Tiago Brizolara da Rosa - Curriculum Vitae

15 Route des Quatre Vents. Séné, 56860, France

Rua Salvatina Feliciana dos Santos, 391. Ap. 904 A. Florianópolis, 88034600, Brasil +33 07 55 95 52 93 - <u>tiago.brizolara@gmail.com</u>

Languages

Portuguese	Native - Brazil
English	Fluent
Spanish	Native - Latin America (Uruguay)
French	Intermediate - 2 years living in France

Education

2018	Started PhD in Informatics, Université Bretagne Sud (UBS), France
2006	Master in Physics, Federal University of Santa Catarina (UFSC-SC), Brazil
2011-interrupted (5 semesters)	Bachelor in Music Composition, State University of Maringá (UEM-PR), Brazil
2012	2-year Specialization in Digital Games Development, Pontifical Catholic University of Paraná (PUC-PR), Brazil
2004	Bachelor in Physics, Federal University of Santa Catarina (UFSC-SC), Brazil

JOB POSITIONS

2017-2018	Teacher in technological graduation in Digital Games at Faculdade de Tecnologia Nova Palhoça (FATENP-SC), Brazil.
	Disciplines of Artificial Intelligence for Games, Audiovisual Production, and Innovative Topics.
2017-2018	Consultant in Research & Development in medical software for PurView Co., LLC, USA. 24 hours/week. Working with C/C++ and Obj-C in the Horos (<u>www.horosproject.org</u>) medical image viewer.
2010-2017	Consultant in Research & Development in medical software for <u>Micromar</u> Ltda, Brazil. 40 hours/week.
	Worked with C/C++ in stereotactic and neuronavigation systems.
2009-2010	C/C++ Programmer. Step Software Tecnologia e Projetos Ltda, Brazil. 44 hours/week
2007-2008	Consultant in Research & Development in medical physics for Micromar Ltda, Brazil. 40 hours/week
2003-2004	FAPEU scholarship at Federal University of Santa Catarina (UFSC-SC), Brazil. Modalidade: bolsa de ensino. 20 hours/week

Courses and Workshops

ongoing	Real-Time Audio Signal Processing in Faust, Kadenze Inc.
ongoing	Physics-Based Sound Synthesis for Games and Interactive Systems, Stanford University on Kadenze Inc.
2018	Orchestration I, Berklee College of Music
	Berklee Online. Valid as college credit. 12 weeks.
2017	Music Composition for Film and TV, Berklee College of Music
	Berklee Online. Valid as college credit. 12 weeks.
2017	Introduction to Music Production, Berklee College of Music on Coursera. Verified certificate: https://www.coursera.org/verify/GHM8JJGBA72Y
	7 weeks, ~35 hrs.
2016	Machine Learning for Musicians and Artists, Goldsmiths University of London on Kadenze Inc. Verified certificate: https://www.kadenze.com/certificates/verified/3I26F592
	7 weeks, ~35 hrs.
2014	Creative, Serious and Playful Science of Android Apps, University of Illinois - Urbana-Champaign at Coursera. Verified certificate: https://www.coursera.org/account/accomplishments/certificate/DYZ8EJCZRQ 11 weeks.
2013	Creative Programming for Digital Media & Mobile Apps, University of London on Coursera. Verified certificate: https://www.coursera.org/account/accomplishments/certificate/33HHLCNTXY. 6
	weeks.
2013	LAPPSO-UEM Colloquium. Maringá State University (UEM-PR), Brazil.
	• Workshop of Pure Data. 6 hrs.
	Workshop of Super Collider. 6 hrs.
	Workshop on audio spatialization. 3 hrs.
2013	Mini-course on wind instruments from everyday materials (Mini-curso sobre construção de instrumentos de sopro a partir de materiais comuns). <i>Maringá State University (UEM-PR), Brazil.</i> 5 hrs.

Lecturer in courses/workshops

2017	15 hrs course on creative computing with Processing (<i>Computação Criativa com Processing</i>). O Sítio Arte, Educação, Coworking, Florianópolis-SC.
2017	Workshop on Pure Data, Noite de Música Nova. Armazém Cultural, Florianópolis-SC.
2017	3 hrs Workshop on Pure Data, Experimenta UFSC
	Tarrafa Hacker Clube, UFSC-SC, Florianópolis-SC.
2016	2 hrs Workshop on Pure Data at 1st R.I.S.C.O Reunião Inusitada de Som, Computadores e Outros. <i>MIS-SC (Museum of Image and Sound), Florianópolis,</i> <i>Brazil.</i>

Some academic activity

2020	Tiago Brizolara, Sylvie Gibet, and Caroline Larboulette. 2020. Elemental: a Gesturally Controlled System to Perform Meteorological Sounds. <i>Proceedings of the International</i> <i>Conference on New Interfaces for Musical Expression (NIME)</i> , Birmingham City University, pp. 470–476. https://www.pime.org/proceedings/2020/pime2020.paper90.pdf
2020	2,5 hrs workshop Introduction to Sound Computing with Pure Data, <i>inside</i> Introduction to Recording discipline teached by Dr. Flora Holderbaum, University of Santa Catarina State (UDESC), Brazil.
2019	Tiago Brizolara daRosa, Sylvie Gibet, Caroline Larboulette. Elemental: Contrôle des Sons Naturels par le Mouvement. Public demonstration at <i>Journée Science et</i> <i>Musique. IRISA & Inria in collaboration with Université Rennes 1, CNRS and</i> <i>Nicomaque. Université Rennes 1.</i>
2019	Tiago Brizolara da Rosa, Sylvie Gibet, Caroline Larboulette. Quand Le Geste Contrôle le Vent, la Pluie et la Tonnerre. Public demonstration at <i>Fête de la</i> Science, Université Bretagne Sud.
2019	International mobility grant from Université Bretagne Sud (France) to the city of Recife, Brazil, for collaboration with researchers João Tragtenberg, Giordando Cabral (Federal University of Pernambuco - UFPE), and the MusTIC research team. Funded by Région Bretagne and Departement du Morbihan.
	Other than research and meetings, attended:
	 Event "Workshop MusTIC: Tecnologias Criativas" at UFPE: Seminar "Progress and Challenges for Music Generation by Deep Neural Networks", by Jean-Pierre Briot (CNRS, LIP6) Work group with MusTIC members and other developers of creative technologies Event "V Cln Innovation Expo" at UFPE: introductory workshop "Criando interfaces musicais com Arduino" jam session with new interfaces for music expression
	And teached workshops:
	 Introduction to Musical Computing with Pure Data (Introdução à Computação Musical com Pure Data). Center of Informatics (UFPE). Machine Learning in Interactivity - Introduction to Wekinator (Aprendizado de Máquina na Interatividade - Introdução ao Wekinator). Center of Informatics (UFPE).
2019	Assistant in project of 1st year Masters students in Informatics: "SONIC 2". Université Bretagne Sud, France.
2019	Assistant in project of 1st year Masters students in Informatics: "SMOKE 2". Université Bretagne Sud, France.
2018	2 hrs seminar/workshop Introduction to Sound Computing with Pure Data, Master's Conference teaching unit (lectures supervised by prof. Nicolas Courty), Université Bretagne Sud
2018	3 hrs workshop on creative computing with Processing (Computação Criativa com Processing). Fatenp-SC, Palhoça, SC, Brazil.
2015	ROSA, Tiago; MORITZ, Marcos. SoMo: Um Instrumento Musical baseado em Movimento - Características Estéticas e Técnicas e potenciais Usos [Full paper], 15th Brazilian Symposium on Computer Music – SBCM, Campinas-SP, Brazil. http://compmus.ime.usp.br/sbcm2015/files/proceedings-print.pdf
2013	Workshop on games in music education, II Encontro com Educadores Musicais - State University of Santa Catarina (UDESC), Florianópolis, Brazil.

2013	10 hrs extension course on digital games in music education, alongside with Dr. Andréia Veber. Maringá State University (UEM-PR), Brazil.
	Technologies involved in online music games; availability in classroom; cataloguing material; developing proposals for didactic material.
2013	6hrs Workshop of Processing, III Colloquium of LAPPSO-UEM. Maringá State University, Brazil).
2013	Second reader of undergraduate thesis.
	Ensino de Música na Era Digital: O Jogo Eletrônico como Ponto de Partida. Student: Willy Silva; Advisor: Andréia Veber, Course: Music Education. Music Department, Maringá State University (UEM-PR), Brazil.
2013	1st prize in undergraduate texts contest, 11º Fórum de Extensão E Cultura da UEM. State University of Maringá, Brazil.
	Roda de Choro: Música Brasileira Informal e Refinada. Event promoted by Diretoria de Extensão of UEM (<i>State University of Maringá, Brazil</i>).
2012	VEBER, Andréia; ROSA, Tiago Brizolara da. Jogos digitais online e ensino de música: propostas para a prática musical em grupo. Música na Educação Básica . Londrina, v. 4, n. 4, novembro de 2012.
2011	Participant, X Brazilian Symposium on Computer Games - SBGames. Salvador-BA, Brazil.
2011	2nd place in independent games contest. Game: Silent Joe. Category: web games.
2010 2009	 Participant, IX Brazilian Symposium on Computer Games - SBGames. Florianópolis – SC. Oral Presentation, XI Congresso Brasileiro de Radioterapia / XI Jornada Brasileira de Física Médica (XI Brazilian Colloquium in Medical Physics) Resultados de um Sistema de Planejamento de Radiocirurgias Estereotáxicas com Aceleradores Lineares e Feixes Cônicos (Results from a Planning System of Stereotactic Radiosurgery with Linear Accelerators and Conic Beams).

PORTFOLIO / ONGOING PROJECTS

R&D in the health industry:

- Developed a radiosurgery planning system during the end of my graduation (involving physicist Patrícia Morales and with a FAPEU scholarship supervised by Dr. Nelson Canzian, in partnership with brazilian company TechLab nowadays Pixeon) and finished and evaluated during my Masters (dissertation at
 - https://repositorio.ufsc.br/xmlui/handle/123456789/89402)
- Worked on the development of the commercial softwares MSA, AimPlan (both for stereotactic neurosurgery) and AimNav (neuronavigation, brain atlas), with Micromar Ltda (Brasil)
 Gave support on the DICOM imaging software Horos, with PurView LLC (USA)

Interactivity, Creative Computing, Arts, Music Composition, Audio Design

- Elemental: new interface for music expression controlled via inertial + electromyographic sensors weared on the performers' arms. Conceived by me, programmed in C++ and Pure Data. Part of my PhD at UBS. <u>https://brizolara.github.io/elemental/</u>
- SoMo: digital musical instrument with high responsiveness and visual feedback, based on movement in front of a fast câmera. Full source code (Processing and Pure Data), paper and tutorial at <u>https://bitbucket.org/mmoritz/somo</u>. Partnership with Marcos Moritz.
- Compositions in streaming: <u>https://open.spotify.com/artist/7jX4pMvEFiYhxrCWVi8wKT</u>
- Full portfolio and landing page at <u>http://tiagobrizolara.com</u>