

Symposium on Attention and Perception in XR
King's College London
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Might the Study of Music Inform the Study of XR?

Lois Svard

Articles

F. Hutmacher, "Why Is There So Much More Research on Vision Than on Any Other Sensory Modality?" *Frontiers in Psychology* 10:2246 (2019), <https://doi.org/10.3389/fpsyg.2019.02246>

A. Majid, et al., "Differential coding of perception in the world's languages.," *Proceedings of the National Academy of Sciences* 115, no. 45 (2018), <https://doi.org/10.1073/pnas.1720419115>

Books

Nina Kraus. (2021) *Of Sound Mind: How Our Brain Constructs a Meaningful Sonic World*. MIT Press. A "must-read" book about the place of sound in the world. Kraus is *the* expert on sound and sound processing.

Lawrence D. Rosenblum. (2010) *See What I'm Saying: the Extraordinary Powers of our Five Senses*. W. W. Norton. An exploration of the astonishing abilities of our five senses as seen through real individuals, such as a blind detective or a blind biker who "sees" through echolocation.

Lois Svard (2023). *The Musical Brain: What Students, Teachers, and Performers Need to Know*. Oxford University Press. This book looks at what we need to know about the brain to make our practicing more efficient and our performance more secure. It also explores the biological foundations of music by looking at the history of music-making going back tens of thousands of years and looks at the innate musical abilities with which babies are born.

Websites

[Brainvolts](#), the Auditory Neuroscience Lab at Northwestern University, Evanston, Illinois. Investigates sound processing in the brain. The best lab website I have come across – has lots of explanations of their work in "easy to understand" language.

[Evelyn Glennie](#). On Glennie's website, Go to "About," and then look at Blog, Essays, and Student Section under "Evelyn's Thoughts." There are a number of blog posts, essays and articles that speak to her experiences as a deaf musician.

Brian Baumbusch, composer of [Polytempo Music](#), perhaps the first virtual reality music album.

Videos

Evelyn Glennie: [How to Truly Listen](#), TED 2003. Deaf percussionist talks about using one's entire body to "listen."

[Nobuyuki Tsujii](#) at the Van Cliburn Competition, 2009. Blind pianist in his prize-winning performance at the competition.

[Touch the Sound: a sound journey with Evelyn Glennie](#). Documentary, 2006. Director Thomas Riedelsheimer.

[Touching the Sound: the improbable journey of Nobuyuki Tsujii](#). Documentary, 2014. Director Peter Rosen.