

Title	Computational analysis of the world's music
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Abstract	<p>Thanks to the support of the Keio University Academic Development Funds for Individual Research, we were able to successfully carry out our proposed research, publish 9 original research papers, and give 22 presentations at international conferences (all virtual due to COVID-19).</p> <p>Specifically, the fund allowed us to pay for student part-time work to undertake research and to present and publish our research findings at international journals and conferences such as Behavioral and Brain Sciences, Current Biology, the International Society for Music Information Retrieval, the International Conference on Music Perception and Cognition, and the Cultural Evolution Society World Conference.</p> <p>Our major findings were that there is both substantial cross-cultural variation and cross-cultural universals in music perception and production, and that social bonding is a unifying factor that shapes this cross-cultural diversity and universality. We obtained these findings using new methods from computer science and cognitive science to analyze and compare music from around the world. In the future we hope to build on these results to apply these techniques at larger scales to tackle challenges such as automatic music recommendation and understanding global variation in music perception and production. We are grateful for the financial support of the Keio University Academic Development Funds for Individual Research.</p>
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研究課題（日本語）						
Computational analysis of the world's music						
研究課題（英訳）						
Computational analysis of the world's music						
1. 研究成果実績の概要						
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2. 研究成果実績の概要（英訳）						
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3. 本研究課題に関する発表						
発表者氏名 (著者・講演者)	発表課題名 (著書名・演題)	発表学術誌名 (著書発行所・講演学会)	学術誌発行年月 (著書発行年月・講演年月)			
Savage, P. E., Passmore, S., Chiba, G., Currie, T. E., Suzuki, H., & Atkinson, Q. D.	Sequence alignment of folk song melodies reveals cross-cultural regularities of musical evolution.	Current Biology	February 2021			
Savage, P. E., Loui, P., Tarr, B., Schachner, A., Glowacki, L., Mithen, S., & Fitch, W. T.	Music as a coevolved system for social bonding [one of two target articles, accompanied by 60 commentaries + author response]	Behavioral and Brain Sciences	September 2021			
Matsumae, H., Ranacher, P., Savage, P. E., Blasi, D., Currie, T. E., Sato, T., Koganebuchi, K., Nishida, N., Sato, T., Tanabe, H., Tajima, A., Brown, S., Stoneking, M., Shimizu, K. K., Oota, H., Bickel, B.	Exploring correlations in genetic and cultural variation across language families in Northeast Asia	Science Advances	August 2021			
Youngblood, M., Baraghith, K., & Savage, P. E.	Phylogenetic reconstruction of the cultural evolution of electronic music via dynamic community detection (1975-1999)	Evolution and Human Behavior	November 2021			

<p>Ozaki, Y., McBride, J., Benetos, E., Pfordresher, P., Six, J., Tierney, A. T., Proutskova, P., Sakai, E., Kondo, H., Fukatsu, H., Fujii, S., & Savage, P. E.</p>	<p>Agreement among human and automated transcriptions of global songs</p>	<p>Proceedings of the 22nd International Conference on Music Information Retrieval (ISMIR 2021)</p>	<p>November 2021</p>
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