

Nicolas Bouillot, Ph.D.

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BIO

Nicolas Bouillot is a coder, artist, author and producer/director of digital experiences. He specializes in telepresence, spatial sound, artificial intelligence-assisted creation and, more generally, media installations. 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 [Sh4lt](#) 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, notably during his time at the [Société des arts technologiques](#). He has more than 30 [scientific publications](#) to his credit.

Rooted in applied research, his prototypes have led to the development of open-source software and notable innovations such as the network of 20+ Quebec telepresence halls ([Open Scenes](#)) and the prototype of immersive spherical loudspeakers ([Audiodyce](#)). 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>.