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OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY
沖縄科学技術大学院大学

THEORETICAL SCIENCES VISITING PROGRAM

TSVP TALK

Meta-Research & Meta-Analysis in Ecology & Evolution

2023
THU. **Mar. 16**

16:00–17:00

HYBRID L4E48, ZOOM



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This talk comes in two parts. First, I tackle the question - are we in a replication crisis in ecology and evolutionary biology? I present our recent work on the replicability of ecological and evolutionary studies, where we examined over 80 meta-analyses in relation to statistical power and other related metrics. Second, I speculate on the future of meta-analysis in ecology and evolution and beyond. Will meta-analysis be obsolete in the face of big data? Not at all. I discuss how data integration, via meta-analyses, combining literature-based data and other types of data, such as citizen science data, will be the future. I present our recent work, where we used eBird data to conduct the biggest meta-analysis.

University of New South Wales

Shinichi Nakagawa

Shinichi is originally from Japan but has studied and worked in New Zealand, UK, Germany and Australia. He is currently a Professor of Evolutionary Ecology and Synthesis at UNSW, Sydney. His work revolves around understanding individual variation and its maintenance. Yet, his work is interdisciplinary with publications in (bio)medicine, psychology, ecology, evolutionary biology, education, environmental sciences, statistics and neurosciences.

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