

Curriculum Vitae

Hideaki NISHIZAWA (Dr.)

Position: Assistant Professor

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EDUCATION

2007 BSc (in Agricultural Science) Faculty of Agriculture, Kyoto University

2009 MSc (in Informatics) Graduate School of Informatics, Kyoto University

2014 Doctor (in Informatics) Graduate School of Informatics, Kyoto University

WORK EXPERIENCE

Engineer at private company: 2009.3 – 2012.9

Research Fellow of JSPS (for Doctoral course students): 2013.4 – 2014.3

Research Fellow of JSPS (for Postdocs): 2014.4 – 2015.10

Assistant Professor (Kyoto University): 2015.11 – Present

A Member of the 60th Japanese Antarctic Research Expedition (JARE60): 2018.7 – 2019.3

RESEARCH INTERESTS

1. Molecular ecology of sea turtles

- Biogeography and migration of sea turtles in Japan and Southeast Asia

2. Behavioral analysis of sea turtles and aquatic animals

- Behavior during inter-nesting and post-nesting periods of sea turtles

- Nest site selection and trends in the number of nests of sea turtles

- Biotelemetry studies of sea snakes, giant salamanders, and fishes

3. Functional morphology of turtles

- Ontogenetic change in morphology of turtles

- Inter-specific differences in morphology in relation to feeding habits

FIELDWORK EXPERIENCE

- Ishigaki-jima Island, Okinawa, Japan
- Okinoerabu-jima Island, Kagoshima, Japan
- Redang Island, Terengganu, Malaysia
- Syowa Station, Antarctica

RESEARCH GRANT/PROJECTS

Grant-in-aid for JSPS Research Fellows (no. 25-1999): 2013–2015

The Koyo University Foundation Research Promotion Grant: 2017–2018

Skim Geran Penyelidikan Fundamental (FRGS 2019-1): 2019–2021 [Project leader: Juanita Joseph]

EDUCATION EXPERIENCE (CLASSES)

Practice of Basic Informatics: 2016

Biosphere Informatics (Partially): 2016 – Present

Data Science School 2019 -December-

EXPERIENCE AS A REVIEWER

Biodiversitas

Biogeoscience

Biological Invasions

Biological Journal of the Linnean Society

Coastal Marine Science

Frontiers in Ecology and Evolution

Journal of Applied Ichthyology

Marine Biology

Marine Ecology

Molecular Ecology Resources

Pacific Science

Zoological Science

PUBLICATIONS

Peer-reviewed

- [1] Okuyama J, Abe O, Nishizawa H, Kobayashi M, Yoseda K, Arai N (2009) Ontogeny of the dispersal migration of green turtle (*Chelonia mydas*) hatchlings. *Journal of Experimental Marine Biology and Ecology* 379: 43–50.
- [2] Nishizawa H, Okuyama J, Kobayashi M, Abe O, Arai N (2010) Comparative phylogeny and historical perspectives on population genetics of the Pacific hawksbill (*Eretmochelys imbricata*) and green turtles (*Chelonia mydas*), inferred from feeding populations in the Yaeyama Islands, Japan. *Zoological Science* 27: 14–18.
- [3] Nishizawa H, Okuyama J, Abe O, Kobayashi M, Yoseda K, Arai N (2010) Ontogenetic changes in the flipper-beating behavior in free-ranging versus tank-housed green turtle (*Chelonia mydas*) juveniles. *Coastal Marine Science* 34: 7–12.
- [4] Nishizawa H, Asahara M, Kamezaki N, Arai N (2010) Differences in the skull morphology between juvenile and adult green turtles: Implications for the ontogenetic diet shift. *Current Herpetology* 29: 85–89.
- [5] Nishizawa H, Abe O, Okuyama J, Kobayashi M, Arai N (2011) Population genetic structure and implications for natal philopatry of nesting green turtles (*Chelonia mydas*) in the Yaeyama Islands, Japan. *Endangered Species Research* 14: 141–148.
- [6] Nishizawa H, Okuyama J, Abe O, Kobayashi M, Arai N (2012) Mitochondrial DNA variation in hawksbill turtles (*Eretmochelys imbricata*) nesting on Ishigaki Island, Japan. *Marine Turtle Newsletter* 132: 1–2.
- [7] Nishizawa H, Asahara M, Kamezaki N (2013) Ontogenetic scaling of the humerus in sea turtles and its implications for locomotion. *Zoological Science* 30: 211–216.
- [8] Nishizawa H, Naito Y, Suganuma H, Abe O, Okuyama J, Hirate K, Tanaka S, Inoguchi E, Narushima K, Kobayashi K, Ishii H, Tanizaki S, Kobayashi M, Goto A, Arai N (2013) Composition of green turtle feeding aggregations along the Japanese Archipelago: implications for changes in composition with current flow. *Marine Biology* 160: 2671–2685.
- [9] Nishizawa H, Noda T, Yasuda T, Okuyama J, Arai N, Kobayashi M (2013) Decision tree classification of behaviors in the nesting process of green turtles (*Chelonia mydas*) from tri-axial acceleration data. *Journal of Ethology* 31: 315–322.
- [10] Nishizawa H, Narazaki T, Fukuoka T, Sato K, Hamabata T, Kinoshita M, Arai N (2014) Genetic composition of loggerhead turtle feeding aggregations: migration patterns in the North Pacific. *Endangered Species Research* 24: 85–93.

- [11] Nishizawa H, Narazaki T, Fukuoka T, Sato K, Hamabata T, Kinoshita M, Arai N (2014) Juvenile green turtles in the northern edge of their range: mtDNA evidence of long-distance westward dispersals in the northern Pacific Ocean. *Endangered Species Research* 24: 171–179.
- [12] Nishizawa H, Tabata R, Hori T, Mitamura H, Arai N (2014) Feeding kinematics of freshwater turtles: what advantage do invasive species possess? *Zoology* 117: 315–318.
- [13] Hayashi R, Nishizawa H (2015) Body size distribution demonstrates flexible habitat shift of green turtle (*Chelonia mydas*). *Global Ecology and Conservation* 3: 115–120.
- [14] Joseph J, Nishizawa H (2016) Genetic structure and diversity of green turtles (*Chelonia mydas*) from two rookeries in the South China Sea. *Journal of Sustainability Science and Management. Special Issue: the International seminar on the straits of Malacca and the South China Sea*. 11: 41–47
- [15] Kono Y, Nishizawa H, Arai N, Mitamura H (2016) Behavioral changes of Japanese flounder *Paralichthys olivaceus* in response to decrease in dissolved oxygen. *Journal of Advanced Marine Science and Technology Society* 22: 39–45. *in Japanese, with English Abstract*
- [16] Joseph J, Nishizawa H, Wahidah MA, Syed Abdullah SK, Jaaman SA, Bali J, Noorul Azliana J, Katoh M (2016) Genetic stock compositions and natal origin of green turtle (*Chelonia mydas*) foraging at Brunei Bay. *Global Ecology and Conservation* 6: 16–24.
- [17] Nishizawa H, Joseph J, Chong YK (2016) Spatio-temporal patterns of mitochondrial DNA variation in hawksbill turtles (*Eretmochelys imbricata*) in Southeast Asia. *Journal of Experimental Marine Biology and Ecology* 474: 164–170.
- [18] Joseph J, Nishizawa H, Hassan M, Zakariah MI, Jaaman SA, Zhang X (2017) Utilization of Brunei Bay (Malaysia) as a developmental and foraging habitat for hawksbill turtle (*Eretmochelys imbricata*). *Regional Studies in Marine Science* 16: 304–307.
- [19] Tabata R, Tashiro F, Nishizawa H, Takagi J, Kidera N, Mitamura H (2017) Stomach contents of three sea kraits (Hydrophiinae: *Laticauda* spp.) in the Ryukyu Islands, Japan. *Current Herpetology* 36: 127–134.
- [20] Tanaka K, Ichikawa K, Nishizawa H, Kittiwattanawong K, Arai N, Mitamura H (2017) Differences in vocalisation patterns of dugongs between fine-scale habitats around Talibong Island, Thailand. *Acoustics Australia* 45: 243–251.
- [21] Nishizawa H, Kono Y, Arai N, Shoji J, Mitamura H (2017) Ventilatory and behavioural responses of the marbled sole *Pseudopleuronectes yokohamae* to progressive hypoxia. *Journal of Fish Biology* 90: 2363–2374.
- [22] Nishizawa H, Joseph J, Chew VY-C, Liew H-C, Chan E-H (2018) Assessing tag loss and survival probabilities in green turtles (*Chelonia mydas*) nesting in Malaysia. *Journal of the Marine*

Biological Association of the United Kingdom 98: 961–972.

[23] Mohd Salleh S, Nishizawa H, Mohd Sah SA, Safri MF (2018) Spatiotemporal preferences in nesting of the hawksbill turtle (*Eretmochelys imbricata*) in Melaka, Malaysia. Journal of the Marine Biological Association of the United Kingdom 98: 2145–2152.

[24] Mohd Salleh S, Nishizawa H, Ishihara T, Mohd Sah SA, Jalal KCA (2018) Importance of Sand Particle Size and Temperature for Nesting Success of Green Turtles in Penang Island, Malaysia. Chelonian Conservation and Biology 17: 116–122.

[25] Tashiro F, Tabata R, Nishizawa H, Mitamura H (2018) A rare species of *Uropterygius* (Anguilliformes, Muraenidae) found in stomach contents of a yellow-lipped sea krait from Japan. Check List 14 (1): 163–166.

[26] Nishizawa H, Joseph J, Chong YK, Syed Kadir SA, Isnain I, Ganyai TA, Jaaman S, Zhang X (2018) Comparison of the rookery connectivity and migratory connectivity: insight into movement and colonization of the green turtle (*Chelonia mydas*) in Pacific-Southeast Asia. Marine Biology 165: 77

[27] Hamabata T, Nishizawa H, Kawazu I, Kameda K, Kamezaki N, Hikida T (2018) Stock composition of green turtles (*Chelonia mydas*) foraging in the Ryukyu Archipelago differs with size class. Marine Ecology Progress Series 600: 151–163.

[28] Tabata R, Nishizawa H, Hori T, Seki S, Nishikawa K, Mitamura H (2018) Electronic tag retention and survival of giant salamanders after surgical implantation. Current Herpetology 37: 133–142.

[29] Coelho VF, Domit C, Broadhurst MK, Prosdocimi L, Nishizawa H, Almeida FS (2018) Intra-specific variation in skull morphology of juvenile *Chelonia mydas* in the southwestern Atlantic Ocean. Marine Biology 165: 174

[30] Joseph J, Nishizawa H, Alin JM, Othman R, Jolis G, Isnain I, Nais J (2019) Mass sea turtle slaughter at Pulau Tiga, Malaysia: Genetic studies indicate poaching locations and its potential effects. Global Ecology and Conservation 17: e00586

[31] Nishizawa H, Ichikawa K, Asai S, Arai N, Mitamura H, Miyamoto Y, Iwami T (2019) Record of fishes sampled in Kita-no-ura cove (Lützw-Holm Bay, East Antarctica) in January 2019. Nankyoku Shiryô (Antarctic Record) 63: 20–26. *in Japanese, with English Abstract*

Not peer-reviewed

[1] Nishizawa H (2010) Genetic structure of Japanese sea turtle populations. Aquabiology 32: 419–423. *in Japanese, with English Abstract*

MAJOR PRESENTATIONS

[1] Nishizawa H, Okuyama J, Abe O, Kobayashi M, Yoseda K, Arai N. Mitochondrial DNA haplotype frequencies in green turtle nesting populations in Yaeyama Archipelago, Japan. The 4th International Symposium on SEASTAR2000 and Asian Bio-logging Science (8th SEASTAR2000 Workshop). Phuket, Thailand. Dec 15, 2007. Oral

[2] Nishizawa H, Asahara M. Bite force allometry in green turtles (Reptilia) and masked palm civets (Mammalia): a feeding adaptation? The 3rd International Symposium of the Biodiversity and Evolution Global COE project. Kyoto, Japan. Jul 1, 2009. Poster

[3] Nishizawa H, Okuyama J, Yasuda T, Arai N, Kobayashi M. Difference in flipper beating frequency of green turtles in water and on land. The 1st Design Symposium on Conservation of Ecosystem (SEASTAR2000). Kyoto, Japan. Mar 19, 2013. Oral

[4] Nishizawa H, Okuyama J, Yasuda T, Arai N, Kobayashi M. Flipper beating modulation of green turtles in water and on land: implications for aquatic adaptation and locomotor trade-off. 33th Annual Symposium on Sea Turtle Biology and Conservation. Baltimore, MA, USA. Feb 4–8, 2013. Poster

[5] Nishizawa H, Tabata R, Hori T, Mitamura H, and Arai N. Comparison of feeding kinematics of freshwater turtles: Implication for advantage in invasive species. The 2nd Design Symposium on Conservation of Ecosystem (SEASTAR2000). Kyoto, Japan. Mar 19, 2014. Oral

[6] Nishizawa H, Joseph J, Wong LM, Anak Ganyai T. Genetic structure and diversity of green turtle populations in Malaysia. The 3rd Design Symposium on Conservation of Ecosystem (SEASTAR2000). Kyoto, Japan. Mar 15, 2015. Poster

[7] Nishizawa H, Hayashi R, Kinoshita M, Arai N. Genetic diversity of turtle barnacles (*Chelonibia testudinaria*) within a host sea turtle. 35th Annual Symposium on Sea Turtle Biology and Conservation. Dalaman, Turkey. Apr 20–22, 2015. Poster

[8] Joseph J, Nishizawa H, Chong YK. Green turtle (*Chelonia mydas*) mixed stocks in the Celebes Sea. 35th Annual Symposium on Sea Turtle Biology and Conservation. Dalaman, Turkey. Apr 20–22, 2015. Poster

[9] Nishizawa H, Mitamura H, Ishii M, Kajiyama M, Arai N, Hori M. Spawning and post-spawning movement and behavior of marbled flounder (*Pseudopleuronectes yokohamae*) in Tokyo Bay, Japan. 10th International Flatfish Symposium. Saint-Malo, France. Nov 13–15, 2017. Poster

[10] Nishizawa H, Joseph J, Chong YK, Syed Kadir SA, Isnain I, Ganyai TA, Jaaman S, Zhang X. Does historical connectivity reflect contemporary connectivity of green turtle (*Chelonia mydas*)? – A case in Pacific-Southeast Asia. 38th International Sea Turtle Symposium. Kobe, Japan. Feb 23, 2018.

Oral

[11] Hamabata T, Nishizawa H, Kawazu I, Kameda K, Kamezaki N, Hikida T. Foraging dynamics of green turtles around Japanese waters and distribution boundary observed between subtropical and temperate waters. 38th International Sea Turtle Symposium. Kobe, Japan. Feb 23, 2018. Oral

[12] Okuyama J, Ishii H, Tanizaki S, Suzuki T, Abe O, Nishizawa H, Yano A, Tsujimura M, Ishigaki T, Ishigaki T, Kobayashi M, Kobayashi A, Maekawa S, Yanagida H, Sagawa T, Fujikura Y. Change in the species composition of sea turtles nesting at Ishigaki Island, Japan where the edges of nesting areas of three species are overlapped. 38th International Sea Turtle Symposium. Kobe, Japan. Feb 21, 2018. Poster

[13] Fujita K, Nishizawa H, Okuyama J, Takuma S, Narazaki T, Watabe A. Dive behavior during post-nesting migration of loggerhead turtles nesting in Japan. 38th International Sea Turtle Symposium. Kobe, Japan. Feb 20, 2018. Poster **#Archie Carr Student Awards: Best Poster, Biology**