

## **Hisashi Nakao**

Professor, Department of Anthropology and Philosophy, Nanzan University, Nagoya, Japan. Email: hisashinakao@gmail.com

### **Areas of Specialization**

Philosophy, cultural evolution, theoretical archaeology/anthropology

### **Academic positions**

2024-present Professor, Department of Anthropology and Philosophy, Nanzan University

2018-2023 Associate Professor, Department of Anthropology and Philosophy, Nanzan University

2015-2018 Assistant Professor (Senior Lecturer 2017-2018), Yamaguchi University

2013-2015 Assistant Professor, School of Advanced Studies, The Graduate University for Advanced Studies

### **Education**

2013 Ph.D. Department of Philosophy and History of Science, Graduate School of Letters, Kyoto University (Advisor: Tetsuji Iseda).

2012 Visiting scholar, Department of Philosophy, York University (Advisor: Kristin Andrews)

2010-2011 Visiting scholar, Department of History and Philosophy of Science, University of Pittsburgh (Advisor: Edouard Machery)

2010-2011 Post-doctoral student, Department of Philosophy and History of Science, Graduate School of Letters, Kyoto University

2007-2010 Doctorial course, Department of Philosophy and History of Science, Graduate School of Letters, Kyoto University

2005-2007 MA. Department of Philosophy and History of Science, Graduate School of Letters, Kyoto University

2001-2005 BA. Department of Philosophy and History of Science, Kyoto University

## Grants and Fellowships

- 2024-2028 Exploring cultural evolutionary dynamics via multi-dimensional representation and modeling of archaeological and anthropological data (PI, Grant-in-Aid for Transformative Research Areas).
- 2021-2024 Natural philosophy of the evolution of warfare and morality. (PI, Grant-in-Aid for Scientific Research (C), No. 20K00019).
- 2019-2023 Integrative studies of anthropological, archaeological, and cognitive evidence through a 3D database construction and mathematical analyses and modeling (PI, Grant-in-Aid for Scientific Research on Innovative Areas (Research in a proposed research area), No. 19H05738).
- 2016-2020 Philosophy and history of archaeological theory and practice (PI, Grant-in-Aid for Encouragement of Young Scientists (B) No.16K16685).
- 2014-2016 Philosophical investigations of empirical research on empathy (PI, JSPS Grant No. 26118504).
- 2011-2014 JSPS Research Fellow (PD), Department of Systems and Social Informatics, Graduate School of Information Science, Nagoya University
- 2009-2011 JSPS Research Fellow (DC2), Department of Philosophy and History of Science, Graduate School of Letters, Kyoto University

## Articles (English)

1. Nakao, H., Kaneda, A., Tamura, K., Noshita, K., Yoshida, M., and Nakagawa, T. submitted. Resilience to environmental changes in the prehistoric hunter gatherers of the Japanese archipelago: Continuous and widespread interactions in the Jomon society via geometric morphometrics on 3D data of human crania.
2. Noshita, K., Nakagawa, T., Kaneda, A., Tamura, K., and Nakao, H. 2025. The cultural transmission of Ongagawa style pottery and spread of agriculture in the prehistoric Japan: Quantitative analysis on 3D data of archaeological pottery in the early Yayoi period. *Journal of the Royal Society Interface*, 22: 20240889. <https://doi.org/10.1098/rsif.2024.0889>
3. Nakao, H., Kaneda, A., Tamura, K., Noshita, K., and Nakagawa, T. 2024 Macro-scale population patterns in the Kofun period of the Japanese archipelago: Quantitative analysis on a larger sample of three-dimensional data from ancient human crania. *Humans*, 4(2), 131–147. <https://doi.org/10.3390/humans4020008>

4. Maikuma, M. and Nakao, H. 2024. Cultural evolution of ritual practice in prehistoric Japan: The *kitamakura* hypothesis is examined. *Letters on Evolutionary and Behavioral Science*, 15(1), 1–8. <https://doi.org/10.5178/lebs.2024.114>.
5. Nakao, H., Nakagawa, T., Kaneda, A., Noshita, K., and Tamura, K. 2023. Demic diffusion of the Yayoi people in the Japanese archipelago. *Letters on Evolutionary and Behavioral Science*, 14(2), 58–64. <https://doi.org/10.5178/lebs.2023.111>.
6. Nakao, H. 2023. Cultural identity and intergroup conflicts: Testing parochial altruism model through archaeological data. *Annals of the Japan Association for Philosophy of Science* 32: 75–87. [https://doi.org/10.4288/jafpos.32.0\\_75](https://doi.org/10.4288/jafpos.32.0_75)
7. Nakao, H., Nakagawa, T., and Yoshida, M. 2022. 3D data of human skeletal remains acquired by two kinds of laser scanners: Einscan Pro HD and Creaform HandySCAN BLACK™ | Elite. *Journal of the Nanzan Academic Society Humanities and Natural Sciences*, 24: 309–314.
8. Kaneda, A., Nakagawa, T., Tamura, K., Noshita, K., and Nakao, H. 2022. A proposal of a new automated methods for SfM/MVS 3D measurement through comparisons of 3D data by SfM/MVS and handheld laser scanners. *PLOS One*, 17(7): e0270660. <https://doi.org/10.1371/journal.pone.0270660>.
9. Nakagawa, T., Tamura, K., Yamaguchi, Y., Matsumoto, N., Matsugi, T., and Nakao, H. 2021. Population pressure and prehistoric violence in the Yayoi period of Japan. *Journal of Archaeological Science*, 132: 105420. <https://doi.org/10.1016/j.jas.2021.105420>
10. Nakao, H., Nakagawa, T., Tamura, K., Yamaguchi, Y., Matsumoto, N., and Matsugi, T. 2020. Climate change and violence in the Jomon period. Schug, G. R. (ed.) *The Routledge Handbook of the Bioarchaeology of Environmental Change* (pp. 364–376), New York: Routledge.
11. Nakao, H. 2018. A quantitative history of Japanese archaeology and natural science. *Japanese Journal of Archaeology*, 6(1): 3–22.
12. Nakagawa, T., Nakao, H., Tamura, K., Arimatsu, Y., Matsumoto, N., and Matsugi, T. 2017. Violence and warfare in the prehistoric Japan. *Letters on Evolutionary and Behavioral Science*, 8(1), 8–11. <https://doi.org/10.5178/lebs.2017.55>
13. Nakao, H., Tamura, K., Arimatsu, Y., Nakagawa, T., Matsumoto, N., and Matsugi, T. 2016. Violence in the prehistoric period of Japan: the spatiotemporal pattern of skeletal evidence for violence in the Jomon period. *Biology Letters*, 12: 20160028.

<https://doi.org/10.1098/rsbl.2016.0028>

14. Sugawara, Y. and Nakao, H. 2015. What's new with the mechanistic philosophy? Comments on In *Search of mechanisms: Discoveries across life sciences*. *Taiwanese Journal for Studies of Science, Technology and Medicine*, 21: 233–240.
15. Yoshida, Y. and Nakao, H. 2015. Evo-devo as a motley aggregation: Methodological and theoretical diversity in the 1980s. *Biological Theory*, 10: 156–166. <https://doi.org/10.1007/s13752-014-0197-4>
16. Nakao, H. and Andrews, K. 2014. Ready to learn or ready to teach: A critique to the natural pedagogy theory. *Review of Philosophy and Psychology*, 5(4): 465–483. <https://doi.org/10.1007/s13164-014-0187-2>
17. Nakao, H. 2013. Why the attribution of propositional beliefs and desires evolve? In H. Nakao (ed.) *Proceedings of the CAPE International Workshops, 2012 (CAPE Studies in Applied Philosophy & Ethics Series Vol.1)*, pp. 163–171.
18. Yoshinari, Y. and Nakao, H. 2013. Overlooked elements in the history of evo-devo: Studies of epigenetics in the 80s. In H. Nakao (ed.) *Proceedings of the CAPE International Workshops, 2012 (CAPE Studies in Applied Philosophy & Ethics Series Vol.1)*, pp. 39–49.
19. Sugawara, Y. and Nakao, H. 2013. Mechanistic stance: An epistemic norm among scientists. In H. Nakao (ed.) *Proceedings of the CAPE International Workshops, 2012 (CAPE Studies in Applied Philosophy & Ethics Series Vol.1)*, pp. 50–59.
20. Nakao, H. and Machery, E. 2012. The evolution of punishment. *Biology and Philosophy*, 27(6): 833–850. <https://doi.org/10.1007/s10539-012-9341-3>
21. Nakao, H. and Itakura, S. 2009. An integrated view of empathy: Psychology, philosophy, and neuroscience. *Integrative Psychological and Behavioral Science*, 43 (1): 42–52. <https://doi.org/10.1007/s12124-008-9066-7>

#### Articles (Japanese, selected)

1. 中尾央. 2024. 弥生時代中期北部九州大型甕棺の楕円フーリエ解析：甕棺形状の時空間動態について. 『日本考古学』 59: 21–39.
2. 中尾央・田村光平・中川朋美. 2023. 人間進化における集団間紛争：偏狭な利他性モデルを中心に. 『心理学評論』 65(2):119–134. [https://doi.org/10.24602/sjpr.65.2\\_119](https://doi.org/10.24602/sjpr.65.2_119)

3. 中尾央. 2020. 日本考古学の理論的・哲学的基礎：発掘報告書と型式（学）を中心に. 『旧石器研究』 16: 1–9.
4. 中川朋美・中尾央. 2017. 人骨から見た暴力と戦争—国外での議論を中心に—. 『日本考古学』 44: 65–77.
5. 中尾央・後藤和宏. 2015. メタ認知研究の方法論的課題. 『動物心理学研究』 65(1): 45–58. <https://doi.org/10.2502/janip.65.1.1>
6. 中尾央. 共感・共感的配慮と道徳性. 『心理学評論』 58(2):236–248. [https://doi.org/10.24602/sjpr.58.2\\_236](https://doi.org/10.24602/sjpr.58.2_236)

### Books (English)

1. Nakao, H. Ed. 2013. *Proceedings of the CAPE International Workshops, 2012 (CAPE Studies in Applied Philosophy & Ethics Series Vol.1)*. Kyoto: CAPE Publications.

### Conference Presentations (English)

1. Tamura, K., Nakao, H., et al. A new dataset of three-dimensional models in prehistoric Japan. Cultural Evolution Society Annual Meeting, 2022/09/01.
2. Nakao, H. et al. The cause of warfare in the middle Yayoi period of the Japanese archipelago. WAC-9, 2022/07/07.
3. Nakao, H. Warfare in the Neolithic: Comments on Project “Neolithic Civilizations of Eurasia: Jomon - Origin, Early Stages, Local Peculiarities”. International Workshop “Early Civilizations from the Viewpoints of the Northeast Eurasian Prehistory: A New Perspective”, Research Institute for Humanity and Nature, 2019/11/04.
4. Nakao, H. The evolution of altruism and inter-group conflict. Institute of Philosophy, Seoul National University, 2019/09/18.
5. Tamura, K., Nakao, H., Takata, K., Hashimoto, T. and Matsugi, T. Quantifying morphological variation of bronze and iron arrowheads of the Kofun period in Japan. MORPH 2019, Tohoku University, 2019/09/14.
6. Tamura, K., Nakao, H., Yamaguchi, Y., and Matsumoto, N. Elliptic Fourier analysis of the Ongagawa pottery in prehistoric Japan. MORPH 2019, Tohoku University, 2019/09/14.
7. Nakao, H. An introduction to cultural evolutionary studies. Japanese-German Frontiers of Science Symposium 2018, Kyoto, 2018/09/08.
8. Nakao, H., Nakagawa, T., Tamura, K., Yamaguchi, Y., Matsumoto, N., and Matsugi, T.

- Prehistoric violence in Japan. SEAA conference, Nanjing University, 2018/06/10.
9. Nakao, H. and Nakagawa, T. Violence and warfare in Japanese prehistory. Perspectives on prehistoric cultural evolution: From archaeology to behavioral experiment, AP Shinagawa, 2017/08/07.
  10. Tamura, K., Arimatsu, Y., Nakao, H., Yamaguchi, Y., and Matsumoto, N. Elliptic Fourier analysis of Ongagawa pottery. WAC-8, Kyoto, 2016/08/30.
  11. Nakao, H., Tamura, K., Arimatsu, Y., Nakagawa, T., Matsumoto, N., and Matsugi, T. Violence in the prehistoric period of Japan: the spatiotemporal pattern of skeletal evidence for conflict in the Jomon and Yayoi period. WAC-8, Kyoto, 2016/08/30.
  12. Nakao, H. The structure of cultural evolution. International Association for Cross-Cultural Psychology 2016, Nagoya, Japan, 2016/08/01.
  13. Tamura, K., Arimatsu, Y., Nakao, H., Yamaguchi, Y., and Matsumoto, N. Elliptic Fourier analysis of Ongagawa pottery. HBES 2016, Vancouver, 2016/06/30.
  14. Nakao, H., Tamura, K., Arimatsu, Y., Nakagawa, T., Matsumoto, N., and Matsugi, T. Conflict in the prehistoric period of Japan: the spatiotemporal pattern of skeletal evidence for conflict in the Jomon and Yayoi period. HBES 2016, Vancouver, 2016/06/30.
  15. Iida, K., Shineha, R., Nakao, H., Kikuchi, Y., Ito, K., Hirata, K., and Mariko H. "Science and Society" education for graduate students in natural sciences: A case at the Graduate University for Advanced Studies in Japan. The 2nd International History, philosophy and Science Teaching Asian Regional Conference, Taipei, Taiwan, 2014/12/04.
  16. Nakao, H. and Andrews, A. Ready to learn or ready to teach: A critique of the natural pedagogy theory. Mutual Interactions: Second Singapore Workshop on Integrated History and Philosophy of Science in Practice, Nanyang Technological University, Singapore, 2014/08/19.
  17. Sugawara, Y. and Nakao, H. What's new with mechanism? Comments on In Search of mechanisms: Discoveries across life sciences. Japan-Taiwan Philosophy and History of Biology Workshop, 2014/03/08.
  18. Yoshida, Y. and Nakao, H. Evo-devo as a Motley Aggregation: Interdisciplinary Studies in the 1980s. Japan-Taiwan Philosophy and History of Biology Workshop, 2014/03/08.
  19. Sugawara, Y. and Nakao, H. A New Foundation for Mechanistic Explanation.

Japan-Taiwan Philosophy and History of Biology Workshop, 2014/03/08.

20. Nakao, H. The origin of language: What is the problem? Japan-Taiwan Philosophy and History of Biology Workshop, 2014/03/08.
21. Nakao, H. and Andrews, K. Ready to learn: A critique of the theory of natural pedagogy. 39<sup>th</sup> Annual Meeting of Society for Philosophy and Psychology, Brown University, Providence, 2013/06/13.
22. Nakao, H. Comments and questions (1): Why did the attribution of propositional attitudes evolve? CAPE Philosophy of animal minds Workshop, 2013/01/06.
23. Nakao, H. Evolution of punishment and teaching. Second East Asia Philosophy of Science Workshop, 11/12/2012.
24. Sugawara, Y. and Nakao, H. Mechanistic stance: An epistemic norm among scientists. IHPST Paris-CAPE Kyoto, philosophy of biology workshop, 11/04/2012.
25. Yoshida, Y. and Nakao, H. Overlooked elements in the history of evo-devo: Studies of epigenetics in the 80s. IHPST Paris-CAPE Kyoto, philosophy of biology workshop, 11/04/2012.
26. Sugawara, Y., Nakao, H., and Ota, A. A critical review of the dual visual system hypothesis. First Conference on Contemporary Philosophy in East Asia, 09/06/2012
27. Nakao, H. and Andrews, K. Ready to learn: A critique of the theory of natural pedagogy. 20th meeting, European Society for Philosophy and Psychology, London, August 29, 2012.
28. Nakao, H. What does represent and what scientific models (and others) do represent. Japanese association of philosophy of science, the fall meeting. November 05, 2011.
29. Nakao, H. and Machery E. The evolution of punishment. 14th Congress of Logic, Methodology and Philosophy of Science, University of Nancy, July 23, 2011.
30. Nakao, H. and Machery E. The evolution of punishment. ISHPSSB, University of Utah, July 12, 2011.
31. Nakao, H. Where is evolutionary psychology heading? The 2009 ISHPSSB meeting, University of Queensland, Brisbane, Australia, July 12, 2009.
32. Nakao, H. Cultural evolutionary theory in a philosophical perspective. ISHPSSB Off-Year Workshop, Kobe University, Kobe, Japan, November 5, 2008.
33. Nakao, H. Does human behavioral ecology need the phenotypic gambit? The 2008 Human Behavior and Evolution Society Conference, Kyoto University, Kyoto, Japan, June 6, 2008.

**Membership in Professional Organizations**

Since 2025 Editor-in-chief of Letters on Evolutionary Behavioral Science

Since 2020 Associate Editor of Bioarchaeology International

Since 2018 Cultural Evolution Society

(CES 2021 scientific committee)

Since 2013 HBESJ (Human Behavior and Evolution Society of Japan),

Co-editor of Letters on Evolutionary Behavioral Science since 2013

Since 2010 PSA (Philosophy of Science Association)

Since 2009 ISHPSSB (International Society for History, Philosophy, and Social Studies  
of Biology)

Since 2007 Society of Evolutionary Studies, Japan