

## Hirohito M. Kondo, Ph.D.

School of Psychology

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### Research Interest

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His research focuses on how the brain adeptly transforms a complex array of sensory inputs into coherent, meaningful representations. Despite the inherent ambiguity of auditory and visual signals—often obscured by spatial and temporal occlusions—he explores how we experience a perceptually stable world. This phenomenon raises critical questions about mechanisms of scene analysis in the brain. His work extends beyond sensory processing, probing broader cognitive functions such as attention and working memory. His primary research objective is to investigate individual differences in human perceptual abilities and to uncover overarching principles governing perceptual awareness. To achieve these goals, he employs cutting-edge methodologies, including psychophysics, functional magnetic resonance imaging (fMRI), magnetic resonance spectroscopy (MRS), and genotyping analysis. His recent research has focused extensively on individual variations in perceptual organization, sustained attention, and emotional processing.

### Education

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Apr 1997 – Mar 1999      **M.A. in Experimental Psychology**

Apr 1999 – July 2002      **Ph.D. in Experimental Psychology**

Kyoto University, Japan

Thesis: “The Role of Working Memory in High-Level Cognitive Functions”

Advisor: Prof. Naoyuki Osaka

### Academic Career

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Apr 2023 – Present      **Dean**, School of Psychology, Chukyo University, Japan

Apr 2021 – Present      **Head**, Division of Experimental Psychology, Chukyo University, Japan

Apr 2017 – Present	<b>Professor</b> , School of Psychology, Chukyo University, Japan
Apr 2017 – Mar 2021	<b>Visiting Researcher</b> , NTT Communication Science Laboratories, NTT Corporation, Japan
June 2016 – Mar 2017	<b>Collaborative Researcher</b> , National Institute for Physiological Sciences, National Institutes of Natural Sciences, Japan
Apr 2014 – Mar 2016	<b>Visiting Scholar</b> , United Graduate School of Child Development, Osaka University, Japan
Apr 2003 – Mar 2017	<b>Research Scientist</b> , NTT Communication Science laboratories, NTT Corporation, Japan
Apr 2002 – Mar 2003	<b>Postdoctoral Fellow</b> , Department of Psychology, Graduate School of Letters, Kyoto University, Japan
Jan 2000 – Mar 2002	<b>Research Fellow</b> , Japan Society for the Promotion of Science (JSPS)

## Grants

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\*Asterisks indicate ongoing projects.

*2022 – 2025	<b>JSPS KAKENHI grant</b> (no. 22K18659), “Probing Well-Being through Autonomous Sensory Meridian Response”, Principal Investigator (PI).
2022 – 2024	<b>European Commission, Horizon 2020 Marie Skłodowska-Curie Actions (MSCA) Individual Fellowships</b> (no. 101032112), “The Neural Dynamics of Perceptual Priors in Audition”, Fellow: Hao Tam Ho, Supervisors: Daniel Pressnitzer and Hirohito M. Kondo
2022 – 2024	<b>Brain Research Institute at Niigata University, Research grant</b> , “Perceptual Judgment and Alpha Oscillation”, PI.
2020 – 2024	<b>JSPS KAKENHI grant</b> (no. 20H01789), “Integrative Understanding of Neural Mechanisms of Perceptual and Attentional Fluctuations”, PI.
2022 – 2023	<b>KEYCOM Corporation, Research grant</b> , Co-PI (PI: Shinji Uebayashi)
2021 – 2022	<b>NTT Corporation, Research grant</b> , PI.
2017 – 2020	<b>JSPS KAKENHI grant</b> (no. 17K04494), “Models of Attention Based on Neurometabolite Levels”, Co-PI (PI: Ken Kihara).
2017 – 2018	<b>Asahi Group Holdings, Ltd., Research grant</b> , PI.
2017 – 2018	<b>CinemaRay Co., Ltd., Donated grant</b> , PIs: Kohske Takahashi and Hirohito M. Kondo.
2017 – 2018	<b>Institute for Advanced Collaborative Research at Chukyo University, Research grant</b> , “Probing Individual Differences in Perceptual Organization”, PI.
2016 – 2017	<b>JSPS Bilateral Programs</b> , “Theoretical and Experimental Approaches Towards Auditory

Scene Analysis”, PIs: Hirohito M. Kondo and Daniel Pressnitzer.

- 2009 – 2014      **JST CREST grant** (no. JPMJCR09T3), “Decoding and Controlling Implicit Inter-Personal Information”, Co-PI (PI: Makio Kashino).
- 2007 – 2009      **JSPS KAKENHI grant** (no. 19203032), “Influence of the Emotional and Social Brain in the Control of Working Memory”, Co-PI (PI: Naoyuki Osaka).
- 2003 – 2004      **NTT Communication Science Laboratories, Research grant**, “Attentional Control and Working Memory”, PI.
- 2000 – 2002      **Grant-in-Aid for JSPS Fellows** (no. 00J03371), “Relationship between Storage and Processing in Working Memory”, PI.

### *Fellowships and Awards*

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- May 2021      **NIDCR Building Bridges Award**, Association for Psychological Science
- Nov 2018      **Research Award**, Auditory Research Meeting Sponsored by Technical Committee of Psychological and Physiological Acoustics
- Jun 2010      **Excellent Presentation Award**, International College of Neuropsychopharmacology
- Dec 2008      **Best Presentation Award**, Japanese Psychonomic Society
- Dec 2000      **Best Presentation Award**, Japanese Psychonomic Society
- Jan 2000      **Research Fellow**, Japan Society for the Promotion of Science
- Oct 1999      **Best Presentation Award**, Japanese Psychonomic Society
- 1999      **Scholarships for Graduate Students**, Japan Student Services Organization
- 1992 – 1997      **Scholarships for Undergraduate Students**, Japan Student Services Organization

### *Bibliometrics*

Google Scholar and Web of Science (as of Apr 2025)

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Sum of Total Cited:	2,535
h-index:	21
i10-index:	35
Average Citation per Article:	48.8
Peer Reviews	64
Editor Records	57

## Publications

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### Preprints

6. Corriveau, A., Ke, J., Terashima, H., Kondo, H. M., & Rosenberg, M. D. (2024). Functional brain networks predicting sustained attention are not specific to perceptual modality. **bioRxiv**. <http://doi.org/10.1101/2024.05.15.594382>
5. Poerio, G., Tada, K., & Kondo, H. M. (2022). Similar but different: High prevalence of synesthesia in Autonomous Sensory Meridian Response (ASMR). **Research Square**. <http://doi.org/10.21203/rs.3.rs-1414172/v1>
4. Tada, K., Ezaki, T., & Kondo, H. M. (2021). The autonomous sensory meridian response activates the parasympathetic nervous system. **Research Square**. <http://doi.org/10.21203/rs.3.rs-1026254/v1>
3. Hasegawa, R., Tada, K., Yonemitsu, F., Ikeda, A., Yamada, Y., Takahashi, K., & Kondo, H. M. (2021). Current empirical research pre-registration and its practices: a tutorial on Open Science Framework (in Japanese). **PsyArXiv**. <http://doi.org/10.31234/osf.io/kvgyc>
2. Koumura, T., Nakatani, M., Liao, H.-I., & Kondo, H. M. (2019). Deep, soft, and dark sounds induce autonomous sensory meridian response. **bioRxiv**. <http://doi.org/10.1101/2019.12.28.889907>
1. Honda, S., Ishikawa, Y., Konno, R., Imai, E., Nomiyama, N., Sakurada, K., Koumura, T., Kondo, H., Furukawa, S., Fujii, S., & Nakatani, M. (2019). Proximal binaural sound can induce subjective frisson. **arXiv:1904.06851** <https://arxiv.org/abs/1904.06851>

### Articles in Refereed Journals

\*Asterisks indicate invited articles.

54. Wu, Y. L., Kondo, H. M. & Lin, I. F. (in preparation). Love and hate of triggers in autonomous sensory meridian response.
53. Kondo, H. M., & Liu, R. (submitted). Touch and tingles: How affective sensitivity shapes Autonomous Sensory Meridian Response (ASMR).
52. Hozaki, D., Ezaki, T., Poerio, G. L., & Kondo, H. M. (in press). More relaxing than nature? Effects of ASMR content and modality on self-reported and physiological measures of parasympathetic nervous system activation. **Neuroscience of Consciousness**
51. Corriveau, A., Ke, J., Terashima, H., Kondo, H. M., & Rosenberg, M. D. (2025). Networks predicting sustained attention are not specific to perceptual modality. **Network Neuroscience**, 9(1), 303-325. [https://doi.org/10.1162/netn\\_a\\_00430](https://doi.org/10.1162/netn_a_00430)
50. Hostler, T. J., Poerio, G. L., Nader, C., Mank, S., Lin, A. C., Villena-González, M., Plutzyk, N., Ahuja, N. K., Baker, D. H., Bannister, S., Barratt, E. L., Bedwell, S. A., Billot, P. E., Blakey, E., Cardini, F., Cash, D. K., Davis, N. J., Del Sette, B. M., Erfanian, M., Flockton, J. R., Fredborg, B., Gillmeister, H., Gray, E., Haigh, S. M., Heisick, L. L., McErlean, A. J., Breth Klausen, H., Kondo, H. M., Maas, F., Taylor Maurand, L.,

- McKay, L. S., Mozzoni, M., Navyte, G., Ortega-Balderas, J. A., Palmer-Cooper, E. C., Richard, C. A. H., Roberts, N., Romei, V., Schoeller, F., Shaw, S. D., Simner, J., Smith, S. D., Specker, E., Succi, A., Valtakari, N. V., Weinheimer, J., & Zehetgrube, J. (2024). Research priorities for autonomous sensory meridian response: an interdisciplinary Delphi study. **Multisensory Research**, 37(6-8), 499–528. <https://doi.org/10.1163/22134808-bja10136>
49. Hasegawa, Y., & Kondo, H. M. (2024). Progressive changes in visual perception from stereopsis to rivalry. **Frontiers in Psychology**, 15, 1472278. <https://doi.org/10.3389/fpsyg.2024.1472278>
48. Kondo, H. M., Oba, T., Ezaki, T., Kochiyama, T., Shimada, Y., & Ohira, H. (2024). Striatal GABA levels correlate with risk sensitivity in monetary loss. **Frontiers in Neuroscience**, 18, 1439656. **Research Topic: Subjective Well-Being and Human Decision Behaviors** <https://doi.org/10.3389/fnins.2024.1439656>
- \*47. Lin, I-F., & Kondo, H. M. (2024). Brain circuits in autonomous sensory meridian response and related phenomena. **Philosophical Transactions of the Royal Society B: Biological Sciences**, 379(1908), 20230252. <https://doi.org/10.1098/rstb.2023.0252>
- \*46. Terashima, H., Tada, K., & Kondo, H. M. (2024). Predicting tingling sensations induced by autonomous sensory meridian response (ASMR) videos based on sound texture statistics: a comparison to pleasant feelings. **Philosophical Transactions of the Royal Society B: Biological Sciences**, 379(1908), 20230254. <https://doi.org/10.1098/rstb.2023.0254>
- \*45. Poerio, G. L., Kondo, H. M., & Moore, B. C. J. (2024). Sensing and feeling: an overview. **Philosophical Transactions of the Royal Society B: Biological Sciences**, 379(1908), 20230242. **Theme: Sensing and Feeling: An Integrative Approach to Sensory Processing and Emotional Experience** <https://doi.org/10.1098/rstb.2023.0242>
- \*44. Kondo, H. M., Gheorghiu, E., & Pinheiro, A. (2024). Malleability and fluidity of time perception. **Scientific Reports**, 14, 12244. **Collection: Time Perception** <https://doi.org/10.1038/s41598-024-62189-7>
- \*43. Kondo, H. M., Hasegawa, R., Ezaki, T., Sakata, H., & Ho, H. T. (2024). Functional coupling between auditory memory and verbal transformations. **Scientific Reports**, 14, 3480. **Collection: Language Processing** <https://doi.org/10.1038/s41598-024-54013-z>
42. Kondo, H. M., Terashima, H., Kihara, K., Kochiyama, T., Shimada, Y., & Kawahara, J. I. (2023). Prefrontal GABA and glutamate-glutamine levels affect sustained attention. **Cerebral Cortex**, 33(19), 10441-10452. <https://doi.org/10.1093/cercor/bhad294>
41. Ueda, M., Tada, K., Hasegawa, R., & Kondo, H. M. (2023). Functional separability of sensory-processing sensitivity and interoception (in Japanese). **Japanese Journal of Psychology**, 93(6), 573-579. <https://doi.org/10.4992/jjpsy.93.22301>
40. Poerio, G., Tada, K., & Kondo, H. M. (2022). Similar but different: High prevalence of synesthesia in Autonomous Sensory Meridian Response (ASMR). **Frontiers in Psychology**, 13, 990565. **Research Topic: Rising Stars In: Personality and Social Psychology 2021** <https://doi.org/10.3389/fpsyg.2022.990565>

39. Tada, K., Hasegawa, R., & Kondo, H. M. (2022). Sensitivity to everyday sounds: ASMR, misophonia, and autistic traits (in Japanese). **Japanese Journal of Psychology**, 93(3), 263-269.  
<https://doi.org/10.4992/jjpsy.93.21319>
- \*38. Kondo, H. M., Terashima, H., Ezaki, T., Kochiyama, T., Kihara, K., & Kawahara, J. I. (2022). Dynamic transitions between brain states predict auditory attentional fluctuations. **Frontiers in Neuroscience**, 16, 816735. **Research Topic: Auditory Perception and Phantom Perception in Brains, Minds and Machines** <https://doi.org/10.3389/fnins.2022.816735>
37. Hasegawa, R., Tada, K., Yonemitsu, F., Ikeda, A., Yamada, Y., Takahashi, K., & Kondo, H. M. (2021). Current empirical research pre-registration and its practices: a tutorial on Open Science Framework (in Japanese). **Japanese Journal of Psychology**, 92(3), 188-196.  
<https://doi.org/10.4992/jjpsy.92.20217>
36. Koumura, T., Nakatani, M., Liao, H.-I., & Kondo, H. M. (2021). Dark, loud, and compact sounds induce frisson. **Quarterly Journal of Experimental Psychology**, 74(6), 1140-1152.  
<http://doi.org/10.1177/1747021820977174>
35. Terashima, H., Kihara, K., Kawahara, J. I., & Kondo, H. M. (2021). Common principles underlie the fluctuation of auditory and visual sustained attention. **Quarterly Journal of Experimental Psychology**, 74(4), 705-715. <https://doi.org/10.1177/1747021820972255>
34. Kondo, H. M., & Lin, I-F. (2020). Excitation-inhibition balance and auditory multistable perception are correlated with autistic traits and schizotypy in a non-clinical population. **Scientific Reports**, 10, 8171.  
<https://doi.org/10.1038/s41598-020-65126-6>
33. Honda, S., Ishikawa, Y., Konno, R., Imai, E., Nomiyama, N., Sakurada, K., Koumura, T., Kondo, H. M., Furukawa, S., Fujii, S., & Nakatani, M. (2020). Proximal binaural sound can induce subjective frisson. **Frontiers in Psychology**, 11, 316. <https://doi.org/10.3389/fpsyg.2020.00316>
- \*32. Kondo, H. M. & Kochiyama, T. (2018). Normal aging slows spontaneous switching in auditory and visual bistability. **Neuroscience**, 389, 152-160. **Special Issue: Sensory Sequence Processing in the Brain** <https://doi.org/10.1016/j.neuroscience.2017.04.040>
31. Kondo, H. M., Pressnitzer, D., Shimada, Y., Kochiyama, T., & Kashino, M. (2018). Inhibition-excitation balance in the parietal cortex modulates volitional control for auditory and visual multistability. **Scientific Reports**, 8, 14548. <https://doi.org/10.1038/s41598-018-32892-3>
30. Koizumi, A., Lau, H., Shimada, Y., & Kondo, H. M. (2018). The effects of neurochemical balance in the anterior cingulate cortex and dorsolateral prefrontal cortex on volitional control under irrelevant distraction. **Consciousness and Cognition**, 59, 104-111. <https://doi.org/10.1016/j.concog.2018.01.001>
- \*29. Takeuchi, T., Yoshimoto, S., Shimada, Y., Kochiyama, T., & Kondo, H. M. (2017). Individual differences in visual scene analysis by motion and associated neurotransmitter concentrations in the brain. **Philosophical Transactions of the Royal Society B: Biological Sciences**, 372(1714), 20160111.  
<https://doi.org/10.1098/rstb.2016.0111>
- \*28. Kondo, H. M., Farkas, D., Denham, S. L., Asai, T., & Winkler, I. (2017). Auditory multistability:

idiosyncratic perceptual switching patterns and neurotransmitter concentrations in the brain.

**Philosophical Transactions of the Royal Society B: Biological Sciences**, 372(1714), 20160110.

<https://doi.org/10.1098/rstb.2016.0110>

- \*27. Kondo, H. M., van Loon, A., Kawahara, J. I., & Moore, B. C. J. (2017). Auditory and visual scene analysis: an overview. **Philosophical Transactions of the Royal Society B: Biological Sciences**, 372(1714), 20160099. Theme: Auditory and Visual Scene Analysis  
<https://doi.org/10.1098/rstb.2016.0099>
- 26. Kihara, K., Kondo, H. M., & Kawahara, J. I. (2016). Differential contributions of GABA concentration in frontal and parietal regions to individual differences in attentional blink. **Journal of Neuroscience**, 36(34), 8895-8901. <https://doi.org/10.1523/JNEUROSCI.0764-16.2016>
- 25. Farkas, D., Denham, S. L., Bendixen, A., Tóth, D., Kondo, H. M., & Winkler, I. (2016). Auditory multistability: idiosyncratic perceptual switching patterns, executive functions and personality traits. **PLOS ONE**, 11, e0154810. <https://doi.org/10.1371/journal.pone.0154810>
- 24. Kihara, K., Takeuchi, T., Yoshimoto, S., Kondo, H. M., & Kawahara, J. I. (2015). Pupillometric evidence for the locus coeruleus-noradrenaline system facilitates attentional processing of action-triggered visual stimuli. **Frontiers in Psychology**, 6, 827. Research Topic: Perception, Action, and Cognition  
<https://doi.org/10.3389/fpsyg.2015.00827>
- 23. Kondo, H. M., Nomura, M. & Kashino, M. (2015). Different roles of the COMT and HTR2A genotypes in working memory subprocesses. **PLOS ONE**, 10, e0126511.  
<https://doi.org/10.1371/journal.pone.0126511>
- \*22. Kondo, H. M., Toshima, I., Pressnizer, D., & Kashino, M. (2014). Probing the time course of head-motion cues integration during auditory scene analysis. **Frontiers in Neuroscience**, 8, 170. Research Topic: Probing Auditory Scene Analysis <https://doi.org/10.3389/fnins.2014.00170>
- \*21. Toshima, I., Aoki, S., Kondo, H. M., Kashino, M., & Hirahara, T. (2013). Usefulness of acoustical telepresence robot for auditory psychophysics (in Japanese). **Journal of the Robotics Society of Japan**, 31, 788-796. <https://doi.org/10.7210/jrsj.31.788>
- 20. Koizumi, A., Kitagawa, N., Kondo, H. M., Kitamura, M. S., Sato, T., & Kashino, M. (2013). Serotonin transporter gene-linked polymorphism affects detection of facial expressions. **PLOS ONE**, 8, e59074. <https://doi.org/10.1371/journal.pone.0059074>
- 19. Kondo, H. M., Kitagawa, N., Kitamura, M. S., Koizumi, A., Nomura, M., & Kashino, M. (2012). The separability and commonality of auditory and visual bistable perception. **Cerebral Cortex**, 22, 1915-1922. <https://doi.org/10.1093/cercor/bhr266>
- 18. Kondo, H. M., Pressnizer, D., Toshima, I., & Kashino, M. (2012). The effects of self-motion on auditory scene analysis. **Proceedings of the National Academy of Sciences of the United States of America**, 109, 6775-6780. <https://doi.org/10.1073/pnas.1112852109>
- \*17. Kashino, M., & Kondo, H. M. (2012). Functional brain networks underlying perceptual switching: auditory streaming and verbal transformations. **Philosophical Transactions of the Royal Society B:**



**Biological Sciences**, 367, 977-987. Theme: Multistability in Perception: Binding Sensory Modalities  
<https://doi.org/10.1098/rstb.2011.0370>

16. Koizumi, A. Kitagawa, N., Kitamura, M. S., Kondo, H. M., Sato, T. & Kashino, M. (2010). Serotonin transporter gene and inhibition of conflicting emotional information. **NeuroReport**, 21, 422-426.  
<https://doi.org/10.1097/WNR.0b013e32833833f0>
15. Kondo, H. M., & Kashino, M. (2009). Involvement of the thalamocortical loop in the spontaneous switching of percepts in auditory streaming. **Journal of Neuroscience**, 29, 12695-12701.  
<https://doi.org/10.1523/JNEUROSCI.1549-09.2009>
14. Kondo, H. M., & Kashino, M. (2007). Neural mechanisms of auditory awareness underlying perceptual changes. **NeuroImage**, 36, 123-130. <https://doi.org/10.1016/j.neuroimage.2007.02.024>
13. Morishita, M., Kondo, H., Ashida, K., Otsuka, Y., & Osaka, N. (2007). Predictive power of working memory task for reading comprehension: an investigation using reading span test (in Japanese). **Japanese Journal of Psychology**, 77, 495-503. <https://doi.org/10.4992/jjpsy.77.495>
12. Otsuka, Y., Osaka, N., Morishita, M., Kondo, H., & Osaka, M. (2006). Decreased activation of anterior cingulate cortex in the working memory of the elderly. **NeuroReport**, 17, 1479-1482.  
<https://doi.org/10.1097/01.wnr.0000236852.63092.9f>
11. Kondo, H., Osaka, N., & Osaka, M. (2004). Cooperation of the anterior cingulate cortex and dorsolateral prefrontal cortex for attention shifting. **NeuroImage**, 23, 670-679.  
<https://doi.org/10.1016/j.neuroimage.2004.06.014>
10. Osaka, N., Osaka, M., Morishita, M., Kondo, H., & Fukuyama, H. (2004). A word expressing affective pain activates anterior cingulate cortex in the human brain: an fMRI study. **Behavioural Brain Research**, 153, 123-127. <https://doi.org/10.1016/j.bbr.2003.11.013>
9. Kondo, H., & Osaka, N. (2004). Susceptibility of spatial and verbal working memory to demands of the central executive. **Japanese Psychological Research**, 46, 86-97.  
<https://doi.org/10.1111/j.0021-5368.2004.00239.x>
8. Osaka, N., Osaka, M., Kondo, H., Morishita, M., Fukuyama, H., & Shibasaki, H. (2004). The neural basis of executive function in working memory: an fMRI study based on individual differences. **NeuroImage**, 21, 623-631. <https://doi.org/10.1016/j.neuroimage.2003.09.069>
7. Kondo, H., Morishita, M., Osaka, N., Osaka, M., Fukuyama, H., & Shibasaki, H. (2004). Functional roles of the cingulo-frontal network in performance on working memory. **NeuroImage**, 21, 2-14.  
<https://doi.org/10.1016/j.neuroimage.2003.09.046>
6. Otsuka, Y., Morishita, M., Kondo, H., & Osaka, N. (2003). Relationship between reading comprehension and inhibitory mechanism in working memory (in Japanese). **Japanese Journal of Psychonomic Science**, 21, 131-136. <https://doi.org/10.14947/psychono.KJ00004414157>
5. Osaka, N., Osaka, M., Kondo, H., Morishita, M., Fukuyama, H., & Shibasaki, H. (2003). An emotion-based facial expression word activates laughter module in the human brain: a functional magnetic resonance imaging study. **Neuroscience Letters**, 340, 127-130.



[https://doi.org/10.1016/S0304-3940\(03\)00093-4](https://doi.org/10.1016/S0304-3940(03)00093-4)

4. Osaka, M., Osaka, N., Kondo, H., Morishita, M., Fukuyama, H., Aso, T., & Shibasaki, H. (2003). The neural basis of individual differences in working memory capacity: an fMRI study. **NeuroImage**, 18, 789-797. [https://doi.org/10.1016/S1053-8119\(02\)00032-0](https://doi.org/10.1016/S1053-8119(02)00032-0)
3. Kondo, H., Morishita, M., Ashida, K., Otsuka, Y., & Osaka, N. (2003). Reading comprehension and working memory: structural equation modeling approach (in Japanese). **Japanese Journal of Psychology**, 73, 480-487. <https://doi.org/10.4992/jjpsy.73.480>
2. Kondo, H. & Osaka, N. (2000). Effect of concreteness of target words on verbal working memory: an evaluation using Japanese version of reading span test (in Japanese). **Japanese Journal of Psychology**, 71, 51-56. <https://doi.org/10.4992/jjpsy.71.51>
1. Kondo, H., Morishita, M., & Osaka, N. (2000). Verbal working memory and reading span test (in Japanese). **Japanese Psychological Review**, 42, 506-523. [https://doi.org/10.24602/sjpr.42.4\\_506](https://doi.org/10.24602/sjpr.42.4_506)

## Book

1. Nakatani, M., Yamada, M., & Kondo, H.M. (2023). **Tingling Wonders in the Brain** (in Japanese). Tokyo: Iwanami Shoten, Publisher.

## Book Section

1. Kashino, M., Okada, M., Mizutani, S., Davis, P., & Kondo, H.M. (2007). The dynamics of auditory streaming: psychophysics, neuroimaging, and modeling. In: Kollmeier, B., Klump, G., Hohmann, V., Langemann, U, Mauermann, M, Uppenkamp, S, Verhey, J. (Eds.), **Hearing - From Sensory Processing to Perception** (pp.275-283). Berlin: Springer.

## Conference Presentations (international only)

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### Talks and Posters

\*Asterisks indicate invited talks.

34. Kondo, H. M., Terashima, H., Kihara, K., Kochiyama, T., & Kawahara, J. I. (October 2024). Prefrontal GABA and Glx levels correlate with auditory and visual sustained attention (**Refereed Presentation**). **Poster Presented at the 2024 APS Global Psychological Science Summit**, online.
- \*33. Wu, Y.-L., Kondo, H. M., & Lin I-F. (October 2022). The correlation between misophonia and autonomous sensory meridian response-induced negative mood changes. **Paper Presented at the 24th International Congress on Acoustics**, Gyeongju, Korea. Invitation by Dr. Yoshiharu Soeta & Alessia Frescura
- \*32. Wu, Y.-L., Kondo, H. M., & Lin I-F. (December 2021). Sounds and emotion: the relationship between

- ASMR and misophonia among Taiwanese. **Paper Presented at the 3rd Japan-Taiwan Symposium on Psychological and Physiological Acoustics**, online. Invitation by Dr. Hiroko Terasawa
31. Kondo, H. M., Tada, K., & Ezaki, T. (May 2021). The autonomous sensory meridian response activates the parasympathetic nervous system (**Refereed Presentation**). **Poster Presented at the 2021 Association for Psychological Science Virtual Convention**, online. **NIDCR Building Bridges Award**
30. Terashima, K., Kihara, K., Kawahara, J. I., & Kondo, H. M. (January 2020). Auditory sustained attention fluctuates similarly to visual sustained attention. **Poster Presented at the 43rd Association for Research in Otolaryngology MidWinter Meeting**, San Jose, CA, USA.
- \*29. Kondo, H. M., Pressnitzer, D., Toshima, I., & Kashino, M. (November 2016). Effects of source- and head-motion on auditory perceptual organization. **The 5th Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan**, Honolulu, HI, USA. Invitation by Dr. Griffin D. Romigh & Dr. Douglas S. Brungart
- \*28. Kondo, H. M. (June 2016). Neural mechanisms of auditory and visual scene analysis. **CNRS-NTT Joint Seminar 2016**, Fontainebleau, France. Invitation by Dr. Daniel Pressnitzer
27. Takeuchi, T., Yoshimoto, S., Shimada, Y., Kochiyama, T., & Kondo, H. M. (October 2015). Individual differences in visual motion perception and the associated excitatory and inhibitory neurotransmitter concentrations in the brain. **Poster Presented at the Optical Society of America's Fall Vision Meeting 2015**, San Jose, CA, USA.
- \*26. Kondo, H. M. (June 2015). Sensory-perceptual transformations for auditory scene analysis. **Paper Presented at the 9th International Conference on Complex Medical Engineering**, Okayama, Japan. Invitation by Dr. Koji Abe
25. Kihara, K., Takeuchi, T., Yoshimoto, S., Kondo, H. M., & Kawahara, J. I. (May 2014). The locus coeruleus-noradrenaline system facilitates attentional processing of action-triggered visual stimuli. **Poster Presented at Vision Sciences Society Meeting 2014**, St. Pete Beach, FL, USA.
24. Kondo, H. M., Pressnitzer, D., Toshima, I., & Kashino, M. (December 2013). Effects of sound motion and head motion on the resetting of auditory streaming. **Poster Presented at the 2nd Meeting of UCL-NTT Collaboration "Deep Brain Communication" Project**, Atsugi, Japan.
- \*23. Toshima, I., Kondo, H. M., Pressnitzer, D. & Kashino, M. (March 2013). Evaluating the effect of head motion on auditory streaming using an acoustical telepresence robot: TeleHead. **Poster Presented at Final Symposium on JST-ANR Binaural Active Audition for Humanoid Robots**, Kyoto, Japan
- \*22. Kondo, H. M., Pressnitzer, D., Toshima, I., & Kashino, M. (May 2012). Effect of source-motion and self-motion on the resetting of auditory scene analysis. **Paper Presented at Acoustics 2012**, Hong Kong, China. Invitation by Dr. Mounya Elhilali
- \*21. Kondo, H. M. (November 2011). Sensory-perceptual transformations for auditory scene analysis. **Paper Presented at NTT-ENS Workshop 2011**, Paris, France. Invitation by Dr. Alain de Cheveigné
20. Koizumi, A., Kitagawa, N., Suzuki, M. K., Kondo, H. M., Sato, T. & Kashino, M. (July 2011). The serotonin transporter gene and gender affect detection of facial expression. **Poster Presented at the**

**International Society for Research on Emotion 2011 Conference**, Kyoto, Japan.

19. Kondo, H. M., Kitagawa, N., Kitamura, M. S., Koizumi, A., Nomura, M., & Kashino, M. (June 2011). Separability and commonality of auditory and visual bistable perception. **Poster Presented at the 15th Association for the Scientific Study of Consciousness**, Kyoto, Japan.
18. Nomura, M., Kondo, H. M., & Kashino, M. (June 2010). Impulsive-related human prefrontal brain activation during Go/No-go task is modulated by COMT Val158Met polymorphism: an fMRI study. **Paper presented at the International College of Neuropsychopharmacology 2010**, Hong Kong, China. **JSNP Excellent Presentation Award**
17. Kashino, M., Kondo, H. M., Kitagawa, N., Kitamura, M. S., & Nomura, M. (February 2010). The effects of the catechol-O-methyltransferase (COMT) Val<sup>158</sup>Met polymorphism on auditory and visual bistable perception. **Paper Presented at the 33rd Association for Research in Otolaryngology**, Anaheim, CA, USA.
16. Koizumi, A., Kitagawa, N., Suzuki, M. K., Kondo, H. M., & Kashino, M. (August 2009). The serotonin transporter polymorphism (5HTTLPR) affects behavioral performance of an emotional face-word Stroop task. **Poster Presented at the International Society for Research on Emotion 2009 Conference**, Leuven, Belgium.
15. Kitagawa, N., Suzuki, M. K., Kondo, H. M., Nomura, M., & Kashino, M. (August 2008). Perceptual transitions in bistable perception occur correlatively between vision and hearing. **Poster Presented at the 31st European Conference of Visual Perception**, Utrecht, Netherlands.
14. Kashino, M., Kondo, H. M., & Okada, M. (June 2008). Perceptual dynamics of auditory streaming and its neural correlates. **Paper Presented at Acoustics 2008**, Paris. **Lay Language Paper**
13. Tsubomi, H., Kondo, H. M., & Watanabe, K. (May 2008). Common capacity limit for visual perception and working memory. **Poster Presented at Vision Sciences Society Meeting 2008**, Naples, FL, USA.
12. Nomura, M., Kondo, H. M., & Kashino, M. (August 2007). 5-HT<sub>2A</sub> receptor gene polymorphism can explain ventrolateral prefrontal cortex activation to monetary during Go/no-go task. **Poster Presented at the 30th European Conference of Visual Perception**, Arezzo, Italy.
11. Kashino, M., Okada, M., Mizutani, S., Davis, P., & Kondo, H. M. (August 2006). The dynamics of auditory streaming: psychophysics, neuroimaging, and modeling. **Paper Presented at the International Symposium on Hearing 2006**, Kloppenburg, Germany.
10. Nomura, M., Kondo, H. M., & Kashino, M. (June 2006). 5-HT<sub>2A</sub> receptor gene polymorphism modulates activation in the human ventrolateral frontal lobe during Go/No-go task. **Poster Presented at the 12th Human Brain Mapping**, Florence, Italy.
9. Kondo, H., & Kashino, M. (February 2005). Distributed brain activation involved in the changes of auditory perceptual organization: an fMRI study on the verbal transformation illusion. **Poster Presented at the 28th Association for Research in Otolaryngology**, New Orleans, LA, USA.
8. Otsuka, Y., Kondo, H., Morishita, M., & Osaka, N. (August 2004). Aging effect on the neural basis of controlled attention in working memory. **Poster Presented at the 2nd International Conference on**

**Working Memory**, Kyoto, Japan.

7. Kondo, H., Morishita, M., Osaka, N., Osaka, M., Fukuyama, H., & Shibasaki, H. (August 2004). The modulation of the cingulo-prefrontal network for verbal and visuospatial working memory: an fMRI study. **Poster Presented at the 2nd International Conference on Working Memory**, Kyoto, Japan.
6. Osaka, N., Osaka, M., Kondo, H., Morishita, M., Fukuyama, H., & Shibasaki, H. (November 2003). Neural basis of executive function in working memory: an individual difference in reading span. **Poster Presented at the 33rd Annual Meeting of the Society for Neuroscience**, New Orleans, LA, USA
5. Kondo, H. (October 2003). Cingulo-prefrontal network and working memory. **Paper Presented at NTT-UCL Joint Workshop on Human Information Processing 2003**, Kyoto, Japan.
4. Osaka, N., Kondo, H., Morishita, M., Osaka, M., Fukuyama, H., Aso, T., & Shibasaki, H. (July 2003). Executive function based an ACC-PFC network in working memory: an individual difference-based fMRI study. **Poster Presented at the 6th IBRO World Congress of Neuroscience**, Prague, Czech.
3. Kondo, H., & Osaka, N. (September 2002). Sensitivity of visual and spatial working memory to demands of central executive. **Poster Presented at the 1st European Working Memory Symposium**, Ghent, Belgium.
2. Kondo, H., & Osaka, N. (July 2001). Selective interference between visual and spatial working memory. **Poster Presented at the 3rd International Conference on Memory**, Valencia, Spain.
1. Osaka, N., Kondo, H., & Morishita, M. (April 1998) Blindsight in transparent motion perception. **Paper Presented at Toward a Science of Consciousness 1998 "Tucson III"**, Tucson, AZ, USA.

## Professional Activities

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**Organizer**

June 14-16, 2016      **CNRS-NTT Joint Seminar**, "Theoretical and Experimental Approaches Towards Auditory Scene Analysis" (together with Daniel Pressnitzer), Fontainebleau, France

**Editorial Service**

Aug 2022 – Present      **Associate Editor**, *Frontiers in Neuroscience*

Aug 2022 – Present      **Associate Editor**, *Frontiers in Psychology*

Oct 2021 – Present      **Guest Editor**, *Scientific Reports*

**Collection of Visual Attention** (together with Geoffrey M. Ghose and Chiara Della Libera), coming soon

**Collection of Time Perception** (together with Elena Gheorghiu and Ana Pinheiro), published in 2022

May 2019 – Present	<b>Editorial Board</b> , <i>Scientific Reports</i>
Jun 2023 – Aug 2024	<b>Lead Guest Editor</b> , <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> <b>Special Issue on Sensing and Feeling: An Integrative Approach to Sensory Processing and Emotional Experience</b> (together with Brian C. J. Moore and Giulia L. Poerio), published in 2024
Dec 2021 – Aug 2022	<b>Editorial Board</b> , <i>Frontiers in Neuroscience</i>
Dec 2021 – Aug 2022	<b>Editorial Board</b> , <i>Frontiers in Psychology</i>
Feb 2016 – Feb 2017	<b>Lead Guest Editor</b> , <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> <b>Special Issue on Auditory and Visual Scene Analysis</b> (together with Anouk M. van Loon, Jun-Ichiro Kawahara, and Brian C. J. Moore), published in 2017

### Service to the University

Apr 2023 – Present	<b>Dean</b> , School of Psychology, Chukyo University
Apr 2021 – Present	<b>Head</b> , Division of Experimental Psychology, Chukyo University
July 2020 – Mar 2023	<b>Member</b> , Scientific Advisory Board, Chukyo University
Apr 2018 – Mar 2023	<b>Vice-Chair</b> , Research Ethics Committee of School of Psychology, Chukyo University

### Service to the Scientific and Social Communities

Mar 2021 – Jun 2024	<b>Member</b> , Japanese Association for the Advancement of Science (JAAS)
Nov 2020 – Dec 2023	<b>Executive Board Member</b> , Japanese Psychonomic Society

### Media Presentation

Sptember13, 2020	Television interview on the topic of “ASMR” on the show “What is Sound for Us?”, BS Fuji. <a href="https://youtu.be/wKCDmBW9vIM">https://youtu.be/wKCDmBW9vIM</a> (Trailer)
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### Ad-hoc Journal Reviewer

Acoustical Science and Technology  
Biological Psychology  
Brain and Behavior  
Brain Imaging and Behavior

Brain Research  
Cerebral Cortex  
Cognitive Neurodynamics  
Cognitive Processing  
Consciousness and Cognition  
Cortex  
Current Medical Imaging Reviews  
Depression and Anxiety  
European Journal of Neuroscience  
Frontiers in Auditory Cognitive Neuroscience  
Frontiers in Consciousness Research  
Frontiers in Neuroscience  
Frontiers in Psychiatry  
Frontiers in Psychology  
Frontiers in Systems Neuroscience  
Hearing Research  
International Journal of Neuropsychopharmacology  
International Journal of Psychology  
IEEE Transactions on Biomedical Engineering  
Japanese Psychological Research  
Journal of Cognitive Neuroscience  
Journal of Medical Internet Research  
Journal of Neuroscience Methods  
Journal of Vision  
Nature Communications  
NeuroImage  
Neuroscience  
Neuroscience of Consciousness  
PeerJ  
Perception  
Personality and Individual Differences  
Philosophical Transactions of the Royal Society B  
Physiology & Behavior  
PLOS ONE  
Psychologia

Psychophysiology

Schizophrenia Research

Scientific Data

Scientific Reports

The Journal of Neuroscience

Transactions of the Virtual Reality Society of Japan

### **Grant Reviewer**

Dec 2020 – Nov 2023      Grant-in-Aid for Scientific Research (KAKENHI), JSPS, Japan

Dec 2019      Present German-Israeli Project Cooperation (DIP), Israel

### **Membership in Scientific Societies**

American Psychological Association (Invited Member)

Association for Psychological Science (Invited Member)

Japan Neuroscience Society

Japanese Psychological Association

Japanese Psychonomic Society

Society for Neuroscience