term spatial memory in the dorsal hippocampus. *Hippocampus*, **29**, 883-888.
- [37] Pickett, E. K., Herrmann, A. G., McQueen, J., Abt, K., Dando, O., Tulloch, J., Jain, P., Dunnett, S., Sohrabi, S., Fjeldstad, M., Calkin, W., Murison, L., Jackson, R. J., Tzioras, M., Stevenson, A., D'Orange, M., Hooley, M., Davies, C., Oren, I., Rose J., McKenzie, C.-A., Allison, E., Smith, C., Hardt, O., Henstridge, C. M., Hardingham, G., Spires-Jones, T. L. (2019). Reducing tau ameliorates behavioural and transcriptional deficits in a novel model of Alzheimer's disease. *Cell Reports*, **10**, 3592-3604.
- [38] **Hardt, O.** & Sossin, W. (2020). Epistemological and Terminological Issues in Current Memory Research. *Frontiers in Molecular Neuroscience*, **12**: 336; doi: 10.3389/fnmol.2019.00336.
- [39] Faith, W., Davies, C. J., Hope, J. E., McLachlan, F., Marshall, G. F., Kaminioti-Dumont, L., Qarkaxhija, V., Nunez, F., Dando O., Smith, C., Wood, E., MacDonald, J., Hardt, O., Abbott C. M. (2020). Recapitulation of the EEF1A2 D252H neurodevelopmental disorder-causing missense mutation in mice reveals a toxic gain of function in Current Memory Research. *Human Molecular Genetics*, **29**(10), 1592-1606. doi: 10.1093/hmg/ddaa042.
- [40] Tulloch, J., Netsyk, O., Pickett, E. K., Herrmann, A. G., Jain, P., Stevenson, S., Oren, I., **Hardt, O.**, and Spires-Jones, T. L. (2020). Maintained memory and long-term potentiation in a mouse model of Alzheimer's disease with both amyloid pathology and human tau. *European Journal of Neuroscience*, **53**, 637-648.
- [41] Katsanevaki, G.D., Till, S. M., Buller-Peralta, I., Watson, T. C., Arkell, D., Nawaz, S., Tiwari, S., Kumar, V., Anstey, N., Smith, J., Chattarji, S., Gonzalez-Sulser, G., **Hardt, O.**, Wood, E. R., Kind, P. C. (2020) Heterozygous deletion of SYNGAP enzymatic domains in rats causes selective learning, social and seizure phenotype. bioRxiv 2020.10.14.339192; <https://doi.org/10.1101/2020.10.14.339192>

- [42] Arkell, D., Groves, I., Wood, E. R., **Hardt, O.** (2021) The Black Box effect: sensory stimulation after learning interferes with the retention of long-term object location memory in rats. *Learn Mem*, **28**, 390-399
- [43] Anstey, N., Kappagal, V., Tiwari, S., Watson, T. C., Toff, A. K. H., Dando, O. R., Inkpen, F. H., Baxter, P. S., Kozic, Z., Jackson, A. D., He, X., Nawaz, M. S., Kayenaat, A., Bhattacharya, A., Wyllie, D. J. A., Chattarji, S., Wood, E. R., **Hardt, O.**, Kind, P. C. (2022) Imbalance of flight-freeze responses and their cellular correlates in the Nlgn3^{-y} rat model of autism. *Molecular Autism*, **13**(1), 34; <https://doi.org/10.1186/s13229-022-00511-8>
- [44] Augereau, K., Miguez, P. V., & **Hardt, O.** (2022) Infusions of zip into the perirhinal cortex disrupt long-term object recognition memory without affecting object location memory. *Front Behav Neurosci* **6**;16:1007748. doi: 10.3389/fnbeh.2022.1007748.
- [45] Moraes, B. & **Hardt, O.** (2023) Specific behaviors during auditory fear conditioning and postsynaptic expression of AMPA receptors in the basolateral amygdala predict interindividual differences in fear generalization in male rats. *Learn Mem* **30**(4), 74-84. doi: 10.1101/lm.053612.122.

Papers currently under review

- [1] Archbold, G., Nader, K, **Hardt, O.** The interaction between N-Ethylmaleimide-Sensitive Factor and GluA2 is required for the maintenance of fear extinction memory. *Neuropsychopharmacology*.

Papers in preparation for submission

- [1] Arkell, D., **Hardt, O.**, Wood, E. Reducing sensory stimulation after learning increases coherence of place fields in the dorsal hippocampus.
- [2] Groves, I., Arkell, D., Hardt, O. The hippocampus prevents that ongoing sensory stimulation interferes with long-term memory formation in extra-hippocampal areas.
- [3] Groves, I., Harley, C., **Hardt, O.**, Nadel, L.. The role of the Locus Coeruleus in memory dynamics..

INVITED TALKS

- [1] March 2014, "Towards a neurobiology of forgetting", Neuroscience Day, The University of Edinburgh, UK.
- [2] March 2014, "Active Decay Theory", ABC Lecture, Universiteit van Amsterdam, The Netherlands
- [3] August 2014, "Active Decay of Long-Term Memory", Scottish Neuroscience Group meeting, Glasgow, UK
- [4] September 2014, "Mechanisms of forgetting", Neuroscience Seminar Series, Dundee, UK
- [5] November 2015, "How does the brain forget?", International Graduate School of Neuroscience Colloquium, Bochum, Germany
- [6] December 2015, "Forgetting: Mechanisms and functional significance", BMI-Agalma-NCCR SYNAPSY Joint Symposium "Mechanisms of Memory Consolidation, Reconsolidation and Extinction - and their Relevance to Psychiatry", EPFL, Lausanne, Switzerland
- [7] May 2016, "How does the brain forget?", CIN Neurobiologisches Montagskolloquium, Universität Tübingen, Germany
- [8] January 2017, "How does the brain forget?", Soup and Science, McGill
- [9] May 2017 "Forgetting of Long-Term Memories", Symposium at Annual Meeting of Canadian Association of Neuroscience, Montréal, QC, Canada
- [10] June 2017 "Forgetting: Possible Functions", Workshop "Forgetting: A Forgotten Issue", Psychology Department, University of Edinburgh, UK.
- [11] September 2019, "Imbalance of flight-freeze responses and their cellular correlates in the Nlgn3^{-y} rat model of autism and intellectual disability", Simons Initiative for the Developing Brain (SIDB): 3rd Annual Research Retreat, Edinburgh, Scotland
- [12] February 2020, "How and what can we learn from rodent behaviour? The case of the neuroligin-3 knockout rat.", RTSA-TACC 3rd Annual Scientific Conference: The Next Generation, Montréal, Canada.
- [13] July 2020, "THE HABITAT: A novel housing design that improves animal welfare and promotes understanding of ethologically relevant behaviours", University of Edinburgh 3R Day, UK (online).

- [14] October 2020, "The Habitat: A New Approach To Phenotyping", LouLou Forum 2020, United States (online).
- [15] April 2021, "Revisiting Phenotyping: 'Pipeline' & Habitat", SFARI Workshop, Simons Foundation, New York (online)
- [16] August 2021, "The Habitat: Update on Progress", Revisiting Phenotyping: 'Pipeline' & Habitat", Simons Initiative for the Developing Brain (SIDB): 4th Annual Research Retreat, Edinburgh, Scotland

CONFERENCE PRESENTATIONS

- [1] **Hardt, O.** (1998). SARA: selektive Aktivierung, Rückschaufehler & Ankereffekt: Evaluation eines kognitiven Modells. In H. Lachnit, A. Jacobs & F. Rösler (Eds.), *Experimentelle Psychologie - Abstracts der 40. Tagung experimentell arbeitender Psychologen* (S. 261). Lengerich: Pabst.
- [2] **Hardt, O.**, Pohl, R. F. & Eisenhauer, M. (1998). Evaluierung von SARA: Erklärung von Ankereffekten und Rückschaufehler. In W. Hacker (Ed.), *Abstracts vom 41. Kongreß der Deutschen Gesellschaft für Psychologie in Dresden 1998* [Disk]. Dresden: Technische Universität Dresden.
- [3] **Hardt, O.**, Pohl, R. F. & Eisenhauer, M. (1999). SARA, Ankerplausibilität und Rückschaufehler: Wovon hängt die Ankerplausibilität ab, wie wirkt sie sich auf den Rückschaufehler aus und wie gut sind die Befunde durch das Modell SARA abbildbar? In E. Schröger, A. Mecklinger & A. Widman (Eds.), *Beiträge zur 41. Tagung der experimentell arbeitenden Psychologen*, p. 314-315. Lengerich: Pabst.
- [4] **Hardt, O.**, Pohl, R. F. & Eisenhauer, M. (2000). Überprüfung modellkritischer Annahmen des kognitiven Modells SARA zu Rückschaufehler und Ankereffekt. In D. Vorberg et al. (Ed.), *Experimentelle Psychologie – 42. Tagung experimentell arbeitender Psychologen*, p. 123. Lengerich: Pabst.
- [5] Laurance, H. E., **Hardt, O.**, Nadel, L., & Jacobs, W. J. (2001, September). Stress affects spatiotemporal processing: Support for a model of Traumatic Memory. Poster session presented at the annual meeting of the APA, San Francisco, CA.
- [6] Glisky, E., Ryan, L., Reminger, S., **Hardt, O.**, Hayes, S., Hupbach, A., & Kaiser (October 2001). A case of dissociative fugue? I understand, aber ich verstehe nichts. Symposium on "Emotion and Memory," Memory Disorders Research Society, Boston, MA.
- [7] **Hardt, O.**, Hupbach, A., & Nadel, L. (2002, April). No Blocking In Place Learning. Poster presented at the annual meeting of the Cognitive Neuroscience Society. April 14-16, San Francisco, CA.
- [8] Payne, J.D., Jacobs, W.J., **Hardt, O.**, Lopez, C., & Nadel, L. (2002, April). Stressing memory: Effects on spatial and episodic memory. Poster presented at the annual meeting of the Cognitive Neuroscience Society. April 14-16, San Francisco, CA.
- [9] Payne, J.D., Jacobs, W.J., **Hardt, O.**, Lopez, C., & Nadel, L. (2002, July). Stress and binding: a role for the hippocampus in contextual and episodic memory. Poster presented at the annual meeting of the Forum of European Neuroscience Society. July 13-17, Paris, France.
- [10] Payne, J.D., Jacobs, W.J., **Hardt, O.**, Hoscheidt, S., & Nadel, L. (2003, March). The role of stress: Binding in episodic and emotional memory. Poster presented at the annual meeting of the Cognitive Neuroscience Society. March 30-April 1, New York, NY.
- [11] **Hardt, O.** & Nadel, L. (2003, November). Place Learning is Special. Talk presented at the 44th Annual Meeting of the Psychonomic Society, Vancouver, BC. [12] **Hardt, O.**, Wang, S.-H., & Nader, K. (2006, March). Nature of Amnesia: Storage or Retrieval Deficit? Talk presented at Cold Spring Harbor Laboratories. Cold Spring Harbor, NY.
- [13] Wang, S.-H., **Hardt, O.**, Nader, K. (2006, October). Searching the brain mechanism of the second contextual fear conditioning. Poster presented at the annual meeting of the Society for Neuroscience. October, 14-18, Atlanta, GA.
- [14] **Hardt, O.**, Wang, S.-H., & Nader, K. (2006, October). The Nature of Amnesia: A storage failure ... which may impair retrieval?! Poster presented at the annual meeting of the Society for Neuroscience. October, 14-18, Atlanta, GA.

- [15] Hupbach, A., Gomez, R., **Hardt, O.**, & Nadel, L. (2007, April). Reconsolidation of children's episodic memories: A subtle reminder triggers integration of new information. Poster presented at the Biennial Meeting of the Society for Research in Child Development. April 2007, Boston, MA.
- [16] Hupbach, A., Gomez, R., **Hardt, O.**, & Nadel, L. (2007, May). Updating episodic memories: A special role of spatial context. Talk given at second European Cognitive Science Conference. May 2007, Delphi, Greece.
- [17] Finnie, P. S., Wang, S.-H., **Hardt, O.**, & Nader, K. (2007, November). Does the hippocampus count bad things? Components of contextual fear conditioning that render subsequent learning independent of NMDA-receptors in the dorsal hippocampus. Poster presented at the annual meeting of the Society for Neuroscience, November, San Diego, CA.
- [18] Jones, B., McClung, A., Hupbach, A., **Hardt, O.**, Gomez, R., Nadel, L., & Fellous, J.M. (2007, November). Dynamics of sequence learning in rats: The influence of reminders and training by blocks. Poster presented at the annual meeting of the Society for Neuroscience, November, San Diego, CA.
- [19] **Hardt, O.** Hastings, M., Wong, J., & Nader, K. (2008, November). Long-term memory for objects and object location: Effects of ZIP infusions into dorsal hippocampus. Poster presented at the annual meeting of the Society for Neuroscience, November, Washington, DC.
- [20] Pompeiano, M., Vermunt, L., Nader, K. & **Hardt, O.** (2008, November). Poster presented at the annual meeting of the Society for Neuroscience, November, Washington, DC.
- [21] Nadel, L. & **Hardt, O.** (2008, December). Attention and spatial learning in humans in a virtual maze task. International Conference on Attention, December, Allahabad, India.
- [22] **Hardt, O.** (2009, June). PKMzeta maintains object location knowledge in dorsal hippocampus. Talk presented at the Spring Hippocampal Research Conference, June 14-19, Verona, Italy.
- [23] Miguez, P.V., **Hardt, O.**, Wu, D., Gamache, K., Sacktor, T., Wang, Y., & Nader, K (2009, October). PKMzeta maintains memories through GluR2-dependent AMPA receptor trafficking. Poster presented at the annual meeting of the Society for Neuroscience, October, Chicago, IL.
- [24] Hastings, M.H., Wong, J., Litwin, L., Nader, K., & **Hardt, O.** (2009, October). Neural substrates of object-location memory change with extensive training. Poster presented at the annual meeting of the Society for Neuroscience, October, Chicago, IL
- [25] **Hardt, O.**, Hastings, M.H., Wong, J., Miguez, P.V., & Nader, K. (2009, October). Memory for object location, but not object identity, depends on PKMzeta activity in the dorsal hippocampus at remote and recent time points. Poster presented at the annual meeting of the Society for Neuroscience, October, Chicago, IL.
- [26] **Hardt, O.**, Bozzo, A., Augereau, K., Miguez, P.V., & Nader, K. (2010, July). Persistence of object identity memory requires PKMzeta activation in perirhinal cortex. Poster presented at the EMCCS-FENS 4th annual meeting, July 1 and 2, Amsterdam.
- [27] **Hardt, O.**, Pors, J., Wong, J., & Nader, K. (2010). Object location memory becomes independent of the dorsal hippocampus with extensive training: hippocampal involvement in restabilization, but not retrieval, of these extra-hippocampal memories. FENS Abstr. vol 5, 057.30.
- [28] Miguez P.V., **Hardt, O.**, Wu D.C., Gamache K., Sacktor T.C., Wang Y.T., & Nader, K. (2010). Stabilization of postsynaptic GluR2/AMPA receptors maintains long-term memories. FENS Abstr. vol 5, 057.50.
- [29] Cauman S., Conrad K., **Hardt, O.**, & Bohbot, V. (2010). Performance of hippocampus-dependent spatial learners and caudate nucleus-dependent response learners in the virtual water maze. Poster presented at the annual meeting of the Society for Neuroscience, November, San Diego, CA.
- [30] Miguez P.V., **Hardt, O.**, Wu D.C., Gamache K., Sacktor T.C., Wang Y.T., & Nader, K. (2010). Stabilization of postsynaptic GluR2/AMPA receptors maintains long-term memories. Talk presented at the Nanosymposium on Postsynaptic Signaling Mechanism at the annual meeting of the Society for Neuroscience, November, San Diego, CA.
- [31] **Hardt O.**, Miguez, P.V., Augereau, K., Wong, J., & Nader, K. (2010). PKMzeta and long-term maintenance of object recognition memory: A double dissociation of perirhinal cortex and dorsal hippocampus. Poster presented at the annual meeting of the Society for Neuroscience, November, San Diego, CA.
- [32] **Hardt O.**, Miguez, P.V., Wong, J., & Nader, K. (2011). The neurobiology of forgetting: Internalization of GluR2 containing AMPA receptors mediates decay of long-term memory in hippocampus. Poster presented at the 43rd European Brain and Behaviour Society Meeting, September, Seville, Spain.

- [33] Miguez, P.V., **Hardt O.**, & Nader, K. (2011). The interaction between GluR2 and N-ethylmaleimide-sensitive factor is crucial for memory maintenance in the hippocampus. Poster presented at the 43rd European Brain and Behaviour Society Meeting, September, Seville, Spain.
- [34] **Hardt O.**, Miguez, P.V., Wong, J., & Nader, K. (2011). The biological basis of everyday forgetting. Talk presented at the annual meeting of the Memory Disorders Research Society, Barcelona, Spain.
- [35] Nader, K., **Hardt O.**, Finnie, P., & Wang, S.-H. (2011). Understanding different forms of amnesia. Talk presented at the annual meeting of the Memory Disorders Research Society, Barcelona, Spain.
- [36] **Hardt O.**, Conrad, K., & Bohbot, V.D. (2011). A sex by strategy interaction in the virtual water maze shows that women using hippocampus-dependent navigational strategies learn as fast and as accurately as men but that women using caudate nucleus-dependent response strategies are impaired. Poster presented at the annual meeting of the Society for Neuroscience, November, Washington DC.
- [37] **Hardt, O.** (2012). Memory tasks based on object exploration. Invited lecture University of Lausanne, March 31 2012, Lausanne, Switzerland.
- [38] **Hardt, O.** (2012). The plastic lives of memory. Invited lecture University of Lausanne, March 31 2012, Lausanne, Switzerland.
- [39] **Hardt, O.**, Miguez, P.V., Wong, J., & Nader, K. (2012). The neurobiology of forgetting: Active removal of GluA2-containing AMPA receptors mediates forgetting of object location memory. Associative Learning Symposium (XVI), April, Gregynog Hall, Wales, UK.
- [40] **Hardt, O.** (2012). The neurobiology of forgetting. Invited talk Centre for Cognitive and Neural Science, University of Edinburgh, April 23 2012, Edinburgh, Scotland, UK.[41] **Hardt, O.** (2012). The neurobiology of forgetting. Invited talk Department of Psychology, Cardiff University, May 10 2012, Cardiff, Wales, UK.
- [42] **Hardt, O.**, Miguez, P.V., Wong, J., & Nader, K. (2012). The neurobiology of forgetting: Internalization of GluA2 containing AMPA receptors mediates decay of long-term memory in hippocampus. FENS Meeting, July, Barcelona, Spain.
- [43] Archbold, G.E., **Hardt, O.**, McKelvey, K. & Nader, K. (2012). Involvement Of AMPAR Trafficking In The Maintenance Of Extinction Memory In The Infralimbic Cortex. FENS Meeting, July, Barcelona, Spain.
- [44] Miguez, P.V., **Hardt, O.** & Nader, K. (2012). The Maintenance Of Long-Term Memory In The Hippocampus Depends On The Interaction Between N-Ethylmaleimide-Sensitive Factor And GluA2. FENS Meeting, July, Barcelona, Spain.
- [45] **Hardt, O.** (2012). The plastic lives of memories. Invited lecture at the CSCA Summer School: Emotional Memory, University of Amsterdam, June, Amsterdam, The Netherlands.
- [46] **Hardt, O.** (2012). The neurobiology of memory persistence and forgetting: Regulation of the synaptic content of GluA2-containing AMPA receptors mediates persistence and decay of long-term memory. Invited talk at Séminaire Bordeaux Neuroscience, University of Bordeaux, September 28, Bordeaux, France.
- [47] **Hardt, O.**, Miguez, P.V., Wong, J., & Nader, K. (2012). The neurobiology of forgetting: Internalization of GluA2 containing AMPA receptors mediates decay of long-term memory in hippocampus. Champalimaud Neuroscience Symposium, Champalimaud Center of the Unknown, September, Lisbon, Portugal.
- [48] Miguez, P.V., **Hardt, O.**, Finnie, P., & Nader, K. (2012). The maintenance of long-term memory in the hippocampus depends on the interaction between N-Ethylmaleimide-Sensitive Factor (NSF) and GluA2. Champalimaud Neuroscience Symposium, Champalimaud Center of the Unknown, September, Lisbon, Portugal.
- [49] **Hardt, O.**, Miguez, P.V., Wong, J., Seunghyun Ko, Jeongho Lyu, & Nader, K. (2013). Decay happens: The neurobiology of active forgetting of long-term memory. Poster presented at the 54th Annual Meeting of the Psychonomics Society, Toronto, Canada.
- [50] Moraes, B.J., Nader, K., & **Hardt, O.** (2013). Time-dependent AMPA receptor contribution for memory processing, Oral Presentation at the 17th GABBA Scientific Meeting, Porto, Portugal (December 2013)
- [51] Moraes, B.J., Nader, K., & **Hardt, O.** (2014). Expression of Postsynaptic Density Proteins During Acquisition and Retrieval of an Auditory Fear Memory, FENS-2481, F044 poster, 9th FENS Forum of Neuroscience, Milan, Italy (July 2014).
- [52] Moraes, B.J., Nader, K., **Hardt, O.** (2014) AMPA receptors and memory processing, 18th GABBA Scientific Meeting, Porto, Portugal (December 2014)

- [53] Katsanevaki D, Jackson AD, Mizen LA, Basu S, Chattarji S, Wood ER, Wyllie DJA, **Hardt O**, Kind PC (2016). Characterisation of pathophysiology in a rat model of Syngap haploinsufficiency, Gordon Research Conference (GRC) and Seminar (GRS), Vermont, USA (2016)
- [54] Pickett, E., Herrmann, A., Netsysk, O., Jackson, R., Tulloch, J., Oren, I., **Hardt, O.**, Spires-Jones, T (2017) Human tau is sufficient to drive memory deficits in a new AD mouse model, Alzheimer's Research UK Conference, Aberdeen (March 2017)
- [55] Katsanevaki D, Till D, Nawaz D, Dando O, Mizen L, Hardingham G, Chattarji S, Wood E, **Hardt O.**, Wyllie D, Kind P (2017). Behavioural characterisation of a rat lacking the GAP domain of SynGAP, Society for Neuroscience (SfN) Conference, Washington DC, USA (November 2017). [56] Arkell DE, Allison E, Asiminas A, Wood ER, **Hardt O** (2017). The Black Box Effect: Reducing sensory stimulation after spatial learning promotes memory consolidation, Society for Neuroscience (SfN) Conference, Washington DC, USA (November 2017).
- [57] Arkell DE, Wood ER, **Hardt O** (2017). The Black Box Effect: Reducing sensory stimulation after spatial learning promotes memory consolidation, FENS-Hertie Winter School, Obergurgl, Austria (December 2017).
- [58] Arkell DE, Wood ER, **Hardt O** (2018). The Black Box Effect: Reducing sensory stimulation after spatial learning promotes memory consolidation, Edinburgh Neuroscience Day, Edinburgh, Scotland (March 2018).
- [59] Kapgal V, Tiwari S, Anstey N, Sharma, A, Bhattacharya A, Wyllie D, Wood E, **Hardt O**, Chattarji S, Kind P (2018). Altered expression of fear and active place avoidance in the neuroligin-3 knock-out rat model, Gordon Research Conference "Convergence and Divergence Between Fragile X and Autism Spectrum Disorders", Lucca, Italy (June 2018).
- [60] Arkell DE, Allison, E., **Hardt O.**, Wood ER (2018). The Black Box Effect: reducing sensory stimulation after spatial learning promotes memory consolidation and place field stability., FENS Forum, Berlin, Germany (July 2018).
- [61] Arkell DE, Wood ER, **Hardt O** (2018). The black box effect: Reducing sensory stimulation after spatial learning promotes memory consolidation, Talk presented at the 1st Annual Learning and Memory Conference, Centre for Learning and Memory Processes (LAMP), Durham University, UK (October 2018).
- [62] Spires, T.L., Pickett, K., Tulloch, J., Herrmann, A. G., Netsyk, O., Jain, P., Dunnett, S., Sedeh S. S., Fjeldstad, M., Calkin, W., Murison, L., Jackson, R. J., Mcqueen, J., Pitstick, R., Mckenzie, C.-A., Allison, E., Carlson, G., Smith, C., Oren, I., **Hardt O.**, Henstridge, C. M.. Reducing tau in synapses is associated with amelioration of behavioural deficits in a novel model of Alzheimer's disease, Society for Neuroscience (SfN) Conference, San Diego, USA (November 2018).
- [63] Groves, I, **Hardt, O.** (2019). The role of the hippocampus in memory consolidation, Healthy Brains for Healthy Lives Research Day, McGill University, Montréal, Canada (May 2019).
- [64] Bernabo, M, **Hardt, O.** (2019). Keeping It Together: The Role of PKMzeta in Memory Destabilization and Reconsolidation, Healthy Brains for Healthy Lives Research Day, McGill University, Montréal, Canada (May 2019).
- [65] Anstey NJ, Kapgal V, Watson TC, Toft AKH, Tiwari S, Nawaz S, Chattarji S, Wyllie DJA, Wood ER, **Hardt O**, Kind PC (2019). Imbalance of flight-freeze responses and their cellular correlates in the Nlgn3-/- rat model of autism, Simons Initiative for the Developing Brain (SIDB): 3rd Annual Research Retreat (September 2019).
- [66] Harris AP, Zakarauskaite K, Spooner P, Kind PC, **Hardt O** (2019). The Efficient Environmental Enrichment (3E) Habitat: A modular housing system for phenotyping rodent models of ASD, Simons Initiative for the Developing Brain (SIDB): 3rd Annual Research Retreat (September 2019).
- [67] Anstey NJ, Kapgal V, Tiwari S, Watson TC, Toft AK, Inkpen FH, Nawaz S, Kayenaat A, Wyllie D, Chattarji S, Wood ER, **Hardt O**, Kind PC (2020). Imbalance of flight-freeze responses and their cellular correlates in the Nlgn3-/- rat model of autism and intellectual disability, ePoster at FENS 2020 Virtual Forum (July 11-15 2020).
- [68] Arkell A, Groves I, Wood ER, **Hardt O**, (2020). The Black Box Effect: reducing visual stimulation and social interaction after spatial learning promotes memory consolidation, ePoster at FENS 2020 Virtual Forum (July 11-15 2020).
- [69] Davies F, Hope J, McLachlan F, Kaminioti Dumont L, Qarkaxhija V, Nuñez F, Dando O, Smith C, Wood ER, MacDonald J, **Hardt O**, Abbott C, Marshall GF (2020). Recapitulation of the EEF1A2 D252H neurodevelopmental disorder-causing missense mutation in mice reveals a toxic gain of function, ePoster at FENS 2020 Virtual Forum (July 11-15 2020).

- [70] Groves I, Arkell D, Wood ER, **Hardt O** (2020). The hippocampus promotes formation of long-term memory for objects in rats by preventing sensory interference after learning, ePoster at FENS 2020 Virtual Forum (July 11-15 2020).
- [71] Harris A, Kind P, **Hardt O** (2020). Understanding behavioural phenotypes in rat models of monogenic forms of ASD/ID. Talk at Simons Initiative for the Developing Brain Research Day (online, August 8 2020).
- [72] Groves I, **Hardt O** (2020). The hippocampus promotes long-term memory formation by preventing sensory interference after learning, Talk at McGill Graduate Symposium Online (September 4 2020)
- [73] Groves I, **Hardt O** (2020). The hippocampus promotes long-term memory for objects in rats by preventing sensory interference after learning, Talk at Neuromatch Online (October 26 2020).
- [74] Groves I, Arkell D, Wood E, **Hardt O** (2021) The hippocampus promotes formation of long-term memory for objects in rats by preventing sensory interference after learning. Talk at CSBBBCS (Virtual Forum, June 18 2021)
- [75] Groves I, Arkell D, Wood E, **Hardt O** (2021) The hippocampus promotes formation of long-term memory for objects in rats by preventing sensory interference after learning. CAN-ACN (Virtual Forum, August 22 2021)
- [76] Groves I, Arkell D, Wood E, **Hardt O** (2022) The hippocampus promotes object memory consolidation by preventing sensory interference. Poster presented at the annual meeting of the Society for Neuroscience (November 2022), San Diego, CA.

TEACHING

The University of Arizona	Human Sexuality (PSYC 364) Memory (PSYC 326) Cognitive Psychology (PSYC 325)
The University of Edinburgh	Neurobiology of Cognition (BIME10010)
McGill University	Introduction to Psychology (PSYC 100) Honours Research Project and Seminar (PSYC 380) Research Project and Seminar (PSYC 450) Memory and the Brain (PSYC 470) Advanced Honours Seminar (PSYC 482) Neurobiology of Learning and Memory (BIOL 514 PSYC 514) Behavioural Neuroscience Special Topics (PSYC 781)

GUEST LECTURES AND INVITED LECTURES

Guest Lectures	Malleability of Memory; Memory Systems; Exploratory Data Analysis; Spatial Behavior; Memory Reconsolidation; Forgetting; Long-Term Potentiation; Synaptic Plasticity
Invited Lectures	Memory Tasks Based on Object Exploration Université de Lausanne, March 2012 The Plastic Lives of Memories Universiteit van Amsterdam CSCA Summer School on Emotional Memory, June 2012 Memory reconsolidation and forgetting Emotional Memory Course Universiteit van Amsterdam, October 2015, 2016, 2017

STUDENT SUPERVISION

- 2005-current Undergraduate research thesis Supervisor (McGill University), 29 students**
Allison Greene, Anthony Bozzo, Eric Finkel, Fiona Sewell, Hey Rim Ha, Jacinda Wong, Jadlyn Shiff, Jennifer Pors, Jeongho Lyo, Keanan Augerau, Kyra McKelvey, Leah Litwin, Madison Sayers, Margaret Hastings, Julia Askew, Megan Barran-Goldwax, Kelly Brues, Loran Carpentier, Jonah Dutz, Fei Huang, Zainab Mehdi, Tasha Miller, Marielle Montenegro, Lisa Pennel, Célia Sciandra, Fiona Sewall, Emilie Villaincourt, Betty Wang, Hope Zhang
- 2013 SSC2b Project Supervisor (The University of Edinburgh)**
Undergraduate students: Chan Hee Koh, Calum Perera, Alex Danson, Andrew Martin
- 2014-2018 PhD Student Supervisor (The University of Edinburgh)**
Daisy Arkeell, Bruno Moraes, Danaí Katsanevaki (Co-Supervisor)
- 2015-2022 Honours Project Supervisor (The University of Edinburgh), 20 students**
Ahnjili Zhuparris, Austin Koh, Rachel Miller, Maria Lopez Quiroga, Ewan Mahony, Patrick Dodd, Samuel Tung, Derek Chan, Erika Zeigyte, Alisha Sachdev, Martyna Rakowska, Julia Masselos, Alice Levett, Aidan Goodhew, Christy Horn, Emily Hu, Octavia Leahy, Kit Marfleet, Vittoria Pisano, Nick Shkarishvili, Max Wong
- 2016-present Undergraduate Volunteer Research Assistants (McGill, 17 students)**
Gracia Cassis, Siyuan Chen, Iris Dong, Sophia Harman-Heath, Paloma Hepler, Fei Huang, Yuqi Huang, Valerie Mansy, Regan Palmerio, Krystal Pan, Lisa Pennel, Jadlyn Shiff, Tom Tyler, Emma Vrignaud, Betty Wang, William Wu, Karolina Zakarauskaitė
- 2016-2017 Masters Student Project Supervisor (The University of Edinburgh)**
Joanna Smith, Isabel Groves, Erica Brady
- 2017-2018 PostDoctoral Supervisor (McGill University)**
Léa LeBarrillier, PhD
- 2017-2020 Doctoral Thesis Supervisor (McGill University)**
Matteo Barnabo, Jane Zhang, Taylor Weeks
- 2017-present Doctoral Thesis Supervisor (McGill University)**
Isabel Groves, Cong Zha (Co-Supervision)
- 2018-2021 PostDoctoral Co-Supervisor (McGill University)**
Josué Haubrich, PhD
- 2018-present PostDoctoral Co-Supervisor (University of Edinburgh)**
Anjanette Harris, PhD
- 2022-present PostDoctoral Co-Supervisor (University of Edinburgh)**
Estelle Meaux, PhD
- 2022-present MSc Supervisor (McGill)**
Célia Sciandra

EDITORIAL SERVICES

Hosting and handling editor: I organized and served as hosting editor for a special issue on *Forgetting* in *Frontiers in Psychology* (https://www.frontiersin.org/Cognition/researchtopics/forgetting_recent_advances_in_/598). I am a handling editor for *Frontiers in Integrative Psychology*, and an editorial board member of *Frontiers*. I am an elected member of *Faculty Opinions* (formerly F1000) for the Section “Cognitive Neuroscience, Cognitive Neuropsychology & Experimental Psychology” in the Faculty “Psychology”.

Ad Hoc Reviewer: *Behavioural Neuroscience, Behaviour Research Methods, Behavioural Brain Research, BMC Biology, Brain Research, Brain Research Bulletin, Brain Stimulation, Current Biology, Cerebral Cortex, Cortex, Current Opinion in Psychology, Current Directions in Psychological Science, European Journal of Neuroscience, Frontiers in Behavioural Neuroscience, Frontiers in Neuroscience, Frontiers Integrative Neurosciences, Frontiers in Psychology, Genes, Brain & Behaviour, Hippocampus, Journal of Neuroscience, Journal of Cognitive Education and Psychology, JoVE, Learning & Memory, Memory, Molecular and Cellular Neuroscience, Molecular Autism, Nature, Nature Neuroscience, Nature Communications, Neural Plasticity, Neuroscience & Biobehavioural Reviews, Neurobiology of Learning and Memory,*

Neuropsychologia, Neuropsychopharmacology, PLOSone, Psychoneuroendocrinology, Psychology of Consciousness, Psychological Review, Science, Scientific Reports, Trends in Cognitive Science, Trends in Neurosciences, WIREs Cognitive Science.

Grant proposals: American Behavioural Society (ABS), Alzheimer's Research UK (ARUK), Biotechnology and Biological Sciences Research Council (BBSRC), Binational Science Foundation (BSF), Deutsche Forschungsgemeinschaft (DFG), European Research Council (ERC), Fonds Wetenschappelijk Onderzoek - Vlaanderen (FWO, Research Fund - Flanders), Grantová agentura České republiky (GACR, The Czech Science Foundation), Human Frontiers of Science, Israel Science Foundation (ISF), Medical Research Council (MRC), The Netherlands Organisation for Scientific Research (NWO), Wellcome Trust.

Conferences: EuroCogSci 2007

OUTREACH AND PUBLIC SERVICE

Printed and online news outlets: *The National, The Independent, Scotsman, Daily Mail* (all April 2016), *Bild der Wissenschaft* (4/2015, p78-83), *Quanta Magazine* (July 24 2018), *Nature Outlook* (*Nature* **571**, 2019, S12-S14), *BBC Science Focus Magazine* (09 2019, p26-27), *Brain World* (July 30 2020), *Australian Broadcasting Company News* (April 6 2022; <https://www.abc.net.au/news/2022-04-07/forgetting-not-a-sign-of-decay-its-the-way-the-brain-functions/100969418>); *Time Magazine* (print issue May 2 2022; online <https://time.com/6171190/new-science-of-forgetting/>); *The Guardian/The Observer Magazine* (print issue July 3 2022; online <https://www.theguardian.com/global/2022/jul/03/is-your-smartphone-ruining-your-memory-the-rise-of-digital-amnesia>)

Radio: BBC Scotland, Forth One, Forth 2, Radio Borders (April 2016). CBC Canada Sunday Edition (Jan 4 2019). Australian Broadcasting Company "Future Tense" (March 27 2022, <https://www.abc.net.au/radionational/programs/futuretense/forgetting-not-memory-moves-us-forward/13798670>)

Public Talks: "The remains of Decay: How and Why the Brain Forgets", Pint of Science Event (May 15 2017); "How the brain Forgets, McGill MiniScience (April 27 2022, <https://www.youtube.com/watch?v=sJZM1FtkKrE>)

MEMBERSHIPS

Animal Behavioural Society, American Psychological Association, Canadian Association for Neuroscience, The Society for Neuroscience, European Brain and Behaviour Society, International Brain Research Organization, British Neuroscience Association, British Neuropsychological Society, Deutscher Hochschulverband

LANGUAGES

German (native – fluent); French (B2 – Intermediate 2), English (C2 – Advanced 2), Spanish (A1 – Basic)