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Behzad Haki

Education

- 2020–
Ongoing **PhD**, *Universitat Pompeu Fabra*, Barcelona, Spain
- 2017–2018 **Master in Sound and Music Computing**, *Universitat Pompeu Fabra*, Barcelona, Spain
- 2008–2013 **BASc in Electrical Engineering**, *University of British Columbia*, Vancouver, Canada

Publications

Behzad Haki, Błażej Kotowski, Cheuk Lee, and Sergi Jorda. TapTamDrum: A Dataset for Dualized Drum Patterns. In *Proceedings of the 24th International Society for Music Information Retrieval Conference*. ISMIR, November 2023.

Behzad Haki, Julian Lenz, and Sergi Jorda. NeuralMidiFx: A Wrapper Template for Deploying Neural Networks as VST3 Plugins. In *Proceedings of the 4th International Conference on AI and Musical Creativity*, September 2023.

Behzad Haki, Teresa Pelinski, Marina Nieto, and Sergi Jorda. Completing Audio Drum Loops with Symbolic Drum Suggestions. In *Proceedings of the International Conference on New Interfaces for Musical Expression (NIME) 2023*. NIME, April 2023.

Behzad Haki, Marina Nieto, Teresa Pelinski, and Sergi Jordà. Real-Time Drum Accompaniment Using Transformer Architecture. In *Proceedings of the 3rd International Conference on AI and Musical Creativity*. AIMC, September 2022.

Thomas Nuttall, Behzad Haki, and Sergi Jorda. Transformer neural networks for automated rhythm generation. In *Proceedings of the International Conference on New Interfaces for Musical Expression*, Shanghai, China, June 2021.

Behzad Haki and Sergi Jorda. A bassline generation system based on sequence-to-sequence learning. In Marcelo Queiroz and Anna Xambó Sedó, editors, *Proceedings of the International Conference on New Interfaces for Musical Expression*, pages 204–209, Porto Alegre, Brazil, June 2019. UFRGS.

Teaching Experience

- Fall 2019 **Introduction To Python Programming (First Year Engineering)**,
*Universitat Pompeu Fabra (UPF), Department of Information and Communications
Technologies (DTIC)*
- Winter 2020 **Electronic Music Production Lab (Fourth Year Engineering)**, *UPF, DTIC*
- Winter 2023 **Computer Organization (First Year Engineering)**, *UPF, DTIC*
- Winter 2021, 2022, 2023 **Computational Music Creativity (Masters)**, *UPF, DTIC*

Supervisions

- 2019-20 **3 Master Students, 1 Undergraduate Student**, *UPF, DTIC*
- 2020-21 **3 Master Students**, *UPF, DTIC*
- 2022-23 **3 Master Students, 2 Undergraduate Student**, *UPF, DTIC*

Conference Reviewer

- 2020 **New Interfaces for Musical Expression Conference (NIME)**
- 2023 **International Conference on on AI and Musical Creativity (AIMC)**

Work Experience

- 2014–2019 **Acoustic Engineer**, *BAP Acoustics, Vancouver, Canada*
- Conduct noise and vibration measurements
 - Model and simulate noise emissions from existing and proposed future noise sources
 - Conduct room acoustic measurements
 - Model and simulate acoustics of indoor spaces
 - Simulate loudspeaker drivers based on electrical and acoustical measurements
 - Design loudspeaker cabinets and cross-over circuits for specialized applications
 - Simulate outdoor public warning systems
 - Develop specialized software implementing acoustic standards
 - Measure noise from railways to monitor the corrugation of tracks
 - Write memorandums and reports

Languages

- English Fluent
- Farsi Fluent

Skills

- Programming Python, C/C++, Matlab, Pure Data, Max/MSP, Concurrent Programming
- Tools PyTorch, TensorFlow, JUCE
- Acoustics EASE, CadnaA, ARTA, winMLS
- LEAP EnclosureShop and CrossoverShop

Non-Academic Publications

Haki, Behzad, De Santis, Eric. "Good Communication in Restaurants: Acoustic Capacity". BAP Acoustics Online Blog. May, 2015. <http://bapacoustics.com/general/good-communication-in-restaurantsacoustic-capacity/>

Haki, Behzad. "How Good is Bluetooth at its best?". Serene Audio Online Blog. November, 2015. <http://www.sereneaudio.com/blog/how-good-is-bluetooth-audio-at-its-best>