CURRICULUM VITAE
NICOLAS SCHUCK

February 2, 2026

Institute of Psychology, Universität Hamburg
Von-Melle-Park 5, 20146 Hamburg, Germany
nicolas.schuck@uni-hamburg.de
schucklab.gitlab.io

POSITIONS

Since 10/2022	**Universität Hamburg** Professor of Cognitive Neuroscience (open-topic professorship, W2, tenured)
2017 – 2023	**Max Planck Institute for Human Development &** **Max Planck UCL Centre for Computational Psychiatry Research** Group Leader
2013 – 2017	**Princeton University, Princeton Neuroscience Institute** Postdoctoral Researcher (supervisor: Yael Niv)
2010 – 2013	**Max Planck Institute for Human Development** Doctoral Student (supervisor: Shu-Chen Li)

EDUCATION

2010 – 2013	**Dr.rer.nat. (PhD) in Psychology** Humboldt-Universität zu Berlin (summa cum laude, Supervisor: Shu-Chen Li)
2007 – 2008	**Minor in Machine Learning** University of Toronto (university exchange, Supervisors: Geoff Hinton & R Zemel)
2004 – 2010	**Dipl.Psych. (MA) in Psychology** Humboldt-Universität zu Berlin (supervisor: Peter Frensch)

FUNDING & AWARDS

2025 – 2028	**DFG Research Training Unit** | *co-PI subproject B2, w/ Lars Schwabe*
2022 – 2027	**Open Topic Professorship (Excellence Initiative)** | *PI*
2022 – 2027	**DFG Grant** | *PI with John-Dylan Haynes & Ondrej Zika*
2021 – 2024	**DFG Grant** | *PI, with Mingbo Cai*
2020 – 2026	**ERC Starting Grant** | *PI*
2017 – 2023	**Independent Max Planck Research Group Grant** | *PI*
2015 – 2017	**Humboldt-Princeton Grant** | *co-Investigator, with Yael Niv & J.-D. Haynes*
2010 – 2013	**Max Planck PhD Fellowship (IMPRS LIFE)** | *PhD Stipend*
2010 – 2017	**Travel Awards** | *awards from Cosyne, SfN, CSHL, DAAD and others*
2008 – 2010	**DAAD, LEONARDO, Humboldt Scholarships** | *Exchange to UCL & U Toronto*

MEMBERSHIPS / AFFILIATIONS (BY ELECTION)

Since 2025	**ELLIS (European Laboratory for Learning and Intelligent Systems)** | *Member*
Since 2025	**Bernstein Node Computational Neuroscience Hamburg** | *Member*
Since 2023	**Max Planck School of Cognition** | *Adjunct Faculty*
Since 2023	**Hamburg Brain School / Hamburg Center for Neuroscience** | *Faculty*
Since 2023	**MDRS (Memory Disorder Research Society)** | *Member*
2020 – 2026	**University College London, Imaging Neuroscience** | *Honorary Senior Researcher*

PUBLICATIONS

60 publications: 51 journal articles (19 last, 12 first), 5 reviewed conference proceedings, 4 book chapters
Citations: 3150; h index: 28, i10 index: 42 (see Google Scholar profile)

JOURNAL ARTICLES

◕: senior author; ¶: first author; *: equal contribution

Preprints	a◕	Renz, F.M., Grossman, S., Daw, N.D., Dayan, P., Doeller, C.F. & Schuck, N. W. *Neural replay is connected to latent cause inference and supports fast generalization*. **bioRxiv**, 2025.12.12.693963
	b◕	Ren, X., Petzka, M., Nyberg, L., Lindenberger, U. & Schuck, N. W. *Age Differences in Flexibly Binding Memory of What, When and Where*. **OSF**, 9ubsg_v1
	c	Ganesh, P., Donner, T. H., Cichy, R. M., Schuck, N. W., Finke, C., Bruckner, R. *Pupil-linked arousal encodes uncertainty-weighted prediction errors*. **OSF**, c6ujk_v1
2026	60◕	Verra, L., Spitzer, B., Schuck, N. W.*, Zika, O.* *Increased generalisation in trait anxiety is driven by value transfer, not reduced perceptual discrimination*. **Communications Psychology**, in press
	59◕	Hall-McMaster, S., Wittkuhn, L., Verra, L., Hedrich, N. L., Irie, K., Dayan, P., Gershman, S. J.*, Schuck, N. W.* *Entorhinal cortex signals dimensions of past experience that can be generalised in a novel environment*. **Journal of Neuroscience**, e1492252025
2025	58◕	Wittkuhn, L, Krippner, L & Schuck, N.W. *Replay in the human visual cortex during brief task pauses is linked to implicit learning of successor representations*. **PNAS**, 122(34), e2507516122
	57	Rewitz, K., Schuck, N.W., Wolff, W. *The explore-exploit trade-off in sports and exercise: a primer on empirical and computational approaches*. **Psychology of Sport and Exercise**, 103036
	56	Satti, M. H., Wille, K., Nassar, M. R., Cichy, R. M., Schuck, N.W., Dayan, P., Bruckner, R. *Absence of Systematic Effects of Internalizing Psychopathology on Learning Under Uncertainty*. **eLife**, RP-RA-2025-107611
	55◕	Löwe*, A.T., Petzka*, M., Tzegka, M. & Schuck, N.W. *N2 sleep promotes the occurrence of 'aha'moments in a perceptual insight task*. **PLoS Biology**, 23(6), e3003185
	54◕	Hall-McMaster, S., Tomov, M., Gershman, S.J.* & Schuck, N.W.* *Neural evidence that humans reuse strategies to solve new tasks*. **PLoS Biology**, 23(6), e3003174
	53	Simoens, J., Braem, S. Verbeke, P., Chen, H., Mattioni, S., Chai, M., Schuck, N.W. & Verguts, T. *Two time scales of adaptation in human learning rates*. **eLife**, RP-RA-2025-108223
	52	Ahmed, A., Alegret, N., Almeida, B., (...), Schuck, N.W., Schulz, F., Seker, E., Skiba, M., Sosniok, M., Stephan, H., Wang, R., Wang, T., Wegner, K. D., Weiss, P. S., Xu, M., Yang, C., Zargarian, S. S., Zeng, Y., Zhou, Y., Zhu, D., Zierold, R., Parak, W. J. *Interfacing with the brain: How nanotechnology can contribute.* **ACS nano**, 19(11), 10630-10717
2024	51	Nitsch, A., Garvert, M. M., Bellmund, J. L., Schuck, N.W., & Doeller, C.F. *Grid-like entorhinal representation of an abstract value space during prospective decision making.*. **Nature Communications**, 15(1), 1198

50 Moneta, N., Grossman, S., & Schuck, N.W. *Interacting state and value representations in prefrontal cortex*. **Trends in Neursciences**, 47(12), 1055-1069

49 Koch, C., Zika, O., Bruckner, R. & Schuck, N.W. *Influence of surprise on reinforcement learning in younger and older adults*. **PLOS Computational Biology**, 20(8), e1012331

48 Hedrich, N., Schulz, E., Hall-McMaster, S. & Schuck, N.W. *An inductive bias for slowly changing features in human reinforcement learning*. **PLOS Comp. Biology**, 20, e1012568

47 Löwe, A. T., Touzo, L., Muhle-Karbe, P. S., Saxe, A. M., Summerfield, C., & Schuck, N.W. *Abrupt and spontaneous strategy switches emerge in simple regularised neural networks*. **PLoS Computational Biology**, 20(10), e1012505

2023 46 Muhle-Karbe, P. S., Sheahan, H., Pezzulo, G., Spiers, H. J., Chien, S., Schuck, N.W.*, & Summerfield, C.* *Goal-seeking compresses neural codes for space in the human hippocampus and orbitofrontal cortex*.. **Neuron**, 111(23), 3885-3899

45 Garvert, M., Saanum, T., Schulz, E., Schuck, N.W. & Doeller, C. *Hippocampal spatio-temporal cognitive maps adaptively guide reward generalization*. **Nature Neuroscience**, 26(4), 615-626

44 Yao, Y. W., Song, K. R., Schuck, N. W., Li, X., Fang, X. Y., Zhang, J. T., ... & Bruckner, R. *The dorsomedial prefrontal cortex represents subjective value across effort-based and risky decision-making.*. **NeuroImage**, 279, 120326

43 Baeuchl, C., Glöckner, F., Koch, C., Petzold, J., Schuck, N. W., Smolka, M. N., & Li, S. C. *Dopamine differentially modulates medial temporal lobe activity and behavior during spatial navigation in young and older adults.*. **NeuroImage**, 273, 120099

42 Zika, O., Wiech, K., Reinecke, A.,Browning, M. & Schuck, N.W. *Trait anxiety is associated with hidden state inference during aversive reversal learning*. **Nature Communications**, 14(1), 4203

41 Moneta, N., Garvert, M. Heekeren, H. & Schuck, N.W. *Parallel representation of context and multiple context-dependent values in ventro-medial prefrontal cortex*. **Nature Communications**, 14(1), 3156

2022 40 Liu, Y., Nour, M., Schuck, N.W., Behrens, T. & Dolan, R. *Decoding cognition from spontaneous neural activity*. **Nature Reviews Neuroscience**, 23, 204-214

39 Koch, C., Baeuchel, C., Gloeckner, F., Goenner, L, Riedel, P., Smolka, M., Li, S.-C. & Schuck, N.W. *L-DOPA enhances hippocampal walking direction signals in younger and older adults*. **NeuroImage**, 264, 119670

38¶ Schuck, N.W., Wenke, D., Ay, D.S., Loewe, A., Gaschler, R., Shing, Y.L. *Early development of self-guided strategy improvements in children*. **PLoS One**, 17 (5), e0266253

2021 37 Kumar, M., Anderson, M., Antony, J., Baldassano, C., Brooks, P., Cai, M.B., Chen, P.-H.C., Ellis, C., Henselman-Petrusek, G., Huberdeau, D., Hutchinson, J.B., Peeta, L., Lu, Q., Manning, J., Mennen, A.C., Nastase, S., Richard, H., Schapiro, A.C., Schuck, N.W., Shvartsman, M., Sundaram, N., Suo, D., Turek, J.S., Vo, V., Wallace, G., Wang, Y., Zhang, H., Zhu, X., Capota, M., Cohen, J., Hasson, U., Li, K., Ramadge, P.J., Turk-Browne, N., Willke, T. & Norman, K.A. *BrainIAK: The Brain Imaging Analysis Kit*. **Aperture Neuro**, https://apertureneuropub.cloud68.co/articles/42/index.html

36 Wittkuhn, L., Hall-McMaster, S., Chien, S. & Schuck, N.W. *Replay in minds and machines*.

Neuroscience and Biobehavioral Reviews, 129, 367-388

35 Hall-McMaster, S., Dayan, P. & Schuck, N.W. *Control over patch encounters changes foraging behaviour*. **iScience**, 24(9):103005

34 Thurm, F. Schuck, N.W. & Li, S.C. *Differential Prioritization of Intramaze Cue and Boundary Information during Spatial Navigation across the Human Lifespan*. **Scientific Reports**, 11 (1), 1-16

33 Chan, S.Y.C., Schuck, N.W., Lopatina, N., Schoenbaum, G. & Niv, Y. *Human orbitofrontal cortex encodes state prediction errors*. **Behavioral Neuroscience**, 135(4): 487 – 497

32 Wittkuhn, L. & Schuck, N.W. *Dynamics of fMRI patterns reflect sub-second activation sequences and reveal replay in human visual cortex*. **Nature Communications**, 12: 1795

2020 31 Wu, C.M., Schulz, E., Garvert, M.M., Meder, B. & Schuck, N.W. *Similarities and differences in spatial and non-spatial cognitive maps*. **PLoS Computational Biology**, 16(9): e1008149.

30 Allegra, M., Allaei, S.S., Schuck, N.W., Amati D., Laio, A., Reverberi, C. *Brain network dynamics during spontaneous strategy shifts and incremental task optimization*. **NeuroImage**, 116854.

29 Hebart, M. & Schuck, N.W. *Current Topics in Computational Cognitive Neuroscience*. **Neuropsychologia**, 147, 107621.

28 Koch, C., Li, S.C., Polk, T.A. & Schuck, N.W. *Effects of Aging on the Encoding of Spatial Direction in the Human Brain*. **Neuropsychologia**, 141, 107379.

2019 27¶ Schuck, N.W. & Niv, Y. *Replay of task state sequences in the human hippocampus*. **Science**, 364(6447), eaaw5181

26 Hilliard, D., Passow, S., Thurm, F. Schuck, N.W., Garthe, A., Kempermann, G., & Li, S.C. *Noisy galvanic vestibular stimulation modulates spatial memory in young healthy adults*. **Scientific Reports**, 9(1), 9310

25 Cai, M., Schuck, N.W., Pillow, J.W. & Niv, Y. *Representational structure or task structure? Bias in neural representational similarity analysis and a Bayesian method for reducing bias*. **PLoS Computational Biology**, 15(5), e1006299

24 Gaschler, R., Schuck, N.W., Reverberi C., Frensch, P.A. & Wenke, D. *Incidental covariation learning leads to task-set reconfiguration*. **PloS one**, 14(1), e0210597

2018 23 Sharpe, M.J., Stalnaker, T., Schuck, N.W., Killcross, S., Schoenbaum, G., & Niv, Y. *An integrated model of action selection: modes of cortical control of striatal decision making*. **Annual Review of Psychology**, 70, 53-76

22¶ Schuck, N.W.*, Simon, J.*, Meeter, M., Schjeide, B.-M., Bisenack, J., Bertram, L., Gluck, M.A. & Li, S.C. *Age-dependent effects of Kibra on probabilistic classification learning*. **Neurobiology of Aging**, 61, 36-43

2017 21¶ Kaplan, R.*, Schuck, N.W.* & Doeller, C.F. *The role of decision-making processes in memory*. **Trends in Neurosciences**, 40(5), 256-259

20¶ Schuck, N.W., Cai, M., Wilson, RC & Niv, Y. *Human orbitofrontal cortex encodes a cognitive map of state space*. **Neuron**, 91(1), 1402-1412

19 Thurm, F., Schuck, N.W., Fauser, M., Doeller, C.F., Stankevich, Y., Evens, R., Riedel, O., Storch, A., Lüken U. & Li, S.-C. *Dopamine modulation of spatial memory performance in parkinson's disease*. **Neurobiology of Aging**, 38, 93-103

18 Buritica, J.M.R., Eppinger, B., Schuck, N.W., Heekeren, H. R. & Li, S.-C. *Electrophysiological correlates of observational learning in children*. **Developmental Science**, 19(5), 699 - 709

2015 17¶ Schuck, N.W., Doeller, C.F., Frensch, P.A., Polk, T.A., Lindenberger, U. & Li, S.-C. *Human aging alters neural computation and representations during spatial navigation*. **NeuroImage**, 117, 141-150

16¶ Schuck, N.W., Gaschler, R., Wenke, D., Heinzle, J., Haynes, J.-D. & Reverberi, C. *Medial prefrontal cortex predicts internally driven strategy shifts*. **Neuron**, 86(1), 331-340

15 [Commentary] Daniel, R., Schuck, N.W. & Niv, Y. *How to divide and conquer the world, one step at at time*. **PNAS**, 112(10), 2929-2930

2013 14¶ Schuck, N.W., Frensch, P.A., Schjeide, B.-M. , Bisenack, J. , Bertram, L. & Li, S.-C. *Effects of aging and dopamine genotypes on the emergence of explicit memory during sequence learning*. **Neuropsychologia**, 51(13), 2757-2769

13¶ Schuck, N.W., Doeller, C.F., Schjeide, B.-M., Bisenack, J., Frensch, P.A., Bertram, L. & Li, S.-C. *Aging and KIBRA/WWC1 genotype affect spatial memory processes in a virtual navigation task*. **Hippocampus**, 23(10), 919-930

12 Eppinger, B., Schuck, N.W., Nystrom, L.E., & Cohen, J.D. *Reduced striatal responses to positive reward prediction errors in older compared to younger adults*. **Journal of Neuroscience**, 33(24), 9905-9912

2012 11¶ Schuck, N.W., Gaschler, R., Keisler, A., & Frensch, P.A. *Position-item associations play a role in the acquisition of order knowledge in an implicit serial reaction time task*. **Journal of Experimental Psychology: Learning, Memory & Cognition**, 38, 440-456

10¶ Schuck, N.W., Gaschler, R., & Frensch, P. A. *Implicit learning of what comes when and where within a sequence: The time-course of acquiring serial position-item and item-item associations to represent serial order*. **Advances in Cognitive Psychology**, 8, 83-97

CONFERENCE PROCEEDINGS (peer reviewed)

2025 9 Verra, L., Wise, T., Zika, O., & Schuck, N.W. *Interaction of generalised aversive beliefs and avoidance behaviour*. **Proceedings of CogSci 2025**, 47

2025 8 Ren, X., Petzka, M. & Schuck, N.W. *Age-related differences in forming conjunctive memories of what, when and where*. **Proceedings of CogSci 2025**, 47

2024 7 Ren, X., Petzka, M. & Schuck, N.W. *A blocked learning curriculum reduces age-related deficits in memory*. **Proceedings of CogSci 2024**, 46

2018 6 Wu, C.M., Schulz, E., Garvert, M.M., Meder, B. & Schuck, N.W. *Connecting conceptual and spatial search via a model of generalization*. **Proceedings of CogSci 2018**, 40

2016 5 Cai M., Schuck, N.W., Pillow, J., Niv, Y. *Unbiased estimation of neural representation similarity structure*. **Neural Information Processing Systems**, 29

BOOK CHAPTERS

2025 4◕ Verra, L., Renz, F. & Schuck, N.W. *Neuroscience Methods for Investigating Brain Plasticity*. In Aron Barbey (Ed.) **The Oxford Handbook of Cognitive Enhancement and Brain Plasticity**, (pp. 259-78). Oxford University Press.

2024 3 Shenhav, A., Banich, M. T., Beste, C., Buschman, T. J., Friedman, N. P., Gratton, C., Koechlin, E., Schuck, N., Wang, X.-J., O'Doherty, J. *Integrative Psychological, Computational, and Mechanistic Approaches to Frontal Lobe Function*. In Marie T. Banich, Suzanne N. Haber, and Trevor W. Robbins. (Ed.) **The Frontal Cortex: Organization, Networks, and Function**, (pp. 225-262). MIT Press.

2018 2¶ Schuck, N.W., Wilson, R. & Niv, Y. *The role of orbitofrontal cortex in reinforcement learning and goal-directed decision making*. In R. Morris and Bornstein, A. (Ed.) **Understanding Goal-Directed Decision Making: Computations and Circuits**, (pp. 259-78). Elsevier.

2010 1 Burgess, C., Schuck, N.W. & Burgess, N. (2010) *Temporal neuronal oscillations can produce spatial phase codes*. In S. Dehaene and E. Brannon (Ed.), Attention & Performance XXIV **Space, Time and Number in the Brain: Searching for Evolutionary Foundations of Mathematical Thought**, (pp. 59-69). Elsevier.

INVITED TALKS (selection)

2026 **Institut du Cerveau (ICM) Paris** | *Motivation, Brain & Behavior (MBB) team (M Pessiglione)*
2025 **INSERM Cognitive Neuroimaging; NeuroSpin, Paris** | *UNICOG Meeting (S.Dehaene's lab)*
2025 **University Ghent** | *Keynote NeuroCog Conference*
2025 **University Hospital Hamburg-Eppendorf** | *HCNS Summer Conference*
2025 **Ernst Strungman Institute** | *Keynote Ringberg Retreat*
2025 **University College London** | *Institute of Cognitive Neuroscience*
2025 **Mount Sinai School of Medicine** | *Center for Computational Psychiatry*
2024 **Oxford University** | *Department of Experimental Psychology / Summerfield Lab*
2024 **University College London** | *Max Planck UCL Center for Comp. Psychiatry*
2024 **Princeton University** | *Princeton Neuroscience Insitute / Niv Lab*
2024 **Bernstein Center for Computational Neuroscience** | *BCCN PhD Lecture Series*
2024 **Max Planck Institute for Cognitive and Brain Sciences** | *Dept. of Psych. / Doeller Lab*
2023 **University Hospital Hamburg (UKE)** | *Cognitive Computational Neuroscience Seminar*
2023 **University of Trento** | *Centre for Mind/Brain sciences CIMEC*
2022 **Stanford University** | *Department of Psychology, Seminar series*
2022 **University of Tokyo** | *International Research Center for Neurointelligence*
2022 **Icahn School of Medicine at Mount Sinai** | *Department of Neuroscience*
2022 **Hamburg University** | *Department of Psychology*
2022 **University of Sussex** | *Sussex Neuroscience, Seminar series*
2021 **University of Zurich** | *Zurich Center for Neuroeconomics, Department Seminar*
2021 **Brown University** | *Department of Neuroscience, Nassar Lab Talk*
2021 **Ben-Gurion University** | *Zlotowski Center for Neuroscience, Department Seminar*
2020 **Oxford University** | *Neurotheory Seminar*
2020 **Transcontinental Computational Psychiatry Workgroup** | *Seminar*
2020 **Bernstein Center for Computational Neuroscience, Berlin** | *Department talk*
2019 **DZNE Magdeburg** | *Dept. Seminar Series*

2019	**Max Planck Institute for Human Cognitive & Brain Sciences** | *MIND Seminar*
2019	**Google Deepmind** | *Neuroscience Team – Tech talk*
2018	**Donders Institute** | *Donders Inst. for Brain, Cognition and Behaviour*
2018	**TU Dresden** | *Collaborative Research Center Volition and Control*
2017	**University College London** | *London Judgement & Decision Making Seminar*
2016	**New York University** | *Inst. for the Interdisciplinary Study of Decision Making*
2016	**University of Pennsylvania** | *Computational Neuroscience Initiative*
	Technical University Dresden | *Spring School "Volition and Cognitive Control"*

STUDENT ADVISORY ROLES / EXAMINER

Current

Postdoc Advisor
Marit Petzka
Shany Grossman (Minerva fellow)
Alexa Ruel (AvH fellow)
Xiangjuan Ren
Theo Schäfer
Alexander Nitsch

PhD Advisor
Fabian Renz (MPS Cog fellow)
Noa Hedrich (Einstein Center Fellow)
Elsa Kolbe (MPS Cog fellow)
Neele Elbersgerd (RTG Fellow)
Luianta Verra (MPRS LIFE fellow)

Completed

PhD Thesis
Nir Moneta (Dr.rer.nat, U Hamburg)
Anika Löwe (Dr.rer.nat, U Hamburg)
Lennart Wittkuhn (Dr.rer.nat, FU Berlin)
Christoph Koch (Dr.rer.nat, FU Berlin)

MA/BA Thesis
Josefine Seidel (Msc. U Hamburg)
Colleen Dollst (Msc. U Hamburg)
Karola Brixius (Msc. U Hamburg)
Elisa Tabibzada (Bsc, U Hamburg)
Karola Brixius (Msc, U Hamburg)
Enrico Hantel (Bsc., U Hamburg)
Elsa Kolbe (Msc. U Leipzig)
Luanta Verra (Msc. HU Berlin)
Noa Hedrich (Msc. FU Berlin)
Nir Moneta (Msc. FU Berlin)
Anika Löwe (Msc. FU Berlin)
Riley MacAuley (Senior, Princeton)
Kelsey McDonald (Senior, Princeton)

PhD Examiner/ Committee

Susanne Haridi (MPI Bio. Cybernetics)
Anna Spektor (Oxford)
Tatiana Butzke (UKE Hamburg)
Juliana Sporrer (UCL)
Alon Baram (Oxford)
Lara Wieland (Charite)
Juan Balaguer(Oxford)
Nicole Drummond(Princeton)

OTHER MENTORING ACTIVITIES

Since 2023	**Max Planck School of Cognition** | *Adjunct Fellow; advising lab rotations & PhD students*
Since 2023	**Goethe Universität Frankfurt Mentoring Programme** | *Mentor for Early Career Scientists*
Since 2018	**Thesis advisory committees/Examiner** | *Oxford, Charite, FU Berlin, DZNE, and others*
2020 – 2026	**UCL Imaging Neuroscience** | *Honorary Senior Researcher; secondary advisor PhD student*
2018 – 2023	**Einstein Center for Neurosciences** | *faculty; advising lab rotations & PhD students*
2018 – 2023	**Comp2Psych Research School** | *faculty; advising lab rotations & PhD students*
2018 – 2023	**LIFE Research School** | *faculty; advising lab rotations & PhD students*

MEDIA COVERAGE (selection)

2025	**Washington Post, NY Post, tagesschau.de (plus over 100 other news outlets)** | *Interviews and reporting on our sleep & insights study)*
2022	**Toutiao (one of China's largest mobile platforms)** | *Article on strategy shifts in children*
2021	**Die Wissenschaftsreporter** | *Interview in podcast about learning in the brain*
2019	**New Scientist** | *Interview about Science paper on replay*
2019	**Scientific American** | *Article about Science paper on replay*
2018	**Bayrischer Rundfunk (Radio)** | *Interview about work on fast decoding*
2015	**DER SPIEGEL (15/2015)** | *Interview about Neuron paper on strategy changes*
2015	**Berliner Zeitung** | *Article about Neuron paper on strategy changes*
2015	**Princeton Journal Watch** | *Article about Neuron paper on strategy changes*

TEACHING (full courses only)

Winter 2025	**Cognitive Neuroscience: Introduction** | *4 Lectures, Uni Hamburg, Dept. of Psychology*
	Replication & Reproducibility: Issues & Concepts | *Seminar, U Hamburg, Dept. of Psych*
Summer 2025	**Introduction to Artificial Neural Networks** | *Seminar, U Hamburg, Dept. of Psych.*
	Cognitive Neuroscience of Decision Making | *Seminar, U Hamburg, Dept. of Psych.*
Winter 2024	**Cognitive Neuroscience: Introduction** | *4 Lectures, U Hamburg, Dept. of Psychology*
Summer 2024	**Cognitive Neuroscience of Decision Making** | *Seminar, U Hamburg, Dept. of Psych.*
Winter 2023	**Cognitive Neuroscience: Introduction** | *4 Lectures, U Hamburg, Dept. of Psychology*
	Empirisch-Experimentelles Praktikum | *Seminar+Lecture, U Hamburg, Dept. of Psych.*
Winter 2021	**Statistical Methods I** | *Lecture, FU Berlin, Dept. of Psychology*
Summer 2021	**Statistical Methods II** | *Lecture, FU Berlin, Dept. of Psychology*
Winter 2020	**Introduction to Learning** | *Seminar, FU Berlin, Dept. of Psychology*
2015	**Neuroscience Junior Tutorials** | *Seminar, Princeton Neuroscience Institute*
2014-2015	**Matlab for Neuroscientists** | *Seminar, Princeton Neuroscience Institute*
2012	**Reinforcement Learning and Neural Network Models** | *Seminar, HU Berlin*

PROFESSIONAL ACTIVITIES & COMMITTEES

Journal Editor

Oxford Open Neuroscience | *Associate Editor, Since 2022*
Neuropsychologia | *Guest Editor, 2019/2020*

Reviewer (select.)

Science
Science Advances
Nature Neuroscience
Nature Human Behaviour
Nature Communications
eLife
PNAS
Cosyne (Conference)
Neurosci. & Biobehavioral Rev.
Perspectives on Psychological Science
Journal of Neuroscience
J Exp Psychology: General
Psychoneuroendocrinology
PLoS Comp. Biology
NeuroImage
Cerebral Cortex
Cortex
Scientific Reports
Neurobiology of Aging
Developmental Psychology
Experimental Brain Research

Grant Reviewer

Deutsche Forschungsgemeinschaft (DFG)
National Science Foundation (NSF)
European Union (ERC)
Wellcome Trust
US-Israel Binational Science Found. BSF
Medical Research Council (MRC)
Branco Weiss Foundation
Studienstiftung des Deutschen Volkes
Humboldt-Foundation

Institutional Service

Founding Member | *Bernsten Node Computational Neuroscience, 2025, Hamburg*
Speaker | *Mechanisms of Change (Emerging Fields), 2025, Hamburg*
Speaker | *Hamburg International Graduate School of Psychology, 2025, Hamburg*
Chair Programm Committee | *Cogn. Comp. Neuroscience Conference, 2024, MIT, USA*
Member Organizing Committee | *Psychologie und Gehirn, 2024, Hamburg, Germany*
Representative for Internationalisation | *Universität Hamburg, Since 2023*
Member Programm Committee | *Cogn. Comp. Neuroscience Conference, 2023, Oxford*
Selection Committee Research Group Leaders | *Max Planck Society, Member, 2021*
Ethics Review Board | *Max Planck Institute Human Development, 2018–2021*
Open Science Committee | *Max Planck Institute Human Development, 2018–2020*

REFERENCES

Yael Niv, Professor, Princeton University	yael@princeton.edu
Christian Doeller, Director, MPI for Hum. Cog. & Brain Sciences	doeller@cbs.mpg.de
Chris Summerfield, Professor, Oxford University	christopher.summerfield@psy.ox.ac.uk
Ulman Lindenberger, Director, MPI for Human Development	seklindenberger@mpib-berlin.mpg.de
Shu-Chen Li, Professor, Technical University Dresden	shu-chen.li@tu-dresden.de