

NICOLAS BROCHEC

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RESEARCH INTERESTS

Computer Audition / Machine Listening
AI Music
New Instruments for Musical Expression

EDUCATION

Ph.D.: Music Creativity and the Environment	2023-2026
Tokyo University of the Arts	
Master of Arts: Music Composition	2019-2021
Université de Strasbourg	
Machine Learning for Musicians and Artists	2021
Goldsmith University	
Master of Arts: Computational Musicology	2017-2019
Université Paris 8	
Bachelor of Arts: Musicology	2016-2017
Université Paris 8	
BTEC Higher National Diploma: Sound Engineering	2012-2014
Pôle Image & Son Biarritz	

GRANTS & SCHOLARSHIPS

Japanese Government MEXT Scholarship	2023-2026
The Telecommunications Advancement Foundation Research Grant	2023
Mutōmai's Research Grant	2023

TECHNICAL SKILLS

Programming Languages	Python, C++, Octave
Softwares & Tools	Max/MSP, IRCAM Tools, Reaper, Sibelius

LANGUAGES

English	TOEFL > 90
Japanese	Advanced > N2
French	Mother tongue

POSITIONS OF RESPONSIBILITY

ERC Reach Project (GA #883313)	2023
<i>Member</i>	
Max Summer School	2023
<i>Speaker</i>	
Studio Frédéric Sanchez	2017-2022
<i>Sound Engineer</i>	

PUBLICATIONS

Nicolas Brochec, Tsubasa Tanaka. *Toward Real-Time Recognition of Instrumental Playing Techniques for Mixed Music: A Preliminary Analysis.* International Computer Music Conference, Oct 2023, Shenzhen, China.

Nicolas Brochec, Tsubasa Tanaka. *Machine Learning based Classification of Flute Playing Techniques for Mixed Music.* Japanese Society of Sonic Arts Journal, Dec 2022, Tokyo, Japan.

COMPOSITION COMMISSIONS & AWARDS

Hammer Jack Yokohama	Commission	2023
Philharmonie de Paris	Commission	2022
Ise-Shima	Special Prize	2021
New Music Generation	First Prize	2020
Electric Sound'Ar-te	First Prize	2020

ADDITIONAL INTERESTS

Applied Mathematics
Visual Arts