

Nicolas Bouillot, Ph.D.

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BIO

Nicolas Bouillot is a coder, artist, and co-op entrepreneur. He specializes in media installations, live media, telepresence, spatial sound and artificial intelligence-assisted creation. Now co-founder of the [Lab148 cooperative](#), he provides technological support for digital creativity: design, coordination, prototyping, writing and code. He is the main designer and developer of the [Sh4t](#) tool, which facilitates real-time assemblies of creative and diffusion tools. His work has led to the presentation of several dozen productions of collective digital experiences, while being an experience designer, coder, technological architect, manager and artist. His time at the [Société des arts technologiques](#) made him develop multiple notable collaborations. He has more than 30 [scientific publications](#) to his credit.

His work have led to the development of open-source software and notable innovations such as the network of 20+ Quebec telepresence halls ([Scènes ouvertes](#)) and the prototype of immersive spherical loudspeakers ([Audiodice](#)). He was the initiator and main developer of [Switcher](#) (a modular low-latency multichannel streaming engine) and [Shmdata](#) (a library for sharing data streams between applications). Finally, he is behind [SATIE](#), a 3D audio rendering engine for heterogeneous speaker configurations.

He obtained a PhD from the Conservatoire National des Arts et Métiers de Paris ([CNAM](#)) in 2006. He became a postdoctoral researcher at [McGill University](#) (2007-2011). Finally, he joined the [Société des arts technologiques](#) as a researcher/developer in 2012, where he was co-director of research from 2017 to 2023.

EMPLOYMENT

<i>CURRENT</i> JAN 2023	Cofounder COOPERATIVE LAB148, Montreal
MAR 2023 FEB 2017	Research codirector SOCIETY FOR ARTS AND TECHNOLOGY [SAT], Montreal
MAR 2023 JAN 2012	Researcher/developer SOCIETY FOR ARTS AND TECHNOLOGY [SAT], Montreal
FEB 2012 SEPT 2007	Research associate & post-doctoral researcher MCGILL UNIVERSITY, Montreal

EDUCATION

NOV 2006	Ph.D. in COMPUTER SCIENCE, obtained with distinction CONSERVATOIRE NATIONAL DES ARTS ET MÉTIERS, Paris
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Selected Collective Digital Experiences

- [1] Zack Settel, **Nicolas Bouillot**, Jean-Yves Munch, Carl Talbot, and Mélanie Léonard. Navigation in the montreal symphony orchestra. mmersive 3D and dome experience of live navigation in the Montreal Symphony Orchestra, 2021. <https://nicolasbouillot.net/audio/6dof-symphony/>.
- [2] Luc Courchesne, Emmanuel Durand, **Nicolas Bouillot**, and Michal Seta. Drawing space. Telepresence drawing experience with volumetric capture of participants' bodies, 2013. <https://nicolasbouillot.net/telepresence/drawing-space/>.
- [3] Romain Pellerin, **Nicolas Bouillot**, Tatiana Pietkiewicz, Mike Wozniowski, Zack Settel, Eric Gressier-Soudan, and Jeremy R. Cooperstock. Soundpark. Multiplayer augmented reality games, geolocalized and playable in a park., 2009. <https://nicolasbouillot.net/telepresence/sound-park/>.

Telematic Art

- [1] Michal Seta, **Nicolas Bouillot**, Emmanuel Durand, Nina Ripoll, Bennett Smith, Andrew Stewart, Dirk Stromberg, and Zack Settel. Kaon'cpt: Perripplayear & as of so little space. Guided musical improvisations (comprovisations) involving a dozen musicians playing simultaneously at a distance and spread across 14 time zones. The pieces were presented during several online festivals in the USA, Canada, England, and Poland, November 2021. (60 minutes), <https://nicolasbouillot.net/telepresence/kaon/>.
- [2] **Nicolas Bouillot**, Emmanuel Durand, Michal Seta, Alexandre Quessy, and Zack Settel. Waterfall music. Guided musical improvisations (comprovisations) involving three musicians and a dancer spread across two distant stages and a virtual environment that brings them together simultaneously. The piece was presented during several festivals in Austria, Canada, and England, May 2013. (17 minutes), <https://nicolasbouillot.net/telepresence/waterfall/>.

Movie

- [1] **Nicolas Bouillot**. Sèmes. Fulldome film screened in the United States, Canada, and England, 2022. (5 minutes), <https://nicolasbouillot.net/audio/semes/>.

Fiction

- [1] **Nicolas Bouillot**. En dronaile. Short utopian story, winner of the contest *Imagine Montreal in the Year 2140*, organized by the Bieler School of Environment, McGill university, November 2023. <https://nicolasbouillot.net/trucs/2023-mtl-2140.pdf>.