

Jerônimo Gustavo Grandi

PH.D ASSISTANT AT FEDERAL UNIVERSITY OF RIO GRANDE DO SUL, BRAZIL

□ (+55) 51 981325038 | □ jjgrandi@inf.ufrgs.br | □ www.inf.ufrgs.br/~jjgrandi | □ jjgrandi

Education

PhD. in Computer Science

FEDERAL UNIVERSITY OF RIO GRANDE DO SUL - UFRGS

Porto Alegre, RS, Brazil

2014 - Current

- THESIS (PROVISIONARY TITLE): DESIGN OF COLLABORATIVE 3D USER INTERFACES FOR VIRTUAL AND AUGMENTED REALITY
- ADVISER: PROF. DR. ANDERSON MACIEL

MSc. in Computer Science

FEDERAL UNIVERSITY OF RIO GRANDE DO SUL - UFRGS

Porto Alegre, RS, Brazil

2012 - 2014

- THESIS: MULTIDIMENSIONAL SIMILARITY SEARCH FOR 2D-3D MEDICAL DATA CORRELATION AND FUSION
- ADVISER: PROF. DR. ANDERSON MACIEL

BSc. in Digital Technologies

UNIVERSITY OF CAXIAS DO SUL - UCS

Caxias do Sul, RS, Brazil

2005 - 2011

- THESIS: COLLABORATIVE SPATIALLY AWARE VISUALIZATION OF MEDICAL IMAGES
- ADVISER: PROF. DR. ANDERSON MACIEL

Research Interests

Human-Computer Interaction

NON-CONVENTIONAL INTERFACES, MULTIMODAL INTERACTION, COLLABORATIVE MANIPULATIONS

Virtual, Augmented and Mixed Reality

INTERACTION IN AR AND VR ENVIRONMENTS, PERCEPTUAL STUDIES, HMDs, CAVES

Medical Applications

SURGERY PLANNING, VISUALIZATION OF INTERNAL STRUCTURES, VOLUMETRIC RENDERING

Experience

Research Assistant Intern

GRAPHICS, VISUALIZATION AND INTERACTION LAB - UFRGS

Porto Alegre, RS, Brazil

2012 - Current

- SUPPORTED BY CAPES (2012-2016) AND BY THE NATIONAL COUNCIL FOR SCIENTIFIC AND TECHNOLOGICAL DEVELOPMENT (CNPQ) (2017)

Graphics and Interaction Developer

URIZEN TECHNOLOGIES

Caxias do Sul, RS, Brazil

2010 - 2011

Research Assistant Intern

NTAV ARTECNO GROUP

Caxias do Sul, RS, Brazil

2005 - 2011

- SUPPORTED BY NATIONAL COUNCIL FOR SCIENTIFIC AND TECHNOLOGICAL DEVELOPMENT (CNPQ)

Awards

Honorable Mention for Best Paper - IEEE VR Conference on Virtual Reality and 3D User

2018 **Interfaces**, Design and Assessment of a Collaborative 3D Interaction Technique for Handheld Augmented Reality

Reutlingen,
Germany

2017 **Best 3DUI Contest Award - IEEE 3D User Interfaces (3DUI)**, Collaborative 3D manipulation using mobile phones

Los Angeles, USA

2016 **Best 3DUI Contest Award - IEEE 3D User Interfaces (3DUI)**, Collaborative Manipulation of 3D Virtual Objects in Augmented Reality Scenarios using Mobile Devices

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

Publications

Design and Assessment of a Collaborative 3D Interaction Technique for Handheld Augmented Reality

IEEE CONFERENCE ON VIRTUAL REALITY AND 3D USER INTERFACES

Reutlingen, Germany

2018

GRANDI, JERÔNIMO G.; DEBARBA, HENRIQUE; BERNDT, IAGO; NEDEL, LUCIANA AND MACIEL, ANDERSON.

3DAthlon: 3D Gestural Interfaces to Support a 3-Stage Contest in VR (Short paper)

IEEE CONFERENCE ON VIRTUAL REALITY AND 3D USER INTERFACES

Reutlingen, Germany

2018

GRANDI, JERÔNIMO G.; DEBARBA, HENRIQUE; FRANZ, JULIANO; OLIVEIRA, VICTOR; TICONA, ABEL; SOUZA, GABRIELLE; BERTI, IZADORA; VILLA, STEEVEN; NEDEL, LUCIANA AND MACIEL, ANDERSON.

Collaborative Manipulation of 3D Virtual Objects in Augmented Reality Scenarios using Mobile Devices (Short paper)

IEEE SYMPOSIUM ON 3D USER INTERFACES (3DUI)

Los Angeles, U.S.A

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

ACM CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI)

Denver, U.S.A

2017

GRANDI, JERÔNIMO G.; DEBARBA, HENRIQUE; NEDEL, LUCIANA AND MACIEL, ANDERSON.

Collaborative 3D manipulation using mobile phones (Short paper)

IEEE SYMPOSIUM ON 3D USER INTERFACES (3DUI)

Greenville, U.S.A

2016

GRANDI, JERÔNIMO G.; BERNDT, IAGO; DEBARBA, HENRIQUE; NEDEL, LUCIANA AND MACIEL, ANDERSON.

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

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

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**

Artistic and Cultural Production

Tagued Idols

PRESENTED AT: **8º INTERNATIONAL IMAGE FESTIVAL** (8º FESTIVAL INTERNACIONAL DE LA IMAGEN),

2008

MANIZALES, COLOMBIA / **13º NATIONAL LITERARY JOURNEY** (13º JORNADA NACIONAL DE

LITERATURA), PASSO FUNDO, BRAZIL / **7º INTERNATIONAL MEETING OF ART AND TECHNOLOGY** (7º

ENCONTRO INTERNACIONAL DE ARTE E TECNOLOGIA), BRASÍLIA, BRAZIL.

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**

2007

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.

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

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 Assistant, 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: amaciell@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