

Title	Computational analysis of the world's music
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Author	Savage, Patrick
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Abstract	<p>Thanks to the support of the Keio Gijuku Academic Development Fund, we were able to successfully carry out our proposed research, publish original research, and give presentations at international conferences.</p> <p>Specifically, the fund allowed us to perform research that we published in high-impact peer-reviewed journals (e.g., Behavioral and Brain Sciences) and conference proceedings (e.g., Proceedings of the International Society for Music Information Retrieval). We have also had 8 abstracts accepted for presentation at the 2021 International Conference on Music Perception and Cognition.</p> <p>Our major findings were that automated analyses reveal cross-cultural variation and similarities in the world's music that can help us understand how and why music evolved. We obtained these findings using new methods from computer science and cognitive science to analyze and compare melodies, rhythms, timbre, and other aspects of music.</p> <p>In the future we hope to build on these results to apply these techniques at larger scales. Based on our success during FY2020, I am optimistic that next year we will be in a good position to extend and publish the results of this year's research. We are grateful for the financial support of the Keio Gijuku Academic Development Fund.</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						
<p>Thanks to the support of the Keio Gijuku Academic Development Fund, we were able to successfully carry out our proposed research, publish original research, and give presentations at international conferences.</p> <p>Specifically, the fund allowed us to perform research that we published in high-impact peer-reviewed journals (e.g., Behavioral and Brain Sciences) and conference proceedings (e.g., Proceedings of the International Society for Music Information Retrieval). We have also had 8 abstracts accepted for presentation at the 2021 International Conference on Music Perception and Cognition.</p> <p>Our major findings were that automated analyses reveal cross-cultural variation and similarities in the world's music that can help us understand how and why music evolved. We obtained these findings using new methods from computer science and cognitive science to analyze and compare melodies, rhythms, timbre, and other aspects of music.</p> <p>In the future we hope to build on these results to apply these techniques at larger scales. Based on our success during FY2020, I am optimistic that next year we will be in a good position to extend and publish the results of this year's research. We are grateful for the financial support of the Keio Gijuku Academic Development Fund.</p>						
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., Loui, P., Tarr, B., Schachner, A., Glowacki, L., Mithen, S., & Fitch, W. T.	Music as a coevolved system for social bonding	Behavioral and Brain Sciences	August 2020			
Yuan, Y., Oishi, S., Cronin, C., Müllensiefen, D., Atkinson, Q. D., Fujii, S., & Savage, P. E.	Perceptual vs. automated judgments of music copyright infringement	Proceedings of the 21st International Society for Music Information Retrieval Conference (ISMIR 2020)	November 2020			
Daikoku, H., Wood, A. L. C., & Savage, P. E.	Musical diversity in India: A preliminary computational study using Cantometrics	Keio SFC Journal	March 2021			
Kitayama, Y., Savage, P. E., & *Fujii, S.	歌の科学 [The science of song]	Keio SFC Journal	March 2021			