

# Blair Kaneshiro, PhD

Interdisciplinary researcher in cognitive neuroscience, neuroscience methods, music information retrieval, and music cognition. Expertise in multivariate analysis of auditory and visual EEG, natural stimuli, engagement, and mixed-methods user research. Organizer, mentor, and advocate for diversity and inclusion in higher education and STEM.

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Graduate School of Education  
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## LINKS

Web <https://ccrma.stanford.edu/~blairbo/>  
Google Scholar <https://scholar.google.com/citations?user=dvWTcQ0AAAAAJ>  
ORCID <https://orcid.org/0000-0003-0364-6985>  
GitHub <https://github.com/blairkan/>  
LinkedIn <https://www.linkedin.com/in/blairkaneshiro/>

## EDUCATION

2009-2016 **PhD, Music** (Subprogram: Computer-Based Music Theory & Acoustics)  
*Stanford University, Stanford, CA*  
Dissertation: Toward an Objective Neurophysiological Measure of Musical Engagement  
Advisor: Jonathan Berger, DMA (Professor of Music)  
Co-advisor: Anthony M. Norcia, PhD (Professor of Psychology)

2008-2011 **MS, Electrical Engineering** (Depth area: Signal Processing)  
*Stanford University, Stanford, CA*

2007-2010 **MA, Music** (Subprogram: Music, Science, & Technology)  
*Stanford University, Stanford, CA*

1997-2005 **BA, Music**  
*Stanford University, Stanford, CA*

## EXPERIENCE

2021-present **Research Scholar** Graduate School of Education

2020-2021 **Research & Development Associate** Graduate School of Education  
*Stanford University, Stanford, CA*  
PI: Bruce McCandliss, PhD (Professor)

- Establishing interdisciplinary research effort between Education, Music, Psychology, and Psychiatry to study learner differences through processing of natural speech and music.
- Developing EEG analysis software for the Educational Neuroscience Initiative: Data cleaning and analysis of steady-state, ERP, and continuous responses; open codebases for EEG classification, inter-subject correlation (ISC), and stimulus-response correlation (SRC).
- Providing neuroscience training to interdisciplinary cohort of students and researchers via technical seminars, technical tutorials, and direct research mentorship.

2022-present **Adjunct Professor** College of Engineering  
*University of Alaska Anchorage, Anchorage, AK*

- Teaching upper-level electives in Computer Science and Computer Systems Engineering.
- Mentoring student research.

- 2022-present **Senior Scientific Consultant**  
*soundBrilliance, LLC, Minneapolis, MN*
- Determining high-level aims, scope, and activities of the company's research team.
  - Establishing research infrastructure including workflows for study design, protocol development, research execution, and partnerships; IRB; and internal knowledge base.
  - Contributing subject matter expertise to determine objective and subjective testing methodologies in support of foundational research and product targets.
- 2019-present **Adjunct Professor** Center for Computer Research in Music and Acoustics  
 2017-2019 **Affiliated Researcher** Center for Computer Research in Music and Acoustics  
*Stanford University, Stanford, CA*
- Conducting musical engagement research via EEG research, mixed-methods user research, and analyses of industrial user data.
  - Developing and publishing open software and datasets for neuroscience research.
  - Mentoring Stanford graduate and undergraduate students from various departments.
  - Maintaining Institutional Review Board (IRB) protocols (Medical and Non-Medical).
- 2018-2018 **Music Research Lead**  
*Smule, Inc., San Francisco, CA*
- Devised cross-functional, high-level Content Curation strategy.
  - Developed global, hierarchical genre taxonomy for labeling user-uploaded content.
  - Administered hosting and access for research datasets.
- 2017-2018 **Research Scientist** Department of Otolaryngology Head & Neck Surgery  
*Stanford University School of Medicine, Palo Alto, CA*  
 PI: Matthew Fitzgerald, PhD (Assistant Professor and Chief of Audiology)
- Performed auditory neuroscience and behavioral research with a focus on cortical (evoked response) and subcortical (frequency following response) EEG decoding and Representational Similarity Analysis.
  - Established hardware configurations, preprocessing and analysis software, communication tools, and participant recruiting workflow for research group.
  - Recruited, trained, and mentored student researchers in the lab.
  - Maintained IRB protocol (Medical).
- 2016-2017 **Postdoctoral Scholar** Music / Center for the Study of Language and Information  
*Stanford University, Stanford, CA*  
 PI: Jonathan Berger, DMA (Professor)
- Supervised the Music Engagement Research Initiative research group while faculty PI was on leave for the duration of the appointment.
  - Performed research on musical engagement with a focus on multivariate EEG analysis, large-scale social media data, and development of open-source software and datasets.
  - Maintained IRB protocols (Medical and Non-Medical).
- 2013-2016 **Research Assistant** Center for Computer Research in Music and Acoustics  
*Stanford University, Stanford, CA*  
 PI: Jonathan Berger, DMA (Professor)
- Designed and conducted research on musical engagement with a focus on cortical EEG and physiological responses.
  - Configured shared EEG lab hardware and software for auditory experiments.
  - Wrote end-to-end software for preprocessing and analysis of cortical and physiological responses including filtering, artifact removal, component and multivariate analyses, and visualizations.
  - Trained and mentored lab members in end-to-end research pipeline, from experimental design through data collection, analysis, and reporting.
  - Wrote and maintained IRB protocols (Medical and Non-Medical).

- 2012-2016     **R&D Associate**  
*Shazam Entertainment Ltd., Redwood City, CA*
- Established Silicon Valley Engineering Intern program, resulting in 6 FTE offers extended over 3 years. Sourced candidates for audio DSP, Data Science, and Design positions; co-organized program activities including project specification and documentation, social events, and guest speakers.
  - Produced peer-reviewed publication, conference presentations, and published research dataset based on Shazam user data.
  - Researched and implemented second-screen experiences for Shazam for TV product.
  - Wrote business case and developed design specifications for proposed new app functionality.
- 2007-2013     **Research Assistant** Center for the Study of Language and Information  
*Stanford University, Stanford, CA*  
 PI: Patrick Suppes, PhD (Professor Emeritus)
- Designed and performed research on multivariate decoding of EEG responses to auditory and visual stimuli.
  - Trained incoming lab members in human subjects research, data collection, and analysis.
  - Maintained IRB protocol (Medical).
- 2004-2007     **Course Developer, Language Arts and Writing** Education Program for Gifted Youth  
*Stanford University, Stanford, CA*
- Developed grade-school language-arts curriculum tailored for online learning.
  - Hired and managed 3 Course Development Assistants and Course Tutor.
  - Wrote context-free grammars to automatically evaluate and provide corrective feedback for student-written sentences.

## TEACHING

### Instructor of Record

- 2022-present   College of Engineering, *University of Alaska Anchorage*  
 CSCEA490/A690 Music, Computing, Technology, and Behavior (2023)  
 CSCEA490 Neuroscience of Engagement (2022)
- 2016-present   Department of Music, *Stanford University*  
 MUSIC220D Research in Computer-Generated Music (2018-present)  
 MUSIC364 Data-Driven Research in Music Cognition (2016, 2017)

### Graduate Teaching Assistant

- 2012-2013     Department of Electrical Engineering, *Stanford University*  
 EE204 Business Management for Electrical Engineers and Computer Scientists (2012, 2013)
- 2010-2012     Department of Music, *Stanford University*  
 MUSIC150 Introduction to Musical Acoustics (2011, 2012)  
 MUSIC251 Psychophysics and Music Cognition (2011)  
 MUSIC320 Introduction to Digital Audio Signal Processing (2011)  
 MUSIC220A Fundamentals of Computer-Generated Sound (co-TA, 2010)

## RESEARCH SUPPORT

- 2021-2022     Stanford University Transforming Learning Accelerator Seed Grant: Understanding Learning Differences in Context (Co-Investigator; PI Bruce McCandliss)  
 "Tuning into Learner Differences in Sensory vs. Integrative Experiences of the World: Crossing Boundaries of Speech and Music"

- 2021-2021 Stanford University mediaX Seed Grant: Taxonomies for Differentiation and Personalization in Special Needs Learning (Co-Investigator; PI Bruce McCandliss)  
“Toward New Taxonomies of Student by Treatment Interactions in Special Education: Validating Neural Metrics of Engagement with Naturalistic Stimuli using Mobile EEG”
- 2016-2017 Stanford University Roberta Bowman Denning Fund for Humanities and Technology (Co-Investigator; PI Jonathan Berger)
- 2007-2017 Stanford University Patrick Suppes Gift Fund (Supported Researcher; PI Patrick Suppes)
- 2013-2016 Wallenberg Network Initiative: Culture, Brain, Learning (Supported Researcher; PI Craig Heller)
- 2009-2010 Stanford University Department of Music Fellowship

## RESEARCH MENTORSHIP

- 2022-present **Philip Hernandez** PhD Education, *Stanford University*
- 2022-present **Jaylen Pittman** PhD Education, *Stanford University*
- 2022-present **Neha Rajagopalan** Predoctoral Research Associate, PhD Education, *Stanford University*
- 2021-present **Madison Bunderson** PhD Education, *Stanford University*
- 2020-present **Lindsey Hasak** PhD Education, *Stanford University*
- 2020-present **Fang Wang** Postdoctoral Scholar, Education, *Stanford University*
- 2021-2022 **Raymond Gifford** MA Music (Music, Science, and Technology), *Stanford University*
- 2021-2022 **Emily Redmond** BS Computer Science, *Stanford University*
- 2020-2022 **Trang Nguyen** PhD Education, *Stanford University*
- 2017-2022 **So Yeon Park** PhD Mechanical Engineering (Center for Design Research), *Stanford University*
- 2018-2021 **Jay Appaji** BS Electrical Engineering, BA Music, *Southern Methodist University*; Affiliated Researcher, Music, *Stanford University*
- 2017-2021 **Brandi Frisbie** Affiliated Researcher, Music, *Stanford University*
- 2016-2021 **Bernard Wang** MA Music (Music, Science, and Technology), *Stanford University*
- 2015-2021 **Tysen Dauer** PhD Music (Musicology), *Stanford University*
- 2020-2020 **Arshiya Gupta** MBA, *University of San Francisco*
- 2019-2020 **Camille Noufi** PhD Music (Computer-Based Music Theory and Acoustics), *Stanford University*
- 2017-2020 **Elena Georgieva** MA Music (Music, Science, and Technology), *Stanford University*
- 2013-2020 **Steven Losorelli** BS Human Biology with Honors, MS Biology, MD Medicine, *Stanford University*
- 2017-2019 **Vidya Rangasayee** PhD Music (Computer-Based Music Theory and Acoustics), *Stanford University*
- 2017-2018 **Vivian Lou** BA Music, BS Biology with Honors, *Stanford University*
- 2013-2018 **Karanvir Singh** Research Assistant, *Stanford University*
- 2016-2017 **Nick Gang** MA Music (Music, Science, and Technology), *Stanford University*
- 2016-2017 **Alan Huang** *Palo Alto High School*
- 2016-2016 **Jack Atherton** PhD Music (Computer-Based Music Theory and Acoustics), *Stanford University*
- 2013-2014 **Evan Gitterman** BS Symbolic Systems with Honors, *Stanford University*

## EXAMINATION COMMITTEES

- 2022 **Juan Sebastián Gómez Cañón** PhD Information and Communication Technologies, *Universitat Pompeu Fabra*. Thesis committee member.
- 2022 **Trang Nguyen** PhD Education, *Stanford University*. Dissertation defense committee.
- 2021 **Giorgia Cantisani** PhD Audio Signal Processing and Machine Learning, *Télécom Paris*. Thesis defense examiner.

2014 **Evan Gitterman** BS Symbolic Systems with Honors, *Stanford University*. Second thesis reader.

## AWARDS AND HONORS

2017 Outstanding Service to the Conference Award, 18th International Society for Music Information Retrieval Conference  
2016 Carolyn Applebaum Memorial Prize, Stanford Department of Music  
2015 Best Reviewer Award, 16th International Society for Music Information Retrieval Conference  
2014 Kleiner Perkins Caufield & Byers Engineering Fellow  
2011 Chair's Award for Excellence in Teaching, Stanford Department of Music  
1997 Stanford University President's Scholar  
1997 United States Presidential Scholar, Hawaii

## REVIEWERSHIP

ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)  
Association for Psychological Science (APS) – APSSC Student Research Awards  
CogMIR: Cognitively Based Music Informatics Research  
Computational Intelligence and Neuroscience  
Frontiers in Human Neuroscience  
Frontiers in Psychology  
International Society for Music Information Retrieval Conference (ISMIR; meta-reviewer)  
IEEE Journal of Selected Topics in Signal Processing  
Journal of the Association for Information Science and Technology (JASIST)  
NeuroImage  
Personal and Ubiquitous Computing  
Psychomusicology: Music, Mind, and Brain  
Society for Music Perception and Cognition (SMPC)  
Scientific Reports  
Transactions of the International Society for Music Information Retrieval (TISMIR)

## LEADERSHIP AND SERVICE

**Audio Developer Conference (ADC) Mentorship Program** *“This program is centered around the Audio Developer Conference (ADC) to help encourage interaction between experienced members of the audio software community, and those who are just coming into it.”*  
2023-present Founding Program Advisor

**Peer Mentoring in Music (PMM) Program, Stanford Department of Music** *“Emphasizing inclusivity and nonjudgmental support in teaching practices, this peer network will share effective pedagogical strategies, provide professional development support, and foster role models for future educators.”*  
2020-present Founding Program Advisor

**Technical seminars, Stanford University** *Seminar series bringing together neuroscience researchers from the Graduate School of Education, Psychology, Psychiatry, Ophthalmology, Biomedical Engineering, and other departments to discuss recent literature, share works in progress, and hold tutorial and training sessions. Organizational duties include scheduling, hosting, and frequently presenting in seminars.*  
2020-present Founding Organizer, EEG Topics Seminar  
2021-2023 Founding Organizer, EEG Preprocessing and Analysis Workgroup

**International Society for Music Information Retrieval (ISMIR)** *“A non-profit organization seeking to advance the access, organization, and understanding of music information.”*  
2023-present Organizer, ISMIR Review Process Working Group  
2018-present Member-at-Large, ISMIR Board  
2022 “New to ISMIR” mentor, ISMIR2022 conference

**Women in Music Information Retrieval (WiMIR)** *“A group of people within the International Society for Music Information Retrieval. We are dedicated to promoting the role of, and increasing opportunities for, women in the MIR field. We meet to socialize, share information, and discuss in an informal setting, with the goal of building a community around women in our field.”*

2020-present Founding Advisor, WiMIR Editorial Committee  
2018-present Mentor, WiMIR Mentoring Program  
2018-2021 Founding Co-Organizer, WiMIR Workshop  
2016-2020 Founding Co-Organizer, WiMIR Mentoring Program

**Kleiner Perkins Fellows (formerly Kleiner Perkins Caufield & Byers Fellows)** *“The Kleiner Perkins (KP) Fellows Program offers top students a chance to work inside innovative startups. Fellows work on challenging technical, design & product problems.”*

2016, 2022 Selection Committee, KP Engineering Fellows

**Diversity and First-Gen Office (FLI), Stanford University** *“Our office advocates for [First-Gen and/or Low Income] FLI students throughout campus in order to give them the quality college experience they deserve. Our campus partnerships allow us to serve our students holistically, with the hopes that our students will become their own advocates and their peers’ as well.”*

2017-2019 Community Volunteer  
2016-2017 Graduate Organizer, FLI Mentoring Program  
2015-2017 Mentor, FLI Mentoring Program

**Music Information Retrieval Evaluation eXchange (MIREX)** *“An annual evaluation campaign for MIR algorithms, coupled to the ISMIR conference.”*

2014 Task Co-Captain, Query by Tapping

**Department of Music, Stanford University**

2011 Student Representative, faculty search committee

## CONFERENCE AND EVENT ORGANIZATION

**International Society for Music Information Retrieval Conference (ISMIR)** *“The ISMIR conference is held annually and is the world’s leading research forum on processing, searching, organizing and accessing music-related data.”*

2022-present General Co-Chair, ISMIR2024  
2020-2021 Diversity & Inclusion Co-Chair, ISMIR2021 (virtual format)  
2019-2020 Tutorials Co-Chair, ISMIR2020 (virtual format)  
2018-2019 Advisory Committee, ISMIR2019  
2016-2018 Sponsorships Chair, ISMIR2017 and ISMIR2018  
2016 Women in Music Information Retrieval (WiMIR) Representative, ISMIR2016

**Women in Music Information Retrieval (WiMIR) Workshop** *“The goal of the WiMIR Workshop is to provide a venue for mentorship, networking, and collaboration among women and allies in the ISMIR community.”*

2018-2021 Organizing Committee (in-person and virtual formats)

**Bay Innovative Signal Hackers Bash (BISH Bash)** *Meetup group for “engineers and researchers in the Bay Area working in the field of Speech and Audio Digital Signal Processing.”*

2017-2021 Meetup Group Organizing Team (in-person and virtual formats)  
2017 Event Co-Host, CCRMA  
2016 Event Host, Shazam

**Stanford Music and the Brain Symposium** *“The annual Music and Brain Symposium brings together scholars, scientists, and artists across multiple disciplines to explore aspects of music as a human behavior.”*

2018 Program Organizer, Stanford Music and the Brain Symposium: Performance  
2017 Program Organizer, Stanford Music and the Brain Symposium: Engagement  
2016 Program Organizer, Music Information Retrieval/Data Science Symposium

## SKILLS

- Research** Audio feature extraction, data cleaning, data mining, digital signal processing, electroencephalography (EEG), experimental design, Git, human subjects research, industry collaboration, Institutional Review Board (IRB), interview research, LaTeX, machine learning, online studies, physiological responses, remote collaboration, scientific writing and editing, statistics, survey research, thematic analysis.
- Programming/ Apparatus** MATLAB (16 years), Electrical Geodesics, Inc. (15 years), R (15 years), Audacity (14 years), Neurobehavioral Systems Presentation (7 years), Qualtrics (5 years), Wearable Sensing (2 years), C++ (1 year), Chuck (1 year), Intelligent Hearing Systems (1 year), Java (1 year), Python (1 year).
- Music** Flute (15 years), piano (14 years), singing/voice (8 years), music theory (2 years), modal/tonal/post-tonal analysis (3 years), absolute pitch.

## PUBLICATIONS

Also available online: <https://ccrma.stanford.edu/~blairbo/publications.html>

### PUBLICATIONS IN PROGRESS

**Blair Kaneshiro**, Duc T. Nguyen, Anthony M. Norcia, Jacek P. Dmochowski, and Jonathan Berger (in revision). Inter-Subject EEG Correlation Reflects Time-Varying Engagement with Natural Music. bioRxiv 2021.04.14.439913. doi:10.1101/2021.04.14.439913 [[preprint](#)] [[data](#)]

Bernard C. Wang, Nathan C. L. Kong, Feng Ruan, Raymond Gifford, Anthony M. Norcia, and **Blair Kaneshiro** (in preparation). MatClassRSA: A Matlab Toolbox for M/EEG Classification and Visualization of Proximity Matrices. bioRxiv 194563. doi:10.1101/194563 [[preprint](#)] [[code](#)]

### PEER-REVIEWED PAPERS

Neha Rajagopalan and **Blair Kaneshiro** (to appear 2023). Correlation of EEG Responses Reflects Structural Similarity of Choruses in Popular Music. In Proceedings of the 24th International Society for Music Information Retrieval Conference (ISMIR), Milan, Italy. [[pdf](#)]

Fang Wang, **Blair Kaneshiro**, Elizabeth Y. Toomarian, Radhika S. Gosavi, Lindsey R. Hasak, Suanna Moron, Quynh Trang H. Nguyen, Anthony M. Norcia, and Bruce D. McCandliss (2023). Progress in Elementary School Reading Linked to Growth of Cortical Responses to Familiar Letter Combinations Within Visual Word Forms. Developmental Science e13435. doi:10.1111/desc.13435 [[web](#)]

So Yeon Park and **Blair Kaneshiro** (2022). User Perspectives on Critical Factors for Collaborative Playlists. PLoS ONE 17:1, e0260750. doi:10.1371/journal.pone.0260750 [[web](#)]

So Yeon Park, Emily Redmond, Jonathan Berger, and **Blair Kaneshiro** (2022). Hitting Pause: How User Perceptions of Collaborative Playlists Evolved in the United States During the COVID-19 Pandemic. In ACM CHI Conference on Human Factors in Computing Systems (CHI), Article 365, 16 pages. doi:10.1145/3491102.3517604 [[web](#)]

Tysen Dauer, Duc T. Nguyen, Nick Gang, Jacek P. Dmochowski, Jonathan Berger, and **Blair Kaneshiro** (2021). Inter-Subject Correlation While Listening to Minimalist Music: A Study of Electrophysiological and Behavioral Responses to Steve Reich's Piano Phase. Frontiers in Neuroscience 15:702067. doi:10.3389/fnins.2021.702067 [[web](#)] [[data](#)]

So Yeon Park and **Blair Kaneshiro** (2021). Social Music Curation That Works: Insights from Successful Collaborative Playlists. In Proceedings of the 2021 ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW) 5, Article 117, 27 pages. doi:10.1145/3449191 [[web](#)]

So Yeon Park, Nicole Santero, **Blair Kaneshiro**, and Jin Ha Lee (2021). Armed in ARMY: A Case Study of How BTS Fans Successfully Collaborated to #MatchAMillion for Black Lives Matter. In Proceedings of the 39th Annual ACM Conference on Human Factors in Computing Systems (CHI), Article 336, 14 pages. doi:10.1145/3411764.3445353 [\[web\]](#)

Fang Wang, **Blair Kaneshiro**, C. Benjamin Strauber, Lindsey Hasak, Quynh Trang H. Nguyen, Alexandra Yakovleva, Vladimir Y. Vildavski, Anthony M. Norcia, and Bruce D. McCandliss (2021). Distinct Neural Sources Underlying Visual Word Form Processing as Revealed by Steady State Visual Evoked Potentials (SSVEP). Scientific Reports 11, 18229. doi:10.1038/s41598-021-95627-x [\[web\]](#)

**Blair Kaneshiro**, Duc T. Nguyen, Anthony M. Norcia, Jacek P. Dmochowski, and Jonathan Berger (2020). Natural Music Evokes Correlated EEG Responses Reflecting Temporal Structure and Beat. NeuroImage 116559. doi:10.1016/j.neuroimage.2020.116559 [\[web\]](#) [\[data\]](#) [\[code\]](#)

Nathan C. L. Kong, **Blair Kaneshiro**, Daniel L. K. Yamins, and Anthony M. Norcia (2020). Time-Resolved Correspondences Between Deep Neural Network Layers and EEG Measurements in Object Processing. Vision Research 172, 27-45. doi:10.1016/j.visres.2020.04.005 [\[web\]](#)

Steven Losorelli, **Blair Kaneshiro**, Gabriella A. Musacchia, Nikolas H. Blevins, and Matthew B. Fitzgerald (2020). Factors Influencing Classification of Frequency Following Responses to Speech and Music Stimuli. Hearing Research 108101. doi:10.1016/j.heares.2020.108101 [\[web\]](#) [\[data\]](#) [\[code\]](#)

Catherine Manning, **Blair Kaneshiro**, Peter J. Kohler, Mihaela Duta, Gaia Scerif, and Anthony M. Norcia (2019). Neural Dynamics Underlying Coherent Motion Perception in Children and Adults. Developmental Cognitive Neuroscience 38, 100670. doi:10.1016/j.dcn.2019.100670 [\[web\]](#) [\[corrigendum\]](#) [\[OSF code\]](#)

So Yeon Park, Audrey Laplante, Jin Ha Lee, and **Blair Kaneshiro** (2019). Tunes Together: Perception and Experience of Collaborative Playlists. In Proceedings of the 20th International Society for Music Information Retrieval Conference (ISMIR), Delft, The Netherlands. doi:10.5281/zenodo.3527912 [\[pdf\]](#)

Orchisama Das, **Blair Kaneshiro**, and Tom Collins (2018). Analyzing and Classifying Guitarists from Rock Guitar Solo Tablature. In Proceedings of the Sound and Music Computing Conference (SMC), Limassol, Cyprus. doi:10.5281/zenodo.1422569 [\[pdf\]](#)

Duc T. Nguyen and **Blair Kaneshiro** (2018). AudExpCreator: A GUI-Based Matlab Tool for Designing and Creating Auditory Experiments with the Psychophysics Toolbox. SoftwareX 7, 328-334. doi:10.1016/j.softx.2018.09.002 [\[web\]](#) [\[code\]](#)

Nick Gang, **Blair Kaneshiro**, Jonathan Berger, and Jacek P. Dmochowski (2017). Decoding Neurally Relevant Musical Features Using Canonical Correlation Analysis. In Proceedings of the 18th International Society for Music Information Retrieval Conference (ISMIR), Suzhou, China. doi:10.5281/zenodo.1417137 [\[pdf\]](#) [\[data\]](#) [\[code\]](#)

**Blair Kaneshiro**, Feng Ruan, Casey W. Baker, and Jonathan Berger (2017). Characterizing Listener Engagement with Popular Songs Using Large-Scale Music Discovery Data. Frontiers in Psychology 8:146. doi:10.3389/fpsyg.2017.00416 [\[web\]](#) [\[data\]](#)

Steven Losorelli, Duc T. Nguyen, Jacek P. Dmochowski, and **Blair Kaneshiro** (2017). NMED-T: A Tempo-Focused Dataset of Cortical and Behavioral Responses to Naturalistic Music. In Proceedings of the 18th International Society for Music Information Retrieval Conference (ISMIR), Suzhou, China. doi:10.5281/zenodo.1417917 [\[pdf\]](#) [\[data\]](#) [\[code\]](#)

Jack Atherton and **Blair Kaneshiro** (2016). I Said It First: Topological Analysis of Lyrical Influence Networks. In Proceedings of the 17th International Society for Music Information Retrieval Conference (ISMIR), New York, USA. doi:10.5281/zenodo.1418047 [\[pdf\]](#) [\[data\]](#)



**Blair Kaneshiro** and Jacek P. Dmochowski (2015). Neuroimaging Methods for Music Information Retrieval: Current Findings and Future Prospects. In Proceedings of the 16th International Society for Music Information Retrieval Conference (ISMIR), Málaga, Spain. doi:10.5281/zenodo.1416082 [\[pdf\]](#)

**Blair Kaneshiro**, Marcos Perreau Guimaraes, Hyung-Suk Kim, Anthony M. Norcia, and Patrick Suppes (2015). A Representational Similarity Analysis of the Dynamics of Object Processing Using Single-Trial EEG Classification. PLoS ONE 10:8, e0135697. doi:10.1371/journal.pone.0135697 [\[web\]](#) [\[data1\]](#) [\[data2\]](#)

**Blair Kaneshiro**, Hyung-Suk Kim, Jorge Herrera, Jieun Oh, Jonathan Berger, and Malcolm Slaney (2013). QBT-Extended: An Annotated Dataset of Melodically Contoured Tapped Queries. In Proceedings of the 14th International Society for Music Information Retrieval Conference (ISMIR), Curitiba, Brazil. doi:10.5281/zenodo.1415756 [\[pdf\]](#) [\[web\]](#) [\[github\]](#)

Rebecca S. Schaefer, Shinichi Furuya, Leigh M. Smith, **Blair Kaneshiro**, and Petri Toiviainen (2012). Probing Neural Mechanisms of Music Perception, Cognition, and Performance Using Multivariate Decoding. Psychomusicology: Music, Mind, and Brain 22:2, 168-174. doi:10.1037/a0031014 [\[web\]](#)

## DOCTORAL DISSERTATION

**Blair Kaneshiro** (2016). Toward an Objective Neurophysiological Measure of Musical Engagement. Doctoral Dissertation, Stanford University. [\[pdf\]](#) [\[web\]](#)

## PUBLISHED CONFERENCE PROCEEDINGS

Lloyd May, Aaron Hodges, So Yeon Park, **Blair Kaneshiro**, and Jonathan Berger (2023). Toward a Tool for Music Personalization by Cochlear Implant Users. Proceedings of Workshops at the International Conference on Intelligent User Interfaces (IUI), 3rd Workshop on Intelligent Music Interfaces for Listening and Creation (MILC), Sydney Australia. [\[pdf\]](#)

Jay Appaji, Jacek P. Dmochowski, and **Blair Kaneshiro** (2020). Modelling Perception of Rhythmic Complexity: Computational and Neural Measures. In Extended Abstracts for the Late-Breaking Demo Session of the 21st International Society for Music Information Retrieval Conference (ISMIR), Virtual Conference. [\[pdf\]](#) [\[web\]](#)

Elena Georgieva, Camille Noufi, Vidya Rangasayee, **Blair Kaneshiro**, and Jonathan Berger (2020). An Evaluation Tool for Subjective Evaluation of Amateur Vocal Performances of “Amazing Grace”. In Extended Abstracts for the Late-Breaking Demo Session of the 21st International Society for Music Information Retrieval Conference (ISMIR), Virtual Conference. [\[pdf\]](#) [\[web\]](#)

**Blair Kaneshiro**, Brandi Frisbie, Elena Georgieva, and Daniel P. W. Ellis (2019). Characterizing Musical Correlates of Large-Scale Discovery Behavior.\* Machine Learning for Music Discovery Workshop (ML4MD) at the International Conference on Machine Learning (ICML), Long Beach, USA. \*Invited talk [\[pdf\]](#)

**Blair Kaneshiro**, Duc T. Nguyen, Jacek P. Dmochowski, Anthony M. Norcia, and Jonathan Berger (2019). Naturalistic Music EEG Dataset - Hindi (NMED-H) 2.0: New Release and Cross-Dataset Compatibility. In Extended Abstracts for the Late-Breaking Demo Session of the 20th International Society for Music Information Retrieval Conference (ISMIR), Delft, The Netherlands. [\[pdf\]](#)

Nathan C. L. Kong, **Blair Kaneshiro**, and Anthony M. Norcia (2019). Time-Resolved Correspondences Between a Deep Feed-Forward Neural Network and Human Object Processing: EEG Measurements. 2019 Conference on Cognitive Computational Neuroscience (CCN), Berlin, Germany. doi:10.32470/CCN.2019.1082-0 [\[pdf\]](#)

Camille Noufi, Vidya Rangasayee, Sarah Ciresi, Jonathan Berger, and **Blair Kaneshiro** (2019). A Model-Driven Exploration of Accent Within the Amateur Singing Voice. Machine Learning for Music Discovery Workshop (ML4MD) at the International Conference on Machine Learning (ICML), Long Beach, USA. [\[pdf\]](#)

Jay Appaji and **Blair Kaneshiro** (2018). Neural Tracking of Simple and Complex Rhythms: Pilot Study and Dataset. In Extended Abstracts for the Late-Breaking Demo Session of the 19th International Society for Music Information Retrieval Conference (ISMIR), Paris, France. [\[pdf\]](#)

Elena Georgieva and **Blair Kaneshiro** (2018). Impact of Familiarity on Music Preference During Simulated Cochlear-Implant Listening. In Extended Abstracts for the Late-Breaking Demo Session of the 19th International Society for Music Information Retrieval Conference (ISMIR), Paris, France. [\[pdf\]](#)

**Blair Kaneshiro** and Jacek P. Dmochowski (2018). Evidence of Beat Entrainment in Maximally Reliable Cortical Responses to Natural Music. In Extended Abstracts for the Late-Breaking Demo Session of the 19th International Society for Music Information Retrieval Conference (ISMIR), Paris, France. [\[pdf\]](#)

So Yeon Park and **Blair Kaneshiro** (2017). An Analysis of User Behavior in Co-Curation of Music Through Collaborative Playlists. In Extended Abstracts for the Late-Breaking Demo Session of the 18th International Society for Music Information Retrieval Conference (ISMIR), Suzhou, China. [\[pdf\]](#)

Nick Gang and **Blair Kaneshiro** (2016). A Feature-Based Approach to Modeling Expert Musical Insights: The Max Martin Coefficient. In Extended Abstracts for the Late-Breaking Demo Session of the 17th International Society for Music Information Retrieval Conference (ISMIR), New York, USA. [\[pdf\]](#)

**Blair Kaneshiro**, Duc T. Nguyen, Jacek P. Dmochowski, Anthony M. Norcia, and Jonathan Berger (2016). Neurophysiological and Behavioral Measures of Musical Engagement. In Proceedings of the 14th International Conference on Music Perception and Cognition (ICMPC), San Francisco, USA. [\[pdf\]](#)

**Blair Kaneshiro**, Jacek P. Dmochowski, Anthony M. Norcia, and Jonathan Berger (2014). Toward an Objective Measure of Listener Engagement with Natural Music Using Inter-Subject EEG Correlation. In Proceedings of the 13th International Conference on Music Perception and Cognition and the 5th Triennial Conference of the Asia-Pacific Society for the Cognitive Sciences of Music (ICMPC-APSCOM), Seoul, Korea. [\[pdf\]](#)

Kristin Kueter, **Blair Kaneshiro**, and Jonathan Berger (2014). Cherishing the Error: Clashing Schemas and Cognitive Bias in Piano Performance. In Proceedings of the 13th International Conference on Music Perception and Cognition and the 5th Triennial Conference of the Asia-Pacific Society for the Cognitive Sciences of Music (ICMPC-APSCOM), Seoul, Korea. [\[pdf\]](#)

Megha Makam, **Blair Kaneshiro**, and Jonathan Berger (2014). Capoeira Interaction as a Model of Expectation Formulation and Violation in Real-Time Improvised Performance. In Proceedings of the 13th International Conference on Music Perception and Cognition and the 5th Triennial Conference of the Asia-Pacific Society for the Cognitive Sciences of Music (ICMPC-APSCOM), Seoul, Korea. [\[pdf\]](#)

**Blair Kaneshiro**, Jonathan Berger, Marcos Perreau Guimaraes, and Patrick Suppes (2012). An Exploration of Tonal Expectation Using Single-Trial EEG Classification. In Proceedings of the 12th International Conference on Music Perception and Cognition and the 8th Triennial Conference of the European Society for the Cognitive Sciences of Music (ICMPC-ESCOM), Thessaloniki, Greece. [\[pdf\]](#)

Hyung-Suk Kim, **Blair Kaneshiro**, and Jonathan Berger (2012). Tap-It: An iOS App for Sensori-Motor Synchronization (SMS) Experiments. In Proceedings of the 12th International Conference on Music Perception and Cognition and the 8th Triennial Conference of the European Society for the Cognitive Sciences of Music (ICMPC-ESCOM), Thessaloniki, Greece. [\[pdf\]](#) [\[github\]](#)

## SOFTWARE AND DATASETS

Tysen Dauer, Duc T. Nguyen, Nick Gang, Jacek P. Dmochowski, Jonathan Berger, and **Blair Kaneshiro** (2021). Naturalistic Music EEG Dataset - Minimalism (NMED-M). Stanford Digital Repository. [\[dataset\]](#) [\[paper\]](#)

**Blair Kaneshiro**, Duc T. Nguyen, Anthony M. Norcia, Jacek P. Dmochowski, and Jonathan Berger (2021). Naturalistic Music EEG Dataset - Elgar (NMED-E). Stanford Digital Repository. [\[dataset\]](#) [\[preprint\]](#)

Steven Losorelli, **Blair Kaneshiro**, Gabriella A. Musacchia, Karanvir Singh, Nikolas H. Blevins, and Matthew B. Fitzgerald (2019). Stanford Translational Auditory Research - Frequency-Following Response Dataset 1 (STAR-FFR-01). Stanford Digital Repository. [\[dataset\]](#) [\[paper\]](#)

Jay Appaji and **Blair Kaneshiro** (2018). Naturalistic Music EEG Dataset - Rhythm Pilot (NMED-RP). Stanford Digital Repository. [\[dataset\]](#)

Steven Losorelli, Duc T. Nguyen, Jacek P. Dmochowski, and **Blair Kaneshiro** (2017). Naturalistic Music EEG Dataset - Tempo (NMED-T). Stanford Digital Repository. [\[dataset\]](#) [\[paper\]](#)

Duc T. Nguyen and **Blair Kaneshiro** (2017). AudExpCreator Software Package. Stanford Digital Repository. [\[code\]](#) [\[paper\]](#)

Jack Atherton and **Blair Kaneshiro** (2016). Lyrical Influence Networks Dataset (LIND). Stanford Digital Repository. [\[dataset\]](#) [\[paper\]](#)

**Blair Kaneshiro**, Duc T. Nguyen, Jacek P. Dmochowski, Anthony M. Norcia, and Jonathan Berger (2016). Naturalistic Music EEG Dataset - Hindi (NMED-H). Stanford Digital Repository. [\[dataset\]](#) [\[paper\]](#)

Hyung-Suk Kim, **Blair Kaneshiro**, and Anthony M. Norcia (2016). Software Tools in R for Visualizing Proximity Matrices. Stanford Digital Repository. [\[code\]](#)

**Blair Kaneshiro**, Steinunn Arnardóttir, Anthony M. Norcia, and Patrick Suppes (2015). Object Category EEG Dataset. Stanford Digital Repository. [\[dataset\]](#)

**Blair Kaneshiro**, Duc T. Nguyen, Jonathan Berger, and Patrick Suppes (2015). EEG-Recorded Responses to Short Chord Progressions. Stanford Digital Repository. [\[dataset\]](#) [\[proceedings\]](#)

**Blair Kaneshiro**, Marcos Perreau Guimaraes, Hyung-Suk Kim, Anthony M. Norcia, and Patrick Suppes (2015). EEG data analyzed in "A Representational Similarity Analysis of the Dynamics of Object Processing Using Single-Trial EEG Classification". Stanford Digital Repository. [\[dataset\]](#) [\[paper\]](#)

## WORKSHOPS, TUTORIALS, AND SYMPOSIA

**Blair Kaneshiro** (2023). International Society for Music Information Retrieval (ISMIR) Review Process Workshop. Virtual Workshop.

**Blair Kaneshiro** and Jordan B. L. Smith (2021). International Society for Music Information Retrieval (ISMIR) Diversity Summit. Virtual Workshop.

**Blair Kaneshiro** and Douglas Eck (2016). Leveraging Large-Scale Industrial Data to Study Musical Engagement. Symposium at the 14th International Conference on Music Perception and Cognition (ICMPC), San Francisco, USA.

Karanvir Singh and **Blair Kaneshiro** (2016). An Interactive Introduction to Bhangra. Workshop at the 14th International Conference on Music Perception and Cognition (ICMPC), San Francisco, USA.

Sebastian Stober and **Blair Kaneshiro** (2016). Introduction to EEG Decoding for Music Information Retrieval Research. Tutorial at the 17th International Society for Music Information Retrieval Conference (ISMIR), New York, USA.

Megha Makam, **Blair Kaneshiro**, and Jonathan Berger (2014). An Interactive Introduction to the Music and Movements of Brazilian Capoeira. Workshop at the 13th International Conference on Music Perception and Cognition and the 5th Triennial Conference of the Asia-Pacific Society for the Cognitive Sciences of Music (ICMPC-APSCOM), Seoul, Korea.

## INVITED TALKS

**Blair Kaneshiro** (2022). Facilitating Interdisciplinary Music Research Through Open Data. Invited talk, Datasounds, Datasets, and Datasense Research Network, Virtual Talk.

**Blair Kaneshiro** (2022). Toward Ecologically Valid Music Neuroscience. Invited talk, Music, Mind, Movement, and Technology Workshop, Bengaluru, India and Virtual Talk.

**Blair Kaneshiro** (2020). Decoding the Music-Listening Brain using Electroencephalography. Invited talk, University of Alaska Anchorage College of Engineering Professional Development Seminar, Virtual Talk.

**Blair Kaneshiro** (2019). Auditory Neuroscience. Invited talk, SfN Wonder 2019: Exploring the Human Mind, Bay Area Society for Neuroscience Youth Chapter, Palo Alto, USA.

**Blair Kaneshiro** (2019). Neural Correlation During Natural Music Listening. Invited talk, Stanford University Department of Psychology FriSem, Stanford, USA.

**Blair Kaneshiro** (2018). Music Discovery. Invited talk, Leonardo Art Science Evening Rendezvous (LASER), Stanford, USA.

**Blair Kaneshiro** (2018). Reliability of Audience Responses as a Measure of Engagement. Invited talk, #EmoJam: Hacking Emotion in Interactive Media, San Francisco, USA.

**Blair Kaneshiro** (2017). Analyzing Cortical Responses to Naturalistic Music. Invited talk, San Jose State University CS286: Computational Creativity, San Jose, USA.

**Blair Kaneshiro** (2016). Neuroscientific Approaches to Music Information Retrieval. Invited talk, CCRMA Music Information Retrieval Workshop, Stanford, USA.

**Blair Kaneshiro** (2016). A Cortical Synchrony Approach to the Study of Musical Engagement. Invited talk, Bay Innovative Signal Hackers Bash (BISH Bash) Meetup, Oakland, USA.

**Blair Kaneshiro** (2016). From Brain Data to Big Data: New Approaches for Investigating Musical Engagement. Invited talk, Stanford Music and the Brain Symposium 2016: Resonance, Stanford, USA.

**Blair Kaneshiro** (2015). Connecting Neuroimaging with Music Information Retrieval. Invited talk, CCRMA Hearing Seminar, Stanford, USA.

## INVITED PANELS AND SESSIONS

Johanna Devaney, Zhiyao Duan, Katherine M. Kinnaird, Doug Turnbull, and **Blair Kaneshiro** (moderator) (2021). Broadening D&I. Diversity & Inclusion Special Session at the 22nd International Society for Music Information Retrieval Conference (ISMIR), Virtual Event.

Frank Russo, Elaine Chew, Gus Xia, **Blair Kaneshiro**, and Ye Wang (moderator) (2021). MIR for Human Health and Potential Panel. Special Session at the 22nd International Society for Music Information Retrieval Conference (ISMIR), Virtual Event.

**Blair Kaneshiro** (2020). Notable Women in Music Information Retrieval (WiMIR). Invited meetup session at the 21st International Society for Music Information Retrieval Conference (ISMIR), Virtual Event.

Junqi Deng, Anssi Klapuri, Matthew McCallum, John Neuharth, Avery Wang, and **Blair Kaneshiro** (moderator) (2017). Industry Panel. Plenary session at the 18th International Society for Music Information Retrieval Conference (ISMIR), Suzhou, China.

Caroline B. Hornburg, **Blair Kaneshiro**, Elizabeth Necka, Joel G. Sprunger, and Nichol Castro (moderator) (2016). The Naked Truth Part II: Surviving Graduate School. Invited panel, Association for Psychological Science 28th Annual Convention (APS), Chicago, USA.

**Blair Kaneshiro**, Anja Volk, and Emilia Gomez (2016). Women in MIR. Plenary session at the 17th International Society for Music Information Retrieval Conference (ISMIR), New York, USA. [\[web\]](#)

## TALKS AND POSTERS

Madison Bunderson, **Blair Kaneshiro**, and Bruce McCandliss (to appear 2023). Exploring Brain-Behavior Connections in Narrative Engagement Using EEG Inter-Subject Correlation. Poster presentation at the 19th IGEL Conference, Monopoli, Italy.

Lindsey Hasak, **Blair Kaneshiro**, Trang Nguyen Grant, Fang Wang, Alexandra Yakovleva, Vladimir Vildavski, Anthony M. Norcia, and Bruce D. McCandliss (2023). Steady-State EEG Measures How Directed Attention Impacts Audiovisual Integration of Letters and Speech Sounds. Poster presentation at the 30th Anniversary Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, USA.

**Blair Kaneshiro** (2023). The Science of Musical Engagement. University of Alaska Anchorage Virtual Poster Fair, Virtual Event.

Neha Rajagopalan and **Blair Kaneshiro** (to appear 2023). Exploring Structural Repetition in Natural Music using EEG Correlation. Poster presentation at the 17th International Conference on Music Perception and Cognition and the 7th Conference of the Asia-Pacific Society for the Cognitive Sciences of Music (ICMPC-APSCOM), Tokyo, Japan.

Amandine Van Rinsveld, **Blair Kaneshiro**, Mathieu Guillaume, Anthony M. Norcia, and Bruce D. McCandliss (2023). Dynamics of Number Processing Levels as Emerging at Different Paces of Presentation: An SSVEP Study. Poster presentation at the 30th Anniversary Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, USA.

Fang Wang, **Blair Kaneshiro**, Elizabeth Y. Toomarian, Radhika S. Gosavi, Suanna Moron, Lindsey Hasak, Quynh Trang H. Nguyen, Anthony M. Norcia, and Bruce D. McCandliss (2023). Progress in Elementary School Reading Linked to Growth of Cortical Responses Reflecting Statistical Learning Within Visual Word Forms. Poster presentation at the 30th Anniversary Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, USA.

Lloyd May, So Yeon Park, Aaron Hodges, **Blair Kaneshiro**, and Jonathan Berger (2022). Designing for Empathetic Listening Interactions. Poster presentation at the Music & Hearing Health Workshop, Oldenburg, Germany.

Amandine Van Rinsveld, Matthew Guillaume, **Blair Kaneshiro**, Anthony M. Norcia, and Bruce D. McCandliss (2022). Untangling Real-Time Abstract Number Perception from the Many Concrete Perceptual Dimensions: An SSVEP Study. Poster presentation at the 29th Annual Meeting of the Cognitive Neuroscience Society (CNS), San Francisco, USA.

Lindsey Hasak, **Blair Kaneshiro**, Quynh Trang H. Nguyen, Fang Wang, Alexandra Yakovleva, Vladimir Y. Vildavski, Anthony M. Norcia, and Bruce D. McCandliss (2021). Capturing Audiovisual Integration Effects With Steady-State EEG. Poster presentation at the ARO 2021 Virtual MidWinter Meeting, Virtual Conference.

Lindsey Hasak, **Blair Kaneshiro**, Quynh Trang H. Nguyen, Fang Wang, Alexandra Yakovleva, Vladimir Y. Vildavski, Anthony M. Norcia, and Bruce D. McCandliss (2021). Capturing Audiovisual Integration Effects With Steady-State EEG. Poster presentation at the CNS 2021 Virtual Meeting, Virtual Conference.

Lindsey Hasak, **Blair Kaneshiro**, Quynh Trang H. Nguyen, Fang Wang, Alexandra Yakovleva, Vladimir Y. Vildavski, Anthony M. Norcia, and Bruce D. McCandliss (2021). Steady-State EEG Components Elucidate Unimodal and Multisensory Aspects of Letter-Sound Processing. Poster presentation at the OHBM 2021 Annual Meeting, Virtual Conference.

Fang Wang, **Blair Kaneshiro**, Lindsey Hasak, C. Benjamin Strauber, Quynh Trang H. Nguyen, Anthony M. Norcia, and Bruce D. McCandliss (2021). Neural Sources of Visual Word Form Processing Revealed by Steady-State Visual Evoked Potentials. Poster presentation at the OHBM 2021 Annual Meeting, Virtual Conference.

Steven Losorelli, Gabriella Musacchia, Vivian Lou, **Blair Kaneshiro**, Nikolas Blevins, and Matthew Fitzgerald (2020). Relationships Between Perception, the Frequency Following Response and Acoustic Features of Speech and Music Stimuli. Spoken presentation at the ARO 2020 MidWinter Meeting, San Jose, USA.

Fang Wang, Lindsey Hasak, **Blair Kaneshiro**, Ben Strauber, Vladimir Y. Vildavski, Quynh Trang Huong Nguyen, Alexandra Yakovleva, Anthony M. Norcia, and Bruce D. McCandliss (2020). Temporal Dynamics of the Hierarchy of Neural Sources Underlying Visual Word Form Processing as Revealed by Steady State Visual Evoked Potentials (SSVEP). Poster presentation at the Bay Area Vision Research Day (BAVRD), Virtual Conference.

Jay Appaji and **Blair Kaneshiro** (2019). Preference and Perceived Complexity for Rhythms in Isolation and Embedded in Real-World Music. Poster presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), New York, USA.

Steven Losorelli, **Blair Kaneshiro**, Gabriella A. Musacchia, Nikolas H. Blevins, and Matthew B. Fitzgerald (2019). Assessing Contributions of Magnitude and Phase in Decoding Frequency Following Responses. Poster presentation at the ARO 2019 MidWinter Meeting, Baltimore, USA.

Vivian Lou, Steven Losorelli, **Blair Kaneshiro**, Gabriella A. Musacchia, Steven Gianakas, Nikolas H. Blevins, and Matthew B. Fitzgerald (2019). Classification of Electrophysiologic Responses to Speech Processed Through an Acoustic Simulation of a Cochlear Implant. Poster presentation at the ARO 2019 MidWinter Meeting, Baltimore, USA.

Tysen Dauer, **Blair Kaneshiro**, and Jonathan Berger (2018). Responding to Reich: Continuous Behavioral Responses to Steve Reich's 'Piano Phase'. Poster presentation at Stanford Music and the Brain Symposium 2018: Performance, Stanford, USA.

Elena Georgieva and **Blair Kaneshiro** (2018). Music, Familiarity, and Preference. Poster presentation at Stanford Music and the Brain Symposium 2018: Performance, Stanford, USA.

Elena Georgieva and **Blair Kaneshiro** (2018). Using Spotify Audio Features to Study the Evolution of Pop Music. Poster presentation at Women in Music Information Retrieval 1st Annual Workshop (WiMIR), Paris, France.

**Blair Kaneshiro** (2018). Musical Novelty and Engagement. Poster presentation at Women in Music Information Retrieval 1st Annual Workshop (WiMIR), Paris, France.

**Blair Kaneshiro** and Jacek P. Dmochowski (2018). Inter-Subject Coherence of Evoked EEG Implicates Entrainment to the Beat During Natural Music Listening. Poster presentation at the Association for Psychological Science 30th Annual Convention (APS), San Francisco, USA.

**Blair Kaneshiro**, Steven Losorelli, Gabriella A. Musacchia, Nikolas H. Blevins, and Matthew B. Fitzgerald (2018). Assessing Temporal Dynamics of Auditory Processing Through Classification of Subcortical and Cortical Responses to Speech and Music Sounds. Spoken presentation at the ARO 2018 MidWinter Meeting, San Diego, USA.



Nathan C. L. Kong, **Blair Kaneshiro**, Daniel L. K. Yamins, and Anthony M. Norcia (2018). Methods for Comparing Models with EEG Data Using Representational Similarity Analysis. Poster presentation at the Society for Neuroscience 48th Annual Meeting (SfN), San Diego, USA.

So Yeon Park and **Blair Kaneshiro** (2018). Technology-Mediated Co-Curation of Music Enhances the Illusion, but Not the Experience, of Shared Social Ownership and Collaboration. Poster presentation at the Association for Psychological Science 30th Annual Convention (APS), San Francisco, USA.

Tysen Dauer, **Blair Kaneshiro**, Duc T. Nguyen, Nick Gang, and Jonathan Berger (2017). Engaging with Reich: Using Inter-Subject Correlations to Find Patterns of Engagement with Early Minimalism. Poster presentation at Stanford Music and the Brain Symposium 2017: Engagement, Stanford, USA.

Tysen Dauer, **Blair Kaneshiro**, Duc T. Nguyen, Nick Gang, and Jonathan Berger (2017). Measuring Patterns of Engagement with Minimalist Music Using Inter-Subject EEG Correlation. Spoken presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), San Diego, USA.

Nick Gang, **Blair Kaneshiro**, Jonathan Berger, and Jacek P. Dmochowski (2017). Deriving Maximally Correlated Stimulus-to-Response Mappings Using Naturalistic Music and Ongoing EEG. Spoken presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), San Diego, USA.

Nick Gang, **Blair Kaneshiro**, Jonathan Berger, and Jacek P. Dmochowski (2017). Hybrid Encoding-Decoding of Stimulus Features and Cortical Responses During Natural Music Listening. Poster presentation at Stanford Music and the Brain Symposium 2017: Engagement, Stanford, USA.

Alan Y. Huang, **Blair Kaneshiro**, and Duc T. Nguyen (2017). Analyzing the Influence of Listener Characteristics on Physiological Responses to Music. Poster presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), San Diego, USA.

**Blair Kaneshiro** (2017). Music, Engagement, and the Brain. Spoken presentation at Stanford Music and the Brain Symposium 2017: Engagement, Stanford, USA.

**Blair Kaneshiro**, Tom Collins, Duc T. Nguyen, and Jonathan Berger (2017). Investigating the Impact of Tonal and Temporal Structure on Perception of Chord Progressions. Spoken presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), San Diego, USA.

**Blair Kaneshiro** and Jacek P. Dmochowski (2017). Exploring the Representation of Musical Beat in Ongoing EEG Using Component Analysis. Poster presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), San Diego, USA.

**Blair Kaneshiro**, Duc T. Nguyen, Jacek P. Dmochowski, Anthony M. Norcia, and Jonathan Berger (2017). Factors Determining Temporal Reliability of Ongoing EEG Responses to Naturalistic Music. Poster presentation at the OHBM 2017 Annual Meeting, Vancouver, Canada.

Steven Losorelli, Matthew B. Fitzgerald, Gabriella A. Musacchia, **Blair Kaneshiro**, and Nikolas H. Blevins (2017). Classification of Auditory Stimuli Using Auditory Evoked Potentials. Poster presentation at the ARO 2017 MidWinter Meeting, Baltimore, USA.

Steven Losorelli, Matthew B. Fitzgerald, Gabriella A. Musacchia, **Blair Kaneshiro**, and Nikolas H. Blevins (2017). Classification of Brainstem Auditory Evoked Responses to Music and Speech Sounds. Poster presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), San Diego, USA.

Duc T. Nguyen and **Blair Kaneshiro** (2017). A GUI-Based MATLAB Tool for Auditory Experiment Design and Creation. Poster presentation at Stanford Music and the Brain Symposium 2017: Engagement, Stanford, USA.

Vidya Rangasayee and **Blair Kaneshiro** (2017). Hot Days and Cool Songs: Impact of Local Weather on Music Choice. Poster presentation at Stanford Music and the Brain Symposium 2017: Engagement, Stanford, USA.

Bernard C. Wang and **Blair Kaneshiro** (2017). Comparing Representational Similarity Analysis Techniques for Studying the Processing of Tonal Categories. Poster presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), San Diego, USA.

Bernard C. Wang, Anthony M. Norcia, and **Blair Kaneshiro** (2017). MatClassRSA: A Matlab Toolbox for EEG Classification and RSA Visualization. Poster presentation at Stanford Music and the Brain Symposium 2017: Engagement, Stanford, USA.

**Blair Kaneshiro** and Casey W. Baker (2016). Musical Correlates of Large-Scale Song Discovery: A Shazam Study. Spoken presentation at the 14th International Conference on Music Perception and Cognition (ICMPC), San Francisco, USA.

**Blair Kaneshiro**, Tom Collins, Anthony M. Norcia, and Jonathan Berger (2016). Using Representational Similarity Analysis to Study Perception of Tonal Categories. Poster presentation at CogMIR: Cognitively Based Music Informatics Research, New York, USA.

**Blair Kaneshiro**, Jacek P. Dmochowski, Duc T. Nguyen, Anthony M. Norcia, and Jonathan Berger (2016). Inter-Subject Correlations of Ongoing EEG Reflect Temporal Organization of Naturalistic Music Stimuli. Poster presentation at the Association for Psychological Science 28th Annual Convention (APS), Chicago, USA.

**Blair Kaneshiro**, Jacek P. Dmochowski, Duc T. Nguyen, Anthony M. Norcia, and Jonathan Berger (2016). Using Synchrony of Cortical, Physiological, and Behavioral Responses to Index Listener Engagement with Naturalistic Music. Poster presentation at the Third Annual Symposium of the Stanford Neurosciences Institute, Stanford, USA.

Steven Losorelli, **Blair Kaneshiro**, and Jonathan Berger (2016). Representation of Musical Beat in Scalp-Recorded EEG Responses: A Comparison of Spatial Filtering Techniques. Poster presentation at the 14th International Conference on Music Perception and Cognition (ICMPC), San Francisco, USA.

**Blair Kaneshiro** and Jonathan Berger (2015). A Narrative Framework for Musical Engagement. Poster presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), Nashville, USA.

**Blair Kaneshiro**, Lewis Kaneshiro, Casey W. Baker, and Jonathan Berger (2015). Large-Scale Music Discovery Behavior: Effects of Genre and Geography. Poster presentation at the biennial meeting of the Society for Music Perception and Cognition (SMPC), Nashville, USA.

**Blair Kaneshiro**, Marcos Perreau Guimaraes, Hyung-Suk Kim, Anthony M. Norcia, and Patrick Suppes (2015). A Representational Similarity Analysis of the Dynamics of Object Processing Using Single-Trial EEG Classification. Poster presentation at the Second Annual Symposium of the Stanford Neurosciences Institute, Stanford, USA.

Jacek P. Dmochowski, **Blair Kaneshiro**, Anthony M. Norcia, and Jonathan Berger (2014). Deriving the Neural Signatures of Musical Features Using Canonical Correlation Analysis. Spoken presentation at CogMIR: Cognitively Based Music Informatics Research, Toronto, Canada.

Jorge Herrera, Hyung-Suk Kim, and **Blair Kaneshiro** (2014). MIREX 2014: Query by Tapping. Poster presentation in MIREX session at the 15th International Society for Music Information Retrieval Conference (ISMIR), Taipei, Taiwan.

**Blair Kaneshiro**, Marcos Perreau Guimaraes, Patrick Suppes, and Anthony M. Norcia (2014). Visual Object Categories and Exemplars Can Be Decoded from Single-Trial EEG. Poster presentation at the Association for Psychological Science 26th Annual Convention (APS), San Francisco, USA.



**Blair Kaneshiro**, Luke Dahl, Megha Makam, Marcos Perreau Guimaraes, Jonathan Berger, and Patrick Suppes (2012). Musical Meter Induction and Preservation Can Be Classified in Single EEG Trials. Poster presentation at the Association for Psychological Science 24th Annual Convention (APS), Chicago, USA.

**Blair Bohannon**, Hiroko Terasawa, Steinunn Arnardóttir, Marcos Perreau Guimaraes, and Patrick Suppes (2010). Perceptual and Neural Representation of the Temporal Attribute of Timbre. Spoken presentation at the 11th International Conference on Music Perception and Cognition (ICMPC), Seattle, USA.

**Blair Bohannon**, Marcos Perreau Guimaraes, Jonathan Abel, Claudio Carvalhaes, Logan Grosenick, and Patrick Suppes (2009). Basic Elements of Music Can Be Classified in the EEG. Poster presentation at the Association for Psychological Science 21st Annual Convention (APS), San Francisco, USA.

## OTHER

Co-author of various blog posts for Women in Music Information Retrieval (<https://wimir.wordpress.com/>) and the 22nd International Society for Music Information Retrieval Conference (ISMIR2021) (<https://ismir2021.ismir.net/blog/>).

Amanda Krause and **Blair Kaneshiro** (moderator) (2020). Everyday Experiences of Music: A Fireside Chat with Dr. Amanda Krause. Women in Music Information Retrieval 3rd Annual Workshop (WiMIR), Virtual Event.

**Blair Kaneshiro** (2016). Promoting Diversity in Music Information Retrieval. Spoken presentation at Libations and Rotations presented by Amazon Music in collaboration with Women in Music Information Retrieval, San Francisco, USA.

Jorge Herrera, Hyung-Suk Kim, and **Blair Kaneshiro** (2014). Contour String Matching for Query by Tapping: A MIREX 2014 Submission. Submission to the 10th Music Information Retrieval Evaluation eXchange.

**Blair Kaneshiro**, Micah Siegel, and Fred Gibbons (2012). EE204: Business Management for Electrical Engineers and Computer Scientists. Course positioning paper. [[pdf](#)] [[web](#)]

**Blair Bohannon**, Jorge Herrera, and Lewis Kaneshiro (2010). Across-Subject Classification of Single EEG Trials. Stanford CS229 final project. [[pdf](#)]