



St. Pölten University of Applied Sciences  
Matthias Corvinus-Straße 15, A-3100 St. Pölten, Austria  
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## B.Sc. M.Sc. Dr. Victor Adriel de Jesus Oliveira

Researcher at the Institute for Creative\Media\Technologies at St. Pölten University of Applied Sciences (FHSTP). Degree in Computer Science from the Universidade Estadual de Santa Cruz (2012). Masters in Computer Science from the Universidade Federal do Rio Grande do Sul (2014). Ph.D. in Computer Science at the Universidade Federal do Rio Grande do Sul (2018). Interested in the field of Human-Computer Interaction, with work done on UX Design, Haptic Communication, and Accessibility for Web interfaces. Has experience developing Web systems, and performed several user studies to investigate the use of vibrotactile stimuli as a channel for communication in physical and virtual/augmented environments. Member of the EuroHaptics Society (EHS), Technical Committee on Haptics (TCH), Brazilian Computer Society (SBC), XR Access Initiative (Application Accessibility Work Group).

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### EDUCATION

#### PH.D. IN COMPUTER SCIENCE

2014 – 2018

Universidade Federal do Rio Grande do Sul, UFRGS, Porto Alegre, Brazil

Thesis: *Haptic Interfaces and Their Application on Computer-Mediated Tactile Communication*

Adviser: Anderson Maciel / Co-adviser: Luciana Nedel

#### MASTER'S IN COMPUTER SCIENCE

2012 – 2014

Universidade Federal do Rio Grande do Sul, UFRGS, Porto Alegre, Brazil

Dissertation: *Designing Tactile Vocabularies for Human-Computer Interaction*

Adviser: Anderson Maciel

#### BACHELOR'S IN COMPUTER SCIENCE

2008 – 2012

Universidade Estadual de Santa Cruz, UESC, Ilhéus, Brazil

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### AREAS OF EXPERTISE

#### HUMAN-COMPUTER INTERACTION

User Interface Design, User Studies, Experimental Design

#### HAPTICS

Tactile Perception, Perceptual Assessment, Vibrotactile Feedback

#### AUGMENTED AND VIRTUAL REALITY

Multisensory Interaction, Navigation, Object Manipulation

#### WEB DEVELOPMENT AND MOBILE

Accessibility, Usability, Programming

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**PROFESSIONAL  
EXPERIENCE**

ST. PÖLTEN UNIVERSITY OF APPLIED SCIENCES

2018 – now

Position: Researcher (Full-time)

ISTITUTO ITALIANO DI TECNOLOGIA – IIT GENOVA

2015 – 2016

Position: Fellow Ph.D. (Full-time)

UNIVERSIDADE ESTADUAL DE SANTA CRUZ – UESC

2011 – 2012

Position: LIBRAS Interpreter at the CS Graduate Program (Full-time)

JUNIOR ENTERPRISE OF COMPUTER SCIENCE - TECNOJR

2009 – 2010

Position: Manager (Administrative and Financial) (Part-time)

2008 – 2012

Position: Member (Part-time)

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**LANGUAGES**

PORTUGUESE (Native); ENGLISH (C1); ITALIAN (B1); GERMAN (A1)

\*Level: A1/2 Basic Level - B1/2 Intermediate Level - C1/2 Advanced Level

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**SELECTED  
PUBLICATIONS**

OLIVEIRA, V. A. J., NEDEL, L., MACIEL, A., [ASSESSMENT OF AN ARTICULATORY INTERFACE FOR TACTILE INTERCOMMUNICATION IN IMMERSIVE VIRTUAL ENVIRONMENTS](#), Computer & Graphics (Vol 76), 2018

OLIVEIRA, V. A. J., NEDEL, L., MACIEL, A., [ASSESSING ARTICULATORY MODALITIES FOR INTERCOMMUNICATION USING VIBROTACTILE HMDS](#), EUROHAPTICS Conference, 2018

OLIVEIRA, V. A. J., NEDEL, L., MACIEL, A., BRAYDA, L., [ANTI-VEERING VIBROTACTILE HMD FOR ASSISTANCE OF BLIND PEDESTRIANS](#), EUROHAPTICS Conference, 2018

OLIVEIRA, V. A. J., BRAYDA, L., NEDEL, L., MACIEL, A., [DESIGNING A VIBROTACTILE HEAD-MOUNTED DISPLAY FOR SPATIAL AWARENESS IN 3D SPACES](#), IEEE Transactions on Visualization and Computer Graphics, 2017.

OLIVEIRA, V. A. J., NEDEL, L., MACIEL, A., BRAYDA, L., [LOCALIZED MAGNIFICATION IN VIBROTACTILE HMDS FOR ACCURATE SPATIAL AWARENESS](#), EUROHAPTICS Conference, 2016.

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**AWARDS**

Winner of 3DUI Contest for *3DUI and the Phantom Limb: multisensory experience for embodiment of amputation*, at IEEE VR 2020.

Best Paper award for *Assessment of an Articulatory Interface for Tactile Intercommunication in Immersive Virtual Environments*, at SVR 2018.

Best Application Paper for *Tactile Interface for Navigation in Underground Mines*, at SVR, 2014.

Finalist on the *XXVIII Concurso de Teses e Dissertações (CTD)*, at CSBC, 2015.

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