Jerônimo Gustavo **Grandi**

Ph.D candidate at Federal University of Rio Grande do Sul, Brazil

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Education

PhD. in Computer Science   *Porto Alegre, RS, Brazil*

Federal University of Rio Grande do Sul - UFRGS   *2014 - Current*

- Thesis (Provisory title): Design of Collaborative 3D User Interfaces for Virtual and Augmented Reality
- Adviser: Anderson Maciel

MSc. in Computer Science   *Porto Alegre, RS, Brazil*

Federal University of Rio Grande do Sul - UFRGS   *2012 - 2014*

- Thesis: Multidimensional Similarity Search for 2D-3D Medical Data Correlation and Fusion
- Adviser: Anderson Maciel

BSc. in Digital Technologies   *Caxias do Sul, RS, Brazil*

University of Caxias do Sul - UCS   *2005 - 2011*

- Thesis: Collaborative spatially aware visualization of medical images
- Adviser: Anderson Maciel

Research Interests

Human-Computer Interaction

Non-conventional interfaces, Multimodal interaction, Collaborative manipulations

Virtual, Augmented and Mixed Reality

Interaction in virtual environments, Perceptual studies, HDMS, CAVEs

Medical Applications

Surgery planning, Visualization of internal structures, Volumetric rendering

Experience

Research Assistant Intern   *Porto Alegre, RS, Brazil*

Computer Graphics Group - UFRGS   *2012 - Current*

- Supported by CAPES (2012-2016) and by the National Council for Scientific and Technological Development (CNPq) (2017)

Graphics and Interaction Developer   *Caxias do Sul, RS, Brazil*

Urizen Technologies   *2010 - 2011*

Research Assistant Intern   *Caxias do Sul, RS, Brazil*

NTAV Artecno Group   *2005 - 2011*

- Supported by National Council for Scientific and Technological Development (CNPq)

Publications

Collaborative Manipulation of 3D Virtual Objects in Augmented Reality Scenarios using Mobile Devices (Short paper)   *Los Angeles, U.S.A*

IEEE Symposium on 3D User Interfaces (3DUI)   *2017*

GRANDI, Jerônimo G.; BERNDT,Iago; DEBARBA, Henrique; NEDEL, Luciana and MACIEL, Anderson.

Design and Evaluation of a Handheld-based 3D User Interface for Collaborative Object Manipulation   *Denver, U.S.A*

ACM Conference on Human Factors in Computing Systems (CHI)   *2017*

GRANDI, Jerônimo G.; DEBARBA, Henrique; NEDEL, Luciana and MACIEL, Anderson.

Collaborative 3D manipulation using mobile phones (Short paper)   *Greenville, U.S.A*

IEEE Symposium on 3D User Interfaces (3DUI)   *2016*

GRANDI, Jerônimo G.; BERNDT,Iago; DEBARBA, Henrique; NEDEL, Luciana and MACIEL, Anderson.

Multidimensional Similarity Search for 2D-3D Medical Data Correlation and Fusion

CONFERENCE ON GRAPHICS, PATTERNS AND IMAGES. WORKSHOP OF THESES AND DISSERTATIONS (SIBGRAPI)

Rio de Janeiro, Brazil

2014

GRANDI, JERÔNIMO G.; MACIEL, A

Spatially aware mobile interface for 3D visualization and interactive surgery planning

IEEE 3RD INTERNATIONAL CONFERENCE ON SERIOUS GAMES AND APPLICATIONS FOR HEALTH (SeGAH)

Rio de Janeiro, Brazil

2014

GRANDI, JERÔNIMO G.; DEBARBA, HENRIQUE; ZANCHET, DINAMAR; Maciel, Anderson;

Disambiguation Canvas: a precise selection technique for virtual environments

INTERNATIONAL CONFERENCE ON HUMAN-COMPUTER INTERACTION (INTERACT)

Cape Town, South Africa

2013

DEBARBA, HENRIQUE; GRANDI, JERÔNIMO G.; MACIEL, A; NEDEL, LUCIANA P.; BOULIC, RONAN

Anatomic Hepatectomy Planning through Mobile Display Visualization and Interaction

STUDIES IN HEALTH TECHNOLOGY AND INFORMATICS

v.173, p.111 - 115

2012

DEBARBA, HENRIQUE; GRANDI, JERÔNIMO G.; MACIEL, ANDERSON; ZANCHET, DINAMAR J.

Video Stitching based on Optical Tracking

CONFERENCE ON GRAPHICS, PATTERNS AND IMAGES. WORKSHOP OF WORKS IN PROGRESS (SIBGRAPI)

Ouro Preto, Brazil

2012

GRANDI, JERÔNIMO G.; MACIEL, ANDERSON

Bratrack 2: Evolução do sistema de rastreamento óptico de alta precisão para integração no projeto SIMTRACK

WORKSHOP EM SISTEMAS EMBARCADOS PARA A INDÚSTRIA DE ÓLEO, GÁS E ENERGIA

Rio Grande, Brazil

2012

GRANDI, JERÔNIMO G.; KUNZEL, GUSTAVO; GREFF, ALEXANDRE; NEDEL, LUCIANA P.

Interactive spatially aware visualization of medical images - Poster

24TH COMPUTER ASSISTED RADIOLOGY AND SURGERY (CARS)

Geneva, Switzerland

2010

GRANDI, JERÔNIMO G.; MACIEL, ANDERSON

WindWalker: Using Wind as an Orientation Tool in Virtual Environments

SYMPOSIUM ON VIRTUAL AND AUGMENTED REALITY (SVR)

Porto Alegre, Brazil

2009

GRANDI, JERÔNIMO G.; DEBARBA, HENRIQUE; OLIVESKI, ADRIANO; DOMINGUES, DIANA MARIA GALLICCHIO; MACIEL, ANDERSON.; NEDEL, L. P.

Artistic and Cultural Production ⸻

Tagued Idols

PRESENTED AT: **8° INTERNATIONAL IMAGE FESTIVAL** (8° FESTIVAL INTERNACIONAL DE LA IMAGEN), MANIZALES, COLOMBIA / **13° NATIONAL LITERARY JOURNEY** (13° JORNADA NACIONAL DE LITERATURA), PASSO FUNDO, BRAZIL / **7° INTERNATIONAL MEETING OF ART AND TECHNOLOGY** (7° ENCONTRO INTERNACIONAL DE ARTE E TECNOLOGIA), BRASÍLIA, BRAZIL.

2008

DOMINGUES, DIANA G.; GRANDI, JERÔNIMO G.; ARTECNO GROUP;

The Cavern of Trance - Series TRANS-E: my body my blood 1997/2007

PRESENTED AT: **MEMORIES OF THE FUTURE: TEN YEARS OF ART AND TECHNOLOGY IN ITAÚ CULTURAL** (MEMÓRIAS DO FUTURO: DEZ ANOS DE ARTE E TECNOLOGIA NO ITAÚ CULTURAL), SÃO PAULO, BRAZIL / **A PRESENÇA DO CURSO DE ARTES NOS 40 ANOS DA UCS**. UCS CAVE. CAXIAS DO SUL, BRAZIL.

2007

DOMINGUES, DIANA G.; GRANDI, JERÔNIMO G.; ARTECNO GROUP;

Awards ⸻

2017	**Best 3DUI Contest Award**, IEEE 3D User Interfaces (3DUI)		*Los Angeles, USA*
2016	**Best 3DUI Contest Award**, IEEE 3D User Interfaces (3DUI)		*Greenville, USA*
2012	**Poster Award - MMVR: Medicine Meets Virtual Reality**, Anatomic Hepatectomy Planning through Mobile Display Visualization and Interaction		*Newport Beach, USA*
2010	**1st PRIZE - International Congress and Exhibition of Computer Assisted Radiology and Surgery**, Interactive spatially aware visualization of medical images		*Geneva, Switzerland*

Technical Knowledge

Languages, Portuguese (native), English (proficient), Spanish (basic)

Programming, C++, C#, Java, R, Latex, Phyton

Game/Graphics Engines, Unity 3D, OpenGL

Mobile Devices Development, Android (SDK and NDK), iOS

I/O Devices, Mobile Devices, Wiimote, Kinect, touch screens, inertial sensors, Bratrack (tracking system), tiled displays, HMDs, CAVE

Tools, Vuforia, QtCreator, Visual Studio, XCode, GIT, Linux, Windows, InkScape, Mac OSX, ITK, OpenCV

Other Experiences

Reviewer, Sibgrapi, SVR, SBGames, IHC, CASA, CSBC, WRVA

Undergraduation Co-Advisor, 3D Interface for Ultrasound Simulation (2015), Francis M. Mwanz

Teaching Assistent, Basic Programming C (2015), Human-Computer Interaction (2014), Cyberspace and Creation in Digital Culture I (2007), Games and Multi-user Worlds (2008), Computer Graphics I (2009)

References

Anderson Maciel, Associate Professor at UFRGS, Brazil. Contact: amaciel@inf.ufrgs.br

Luciana Nedel, Associate Professor at UFRGS, Brazil. Contact: nedel@inf.ufrgs.br

Henrique G. Debarba, Senior Researcher at Artanim, Switzerland. Contact: henrique.debarba@artanim.ch

Diana Domingues, Founder and Head of Laboratory of Research in Art and TechnoScience (LART), University of Brasília - UnB, Brazil. Contact: dgdomingues@gmail.com