



Gonzalo Rojas Costa

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Gonzalo Mauricio Rojas Costa is a Chilean-Italian Computer Engineer (and PhD candidate). He has experience in R&D&i projects in medical image processing at various Chilean Universities and Hospitals (University of Santiago de Chile, Pontificia Universidad Católica de Chile, Institute of Neurosurgery Dr. Asenjo, Clínica Santa María). He currently works as a Researcher and Image Processing Engineer at the Radiology Department, Clínica Las Condes in Santiago de Chile. He works on research projects (and processing of medical image exams) related to functional connectivity, brain volumetry, fetal volumetry, uro MRI and advanced visualization methods for complex neuroimaging (Virtual Reality and Augmented Reality techniques). He has been the author and co-author of three book chapters, more than 15 papers in international scientific journals, 9 papers in national scientific journals, 3 preprints, more than 90 abstracts in Chilean and international conferences and scientific meetings (with researchers from other universities, such as Adolfo Ibañez University). Gonzalo was the Principal Investigator of some neuroimage-related research projects. He participated in the preliminary meetings to organize LABMAN (Latin American OHBM chapter), was its first treasurer, and current Chair. He created the Chilean Association for Pattern Recognition (AChiRP) and is also a member of other national and international academic societies, such as OHBM (Organization for Human Brain Mapping), Neuro-Bureau, and the Chilean Society of Neurology, Psychiatry, and Neurosurgery (SONEPSYN). Also, Gonzalo participated in the “Workshop on Human Brain Projects and Public Health” (World Health Organization Headquarters, Geneva, Switzerland).

twitter: gonzalorojasco

More information:

<https://scholar.google.com/citations?user=LO7LZ3oAAAAJ>

https://www.researchgate.net/profile/Gonzalo_Rojas2

<https://cl.linkedin.com/in/gonzalorojascosta>

B.1. Breve descripción del Trabajo de Fin de Grado (TFG) y puntuación obtenida

B.2. Breve descripción del Trabajo de Fin de Máster (TFM) y puntuación obtenida



Gonzalo Rojas Costa

Surname(s): **Rojas Costa**
Name: **Gonzalo**
ORCID: **0000-0002-6228-2678**
Personal web page: **<https://scholar.google.com/citations?user=LO7LZ3oAAAAJ>**

Current professional situation

- 1** **Employing entity:** Finis Terrae University **Type of entity:** University
Department: School of Medicine
Professional category: Adjunct Assistant Professor
Start date: 01/08/2023
- 2** **Employing entity:** Clínica las Condes **Type of entity:** Healthcare Institutions
Department: Hospital
Professional category: Research and Innovation Projects. Image Processing.
Start date: 24/07/2023
Type of contract: Permanent employment contract **Dedication regime:** Full time
- 3** **Employing entity:** Clínica las Condes **Type of entity:** Healthcare Institutions
Department: Radiology, Hospital
Professional category: Research. Image Processing
City employing entity: Santiago, Chile
Start date: 03/08/2009
Type of contract: Permanent employment contract **Dedication regime:** Full time

Previous positions and activities

	Employing entity	Professional category	Start date
1	Departamento de Física, Universidad de Santiago de Chile	Research Assistant	01/04/2002
2	Clinica Santa Maria	Research. Image Processing	01/09/2008
3	Instituto de Neurocirugía Dr. Asenjo	Research. Image Processing	01/01/2005
4	Facultad de Medicina, Pontificia Universidad Católica de Chile	Researcher	01/09/1999
5	Departamento de Física, Universidad de Santiago de Chile	Research Assistant	01/07/1991
6	SALUMAX S.A.	IT Manager	01/09/1996



- 1** **Employing entity:** Departamento de Física, Universidad de Santiago de Chile
Professional category: Research Assistant
Start-End date: 01/04/2002 - 31/07/2010
Type of entity: University
- 2** **Employing entity:** Clinica Santa Maria
Department: Radiology
City employing entity: Santiago, Chile
Professional category: Research. Image Processing
Start-End date: 01/09/2008 - 31/07/2009
Type of entity: Healthcare Institutions
- 3** **Employing entity:** Instituto de Neurocirugía Dr. Asenjo
Professional category: Research. Image Processing
Start-End date: 01/01/2005 - 30/08/2008
Type of entity: Healthcare Institutions
- 4** **Employing entity:** Facultad de Medicina, Pontificia Universidad Católica de Chile
Professional category: Researcher
Start-End date: 01/09/1999 - 28/02/2003
Type of entity: University
- 5** **Employing entity:** Departamento de Física, Universidad de Santiago de Chile
Professional category: Research Assistant
Start-End date: 01/07/1991 - 30/03/2000
Type of entity: University
- 6** **Employing entity:** SALUMAX S.A.
Professional category: IT Manager
Start-End date: 01/09/1996 - 30/08/1999
Type of entity: Business



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Ingeniero Informático

Degree awarding entity: Universidad Gabriela Mistral

Type of entity: University

Date of qualification: 30/12/2013

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Tecnologías para la Salud y el Bienestar

Degree awarding entity: Universidad Politécnica de Valencia **Type of entity:** University

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Summer School 2022: "The Virtual Brain in Clinical Research"

Awarding entity: Charité - Universitätsmedizin Berlin **Type of entity:** University Centres and Structures and Associated Bodies

End date: 13/09/2022 **Duration in hours:** 60 hours
- 2 Type of training:** Course

Training title: Virtual Course on Artificial Intelligence in Radiology

City awarding entity: Santiago, Chile

Awarding entity: Chilean Society of Radiology **Type of entity:** Associations and Groups

End date: 24/04/2021 **Duration in hours:** 17 hours
- 3 Type of training:** Course

Training title: Hands on course on machine learning applied to neuroimaging

City awarding entity: Buenos Aires, Argentina

Awarding entity: Facultad de Ingeniería, Universidad de Buenos Aires **Type of entity:** University Department

Aims of the entity: Learn Machine Learning software techniques

End date: 25/03/2017 **Duration in hours:** 36 hours
- 4 Training title:** Pre-symposium course on epilepsy. Electroencephalography theoretical and practical workshop. What the medical doctor and EEG technician should know.

City awarding entity: Santiago, Chile

Awarding entity: Clínica las Condes **Type of entity:** Healthcare Institutions

End date: 21/04/2016 **Duration in hours:** 11 hours



- 5** **Type of training:** Course
Training title: The Virtual Brain Workshop
City awarding entity: Hamburg, Germany
Awarding entity: The "Virtual Brain" team
Aims of the entity: Learn "Virtual Brain" software
End date: 07/06/2014 **Duration in hours:** 9 hours
- 6** **Type of training:** Course
Training title: Brainstorm software training workshop
City awarding entity: Seattle, United States of America
Awarding entity: Biomedical Imaging Group, University of Southern California
Aims of the entity: Learn "Brainstorm" EEG software
End date: 21/06/2013 **Type of entity:** University Research Institute
Duration in hours: 8 hours
- 7** **Type of training:** Course
Training title: The Connectome
City awarding entity: Seattle, United States of America
Awarding entity: Organization for Human Brain Mapping
Aims of the entity: Learn human connectome details
End date: 16/06/2013 **Type of entity:** Foundation
Duration in hours: 7 hours
- 8** **Type of training:** Symposium
Training title: Fourth International Symposium of Epilepsy: Frontal Epilepsy
City awarding entity: Santiago, Chile
Awarding entity: Advanced Center for Epilepsy, Clinica las Condes
Aims of the entity: Updates in Epilepsy disease
End date: 25/05/2013 **Type of entity:** Healthcare Institutions
Duration in hours: 21 hours
- 9** **Type of training:** Symposium
Training title: Third International Symposium of Epilepsy: The impact of epilepsy on cognition, mood, and behavior.
City awarding entity: Santiago, Chile
Awarding entity: Advanced Center for Epilepsy, Clinica las Condes
Aims of the entity: Update Epilepsy disease topics
End date: 01/09/2012 **Type of entity:** Healthcare Institutions
Duration in hours: 21 hours
- 10** **Type of training:** Course
Training title: Resting State Brain Networks
City awarding entity: Beijing, China
Awarding entity: Organization for Human Brain Mapping
Aims of the entity: Functional connectivity networks
End date: 10/06/2012 **Type of entity:** Foundation
Duration in hours: 7 hours

- 11** **Type of training:** Practical work
Training title: FreeSurfer Tutorial and Workshop
City awarding entity: Boston, United States of America
Awarding entity: Martinos Center for Biomedical Imaging
Aims of the entity: Freesurfer software
End date: 04/04/2012
Type of entity: University Research Institute
Duration in hours: 21 hours
- 12** **Type of training:** Course
Training title: The Connectome
City awarding entity: Quebec, Canada
Awarding entity: Organization for Human Brain Mapping
Aims of the entity: Functional connectivity networks
End date: 26/06/2011
Duration in hours: 7 hours
- 13** **Type of training:** Symposium
Training title: Second International Symposium of Epilepsy: Advances in the treatment of epilepsy
Awarding entity: Advanced Center for Epilepsy, Clínica las Condes
Aims of the entity: Epilepsy disease updates
End date: 28/05/2011
Type of entity: Healthcare Institutions
Duration in hours: 14 hours
- 14** **Type of training:** Course
Training title: International Congress on Default Mode Network and other intrinsic networks in health and disease
City awarding entity: Barcelona, Spain
Awarding entity: Organization for Human Brain Mapping
End date: 05/06/2010
Type of entity: Foundation
Duration in hours: 14 hours
- 15** **Type of training:** Course
Training title: Advanced Neuroimaging Techniques. Current and Future Applications
City awarding entity: Boston, United States of America
Awarding entity: Massachusetts General Hospital, Department of Radiology. Harvard Medical School
End date: 21/10/2009
Type of entity: University Department
Duration in hours: 21 hours
- 16** **Type of training:** Practical work
Training title: FreeSurfer Tutorial and Workshop
City awarding entity: Sao Paulo, Brazil
Awarding entity: Hospital Das Clínicas, Faculdade de Medicina, University of São Paulo
Aims of the entity: FreeSurfer software course
End date: 12/02/2009
Duration in hours: 14 hours
- 17** **Type of training:** Course
Training title: Advanced Neuroimaging Techniques. Current and Future Applications
City awarding entity: Boston, United States of America
Awarding entity: Massachusetts General Hospital, Department of Radiology. Harvard Medical School
End date: 22/10/2008
Duration in hours: 21 hours



- 18** **Type of training:** Course
Training title: Summer School: Mathematics in Brain Imaging
City awarding entity: Los Angeles, United States of America
Awarding entity: Institute for Pure & Applied Mathematics (IPAM), UCLA
Aims of the entity: Medical neuroimaging techniques course
End date: 25/07/2008 **Duration in hours:** 84 hours
- 19** **Type of training:** Course
Training title: Diffusion by Magnetic Resonance: Technique and Applications
City awarding entity: Santiago, Chile
Awarding entity: Institute of Neurosurgery Dr. Asenjo **Type of entity:** Healthcare Institutions
End date: 07/12/2007 **Duration in hours:** 7 hours
- 20** **Type of training:** Course
Training title: Course of Radiologic Neuroanatomy
City awarding entity: Santiago, Chile
Awarding entity: Institute of Neurosurgery Dr. Asenjo **Type of entity:** Healthcare Institutions
End date: 17/10/2006 **Duration in hours:** 96 hours
- 21** **Training title:** Parkinson's Disease and Movement Disorders
City awarding entity: Santiago, Chile
Awarding entity: CETRAM
End date: 14/10/2006 **Duration in hours:** 14 hours
- 22** **Type of training:** Course
Training title: Actualizations in neurodegenerative diseases, dementia and extrapyramidal diseases
City awarding entity: Santiago, Chile
Awarding entity: Clínica Las Condes **Type of entity:** Healthcare Institutions
End date: 22/04/2005 **Duration in hours:** 12 hours
- 23** **Type of training:** Course
Training title: PET Imaging in the Clinical Environment
City awarding entity: Santiago, Chile
Awarding entity: Military Hospital of Santiago **Type of entity:** Healthcare Institutions
End date: 16/04/2004 **Duration in hours:** 6 hours
- 24** **Type of training:** Course
Training title: Quantification in Nuclear Medicine: Reality and Myth
City awarding entity: Santiago, Chile
Awarding entity: Catholic University Clinical Hospital **Type of entity:** Healthcare Institutions
End date: 29/09/2002 **Duration in hours:** 5 hours
- 25** **Type of training:** Course
Training title: Intensive Course: Diagnosis and Therapy Planning with the help of Images
City awarding entity: Santiago, Chile
Awarding entity: Heidelberg Center for Latin America **Type of entity:** University Centres and Structures and Associated Bodies
Training manager: Hans-Peter Meinzer
End date: 19/03/2002 **Duration in hours:** 24 hours



- 26** **Type of training:** Course
Training title: Bio-Medical Image Analysis: Fundamental Concepts and Techniques
City awarding entity: Barcelona, Spain
Awarding entity: ICPR 2000 **Type of entity:** Associations and Groups
Training manager: Mostafa Analoui
End date: 07/09/2000 **Duration in hours:** 30 hours
- 27** **Type of training:** Course
Training title: Artificial Neural Networks. An Introduction
City awarding entity: Antofagasta, Chile
Awarding entity: Universidad Católica del Norte
End date: 11/11/1998 **Duration in hours:** 12 hours
- 28** **Type of training:** Symposium
Training title: Science and Technology for Development
City awarding entity: Santiago, Chile
Awarding entity: Chilean Scientific Society **Type of entity:** Associations and Groups
End date: 22/08/1996 **Duration in hours:** 6 hours
- 29** **Type of training:** Course
Training title: Medical Physics
City awarding entity: Santiago, Chile
Awarding entity: Catholic University of Chile **Type of entity:** University
End date: 02/12/1994 **Duration in hours:** 90 hours
- 30** **Type of training:** Practical work
Training title: Digital Image Processing
City awarding entity: Santiago, Chile
Awarding entity: University of Santiago de Chile **Type of entity:** University Department
Aims of the entity: Digital Image Processing basics
End date: 31/07/1992 **Duration in hours:** 36 hours
- 31** **Type of training:** Course
Training title: Digital Electronic Basics
City awarding entity: Santiago, Chile
Awarding entity: University of Santiago de Chile **Type of entity:** University
End date: 08/01/1988 **Duration in hours:** 20 hours
- 32** **Type of training:** Course
Training title: "Artificial Intelligence Perspectives", International School of Season 1987. Science and Technology for Development.
City awarding entity: Santiago, Chile
Awarding entity: University of Chile **Type of entity:** University
End date: 23/01/1987 **Duration in hours:** 30 hours



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English					

Teaching experience

Experience supervising doctoral thesis and/or final year projects

Project title: Medical Image Processing. Brain Volumetry Analysis

Type of project: Minor thesis

Entity: Universidad de los Andes

Type of entity: University

City of entity: Santiago, Chile

Student: José Sanchez Scheuch

Date of reading: 01/08/2017

Courses and seminars given

Type of event: Curso

Name of the event: Introduction and Intermediate Programming and Analysis with IDL

City organizing entity: Santiago, Chile

Organising entity: Center for Space Studies, University of Chile **Type of entity:** University of Chile

Hours of teaching: 300

Teaching date: 29/11/2004

Healthcare experience

Healthcare experience in the WHO

Relevant results: Human Brain Projects and Public Health

Department: World Health Organization Headquarters

Entity: World Health Organization Headquarters

Type of entity: Associations and Groups

City of entity: Geneva, Switzerland

Start-End date: 01/07/2016 - 01/07/2016



Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Hyperandrogenism during prenatal and pubertal development alters functional brain networks compromising social cognition in daughters of women with Polycystic Ovary Syndrome: a double hit hypothesis
Type of project: Basic research (including archaeological digs, etc)
Entity where project took place: Universidad de Chile, Clínica las Condes, Universidad de Valparaíso, Universidad Diego Portales
Type of entity: University Department
City of entity: Santiago, Chile
Name principal investigator (PI, Co-PI....): Nicolas Crisosto; Pablo Gaspar; Alejandro Maturana; Gonzalo Rojas; Manuel Maliqueo; Alexies Dagnino; Juan Montiel; Barbara Echiburu
Nº of researchers: 6
Name of the programme: FONDECYT REGULAR
Start-End date: 01/03/2022 - 31/12/2025 **Duration:** 4 years
- 2** **Name of the project:** MULTI-PARTNER CONSORTIUM TO EXPAND DEMENTIA RESEARCH IN LATIN AMERICA-US-South American Initiative for Genetic-Neural-Behavioral Interactions in Human Neurodegenerative Research (R01AG057234-01A1)
Identify key words: Health
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Entity where project took place: Clínica de la Memoria del Hospital del Salvador, Clínica las Condes, ReDLat
City of entity: Santiago, Chile
Name principal investigator (PI, Co-PI....): Andrea Slachevsky; Agustín Ibañez; Gonzalo Rojas
Type of participation: Team member
Start-End date: 01/07/2021 - 01/12/2025
- 3** **Name of the project:** Sensitive neurocognitive and speech markers of neurodegeneration: A Multi-feature framework
Degree of contribution: Researcher
Entity where project took place: Universidad Adolfo Ibañez, Clínica las Condes, Universidad de Santiago de Chile, Hospital del Salvador, ReDLat
City of entity: Santiago, Chile
Name principal investigator (PI, Co-PI....): Agustín Ibañez; Adolfo García; Gonzalo Rojas
Type of participation: Team member
Start-End date: 01/03/2021 - 31/03/2025
- 4** **Name of the project:** Chinchorro: Haciendo Visible lo Invisible
Entity where project took place: Clínica las Condes **Type of entity:** Healthcare Institutions
City of entity: Santiago, Chile
Name principal investigator (PI, Co-PI....): Gonzalo Rojas; Verónica Silva-Pinto; Marcelo Galvez
Nº of researchers: 3



Start-End date: 01/03/2023 - 31/12/2024

- 5** **Name of the project:** Complex Spinal Surgery aided by personalized bio-modeling Project
Entity where project took place: Clinica las Condes **Type of entity:** Healthcare Institutions
City of entity: Santiago, Chile
N° of researchers: 9
Funding entity or bodies:
CORFO **Type of entity:** State agency
City funding entity: Santiago, Chile
Start-End date: 01/01/2015 - 31/10/2020
Total amount: 1.700.000 €
- 6** **Name of the project:** Phobia treatment using Advanced Virtual Reality Techniques.
Entity where project took place: Clinica las Condes
City of entity: Santiago, Chile
Name principal investigator (PI, Co-PI....): Marcelo Galvez; Gonzalo Rojas; Jorge Fuentes; Lina Ortiz; Maria Melis
N° of researchers: 5
Start-End date: 01/03/2016 - 30/10/2018
- 7** **Name of the project:** Visualization of Resting-state functional connectivity complex images using Virtual Reality techniques
Entity where project took place: Clínica las Condes
City of entity: Santiago, Chile
Name principal investigator (PI, Co-PI....): Gonzalo Rojas; Marcelo Galvez; Jorge Fuentes; Carlos Montoya
N° of researchers: 4
Start-End date: 01/03/2016 - 30/10/2018
- 8** **Name of the project:** Pre-frontal activation of a patient with non-psychotic major depression. A study with functional magnetic resonance imaging.
Entity where project took place: Instituto de Neurociencias Clínicas, Unidad de Psiquiatría, Universidad Austral
City of entity: Valdivia, Chile
Name principal investigator (PI, Co-PI....): Tomas Baader; Carmen Rojas; Jaime Silva; Silvia Venezian; Gonzalo Rojas; Fernando Bertrán; Jaqueline Jobet; Ricardo Wiegand; José Luis Molina; Paula Dittus
N° of researchers: 10
Funding entity or bodies:
Universidad Austral **Type of entity:** University
City funding entity: Valdivia, Chile
Start-End date: 01/04/2010 - 30/12/2014
- 9** **Name of the project:** Functional Magnetic Resonance Study (fMRI) in patients with Attention Deficit Hyperactivity Disorder (ADHD). A way to objectify the diagnosis and control its evolution with medical images
Entity where project took place: Clínica las Condes **Type of entity:** Clínica Privada
City of entity: Santiago, Chile
Name principal investigator (PI, Co-PI....): Gonzalo Rojas Costa; Marcelo Gálvez Moya
Funding entity or bodies:
Clínica las Condes **Type of entity:** Clínica Privada
City funding entity: Santiago, Chile



Start-End date: 01/01/2010 - 30/12/2011

10 Name of the project: Magnetic Resonance Diffusion Tensor Imaging for the Diagnosis and Surgical Planning of Patients with Brain Gliomas.

Entity where project took place: Clínica las Condes **Type of entity:** Clínica Privada

City of entity: Santiago, Chile

Name principal investigator (PI, Co-PI....): Marcelo Gálvez Moya; Gonzalo Rojas Costa

Funding entity or bodies:

FONDECYT (CONICYT: Chilean National Science Funding) **Type of entity:** State agency

City funding entity: Santiago, Chile

Start-End date: 01/01/2007 - 30/12/2009

11 Name of the project: Multi-centre Epilepsy Lesion Detection (MELD) Project: Automated detection of focal epilepsies

Type of project: Research and development, including transfer

Geographical area: international collaboration project

Degree of contribution: Researcher

Entity where project took place: The Wellcome Centre for Human Neuroimaging, UCL

City of entity: London, Inner London, United Kingdom

Name principal investigator (PI, Co-PI....): Konrad Wagstyl; Sophie Adler

Start date: 01/03/2021

R&D non-competitive contracts, agreements or projects with public or private entities

1 Name of the project: Chinchorro mummies and three-dimensional replica creation.

Type of project: Research and development, including transfer

Degree of contribution: Researcher

City of entity: Santiago, Chile

Name principal investigator (PI, Co-PI....): Marcelo Galvez; Jorge Fuentes; Gonzalo Rojas; Carlos Montoya; Verónica Silva

N° of researchers: 5

Participating entity/entities: Clínica las Condes; Museo Nacional de Historia Natural de Chile

Type of project: Cooperation

Start date: 01/03/2016

Duration: 2 years

2 Name of the project: NEUROCOM: Research Group in Neuromarketing and Media using Functional Magnetic Resonance.

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Ignacio Gonzalez Alcalde; Fernando Vergara Edwards; María Ignacia Errázuriz Ovalle; María José Labrador; Isabel Santa María; Rosario Rosales Fernandez; Gonzalo Rojas Costa; Karina Besprosvan

N° of researchers: 8

Participating entity/entities: Clinica Santa Maria. Department of Radiology; OMD; Universidad de los Andes. School of Communication; Universidad de los Andes. School of Medicine

Start date: 03/03/2008

Duration: 1 year - 6 months



Scientific and technological activities

Scientific production

H index: 14

Date of application: 06/08/2023

Source of H-Index: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** Mathilde Ripart; Gonzalo M. Rojas Costa; Sophie Adler; Konrad Wagstyl. Automated and Interpretable Detection of Hippocampal Sclerosis in Temporal Lobe Epilepsy: AID-HS. *Annals of Neurology*. 14/11/2024.
DOI: 10.1002/ana.27089
Type of production: Scientific paper **Format:** Journal
Total no. authors: 68
- 2** Felipe Toro Hernandez; Joaquín Migeot; Nicolás Marchant; Daniela Olivares; Franco Ferrante; Raúl González Gómez; Cecilia González Campo; Sol Fittipaldi; Gonzalo Rojas Costa; Sebastián Moguilner; Andrea Slachevsky; Pedro Chaná Cuevas; Agustín Ibañez; Sergio Chaigneau; Adolfo M García. Neurocognitive correlates of semantic memory navigation in Parkinson's disease. *npj parkinson's disease*. 10, Nature, 09/01/2024.
DOI: 10.1038/s41531-024-00630-4
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 3** Magdalena Miranda; Cecilia Gonzalez Campo; Agustina Birba; Alejandra Neely; Felipe Diego Toro Hernandez; Evelyng Faure; Gonzalo M Rojas; Agustin Ibañez; Adolfo Garcia. An action-concept processing advantage in a patient with double motor cortex. *Brain and Cognition*. 156 - 105831, Elsevier, 01/02/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 4** M Magdalena Sepúlveda; Gonzalo M Rojas; Evelyng Faure; Claudio R Pardo; Facundo las Heras; Cecilia Okuma; Jorge Cordovez; María de la Iglesia-Vayá; José Molina-Mateo; Marcelo Galvez. Visual analysis of automated segmentation in the diagnosis of focal cortical dysplasias with magnetic resonance imaging. *Epilepsy & Behavior*. 102, pp. 106684 - 106684. Elsevier, 2020.
Type of production: Scientific paper **Format:** Journal
- 5** Marcelo Galvez; Carlos Montoya; Jorge Fuentes; Gonzalo Rojas; Takeshi Asahi; William Currie; Mario Kuflik; Andrés Chahin. Error Measurement Between Anatomical Porcine Spine, CT Images, and 3D Printing. *Academic Radiology*. 27 - 5, pp. 651 - 660. 07/2019.
Type of production: Scientific paper **Format:** Journal
- 6** Ximena Ortega; Gonzalo Corral; Gonzalo M Rojas; Javier Carrizo; Bernardita Suarez; Claudia Castiglioni. Resonancia magnética de cuerpo completo para estudio muscular y cuantificación de fracción grasa en pacientes pediátricos con miopatías hereditarias. *Revista Médica Clínica Las Condes*. 29 - 6, pp. 654 - 662. Elsevier, 11/2018.
Type of production: Scientific paper **Format:** Journal



- 7** Marcelo Galvez; Takeshi Asahi; Alejandro Baar; Giovanni Carcuro; Natalio Cuchacovich; Jorge Fuentes; Rodrigo Mardones; Carlos E Montoya; Roberto Negrin; Feipe Otayza; Gonzalo M Rojas; Andrés Chahin. Use of Three-dimensional Printing in Orthopaedic Surgical Planning. JAAOS Global Research & Reviews. 2 - 5, Wolters Kluwer Health, Inc., 29/05/2018.
Type of production: Scientific paper **Format:** Journal
- 8** Gonzalo Rojas; Carolina Alvarez; Carlos Montoya; María de la Iglesia-Vayá; Jaime Cisternas; Marcelo Galvez. Study of resting-state functional connectivity networks using EEG electrodes position as seed. Frontiers in neuroscience. 12, pp. 235. Frontiers, 2018.
DOI: 10.3389/fnins.2018.00235
Type of production: Scientific paper **Format:** Journal
- 9** Gonzalo Rojas; Jorge Fuentes; Marcelo Galvez. Mobile Device Applications for the Visualization of Functional Connectivity Networks and EEG Electrodes: iBrain and iBrainEEG. Frontiers in Neuroinformatics. 10, pp. 40. Frontiers, 19/10/2016.
Type of production: Scientific paper **Format:** Journal
- 10** Ximena Ortega; Diego Araneda; Takeshi Asahi; Gonzalo Corral; Gonzalo Rojas; Bernardita Suarez; Claudia Castiglioni. Variability in magnetic resonance quantification of muscle fat fraction using Dixon's technique, Variabilidad en la determinación de fracción grasa muscular en resonancia magnética utilizando la técnica de Dixon. Revista Chilena de Radiología. 22 - 4, pp. 149 - 155. 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 11** Gonzalo Rojas; Marcelo Galvez; Natan Vega Potler; R Cameron Craddock; Daniel S Margulies; F Xavier Castellanos; Michael P Milham. Stereoscopic three-dimensional visualization applied to multimodal brain images: clinical applications and a functional connectivity atlas. Frontiers in neuroscience. 8 - 328, Frontiers, 06/11/2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 12** Jorge Cordovez; Marcelo Galvez; Gonzalo Rojas; Cristobal Bravo; Alejandro Cerda. Using volumetry and lesion load for monitoring patients with multiple sclerosis. Local experience and literature review. Revista Chilena de Radiología. 19 - 4, pp. 156 - 164. 01/01/2014.
Type of production: Scientific paper **Format:** Journal
- 13** Marcelo Galvez; Gonzalo Rojas; Jorge Cordovez; Jaime Cisternas; Takeshi Asahi. Strategies to improve the visualization of lesions in patients with refractory epilepsy. Revista Médica Clínica las Condes. 24 - 6, pp. 958 - 972. 01/01/2013.
Type of production: Scientific paper **Format:** Journal
- 14** Erika Proal; M Álvarez-Segura; María de la Iglesia-Vayá; L Martí-Bonmatí; F Xavier Castellanos; Spanish Resting State Network (SRSN). Functional cerebral activity in a state of rest: connectivity networks. Revista de Neurología. 52 - Suppl 1, pp. S3 - 10. 01/03/2011.
Type of production: Scientific paper **Format:** Journal
- 15** Gonzalo Rojas; Ulrich Raff; Patricio Gonzalez; Rodrigo Jaimovich; Juan Carlos Quintana. Semi-automated assessment of left ventricular mass using transaxial Tc-99m Sestamibi SPECT imaging. Computerized Medical Imaging and Graphics. 33 - 4, pp. 247 - 255. 01/06/2009.
Type of production: Scientific paper **Format:** Journal
- 16** Marcelo Galvez; Gonzalo Rojas; Jorge Cordovez; David Ladrón; Manuel Campos; Isabel Lopez. Cortical Displasias as Cause of Epilepsy and its Representations in Images. Revista Chilena de Radiología. 15 - Suppl. 1, pp. s25 - s38. 01/01/2009.



Type of production: Scientific paper

Format: Journal

- 17** Gonzalo Rojas; Jorge Cordovez; Marcelo Galvez; Jaime Cisternas; Takeshi Asahi; Eduardo Bravo. Combined use of functional magnetic resonance imaging and tractography to select specific white matter fibers: a preliminary study. *Revista Chilena de Radiología*. 14 - 4, pp. 227 - 230. 01/01/2008.

Type of production: Scientific paper

Format: Journal

- 18** Jaime Cisternas; Takeshi Asahi; Marcelo Galvez; Gonzalo Rojas; Eduardo Bravo. Development and implementation of a tractography software. *Revista Chilena de Radiología*. 14 - 1, pp. 31 - 35. 01/01/2008.

Type of production: Scientific paper

Format: Journal

- 19** Gonzalo Rojas; Ulrich Raff; Juan Carlos Quintana; Isidro Huete; Michael Hutchinson. Image Fusion in Neuroradiology: Three clinical examples including MRI of Parkinson disease. *Computerized Medical Imaging and Graphics*. 31 - 1, pp. 17 - 27. 01/01/2007.

Type of production: Scientific paper

Format: Journal

- 20** Ulrich Raff; Michael Hutchinson; Gonzalo Rojas; Isidro Huete. Inversion Recovery MRI in Idiopathic Parkinson disease is a very sensitive tool to assess neurodegeneration in the Substantia Nigra: Preliminary Investigation. *Academic Radiology*. 13 - 6, pp. 721 - 727. 01/06/2006.

Type of production: Scientific paper

Format: Journal

- 21** Rosario Rosales; Gonzalo Rojas; Marcelo Galvez; Pamela Gallardo; Lautaro Badilla. Detection of cortical maps of Motor and visual areas using fMRI. *Revista Chilena de Radiología*. 12 - 4, pp. 164 - 169. 01/01/2006.

Type of production: Scientific paper

Format: Journal

- 22** Gonzalo Rojas; Juan Carlos Quintana; Jorge Jer; Sergio Astudillo; Luis Arenas; Hector Araya. Analog gamma camera digitalization computer system. *Revista Española de Medicina Nuclear*. 23 - 2, pp. 107 - 114. 01/03/2004.

Type of production: Scientific paper

Format: Journal

- 23** Ulrich Raff; Gonzalo Rojas; Isidro Huete; Michael Hutchinson. Computer Assessment of Neurodegeneration in Parkinson Disease using data Fusion Techniques with MR images. *Academic Radiology*. 10 - 9, pp. 1036 - 1044. 01/09/2003.

Type of production: Scientific paper

Format: Journal

- 24** Guillermo Bugeo; Alejandro Bruhn; Glenn Hernández; Gonzalo Rojas; Rodrigo Aparicio; Luis Castillo. Independent lung ventilation in Acute Respiratory Distress Syndrome secondary to Descending Necrotizing Mediastinitis: Role of lung dynamic Computed Tomography. *Revista Médica de Chile*. 131 - 2, pp. 200 - 208. 01/02/2003.

Type of production: Scientific paper

Format: Journal

- 25** Guillermo Bugeo; Alejandro Bruhn; Glenn Hernández; G Rojas; C Varela; Juan Carlos Tapia; Luis Castillo. Lung Computed Tomography during a Lung Recruitment Maneuver in Patients with Acute Lung Injury. *Intensive Care Medicine*. 29 - 2, pp. 218 - 225. Springer-Verlag, 01/02/2003.

Type of production: Scientific paper

Format: Journal

- 26** Ulrich Raff; Gonzalo Rojas; Michael Hutchinson; Jack Simon. Quantitation of T2 Lesion Load in patients with Multiple Sclerosis: A Novel Semiautomated Segmentation Technique. *Academic Radiology*. 7 - 4, pp. 237 - 247. 01/04/2000.

Type of production: Scientific paper

Format: Journal

- 27** Ulrich Raff; Patricio Vargas; Gonzalo Rojas; Jack H Simon; Ann L Scherzinger. Quantitation of T2 Lesion Load in Multiple Sclerosis with Magnetic Resonance Imaging: a Pilot Study of a Probabilistic Neural Network Approach. *Academic Radiology*. 4 - 6, pp. 431 - 437. 01/06/1997.

Type of production: Scientific paper

Format: Journal



- 28** Luis Rodriguez; Patricio Vargas; Ulrich Raff; David Lynch; Gonzalo Rojas; Donna M Moxley; John D Newell. Automated Discrimination and Quantification of Idiopathic Pulmonary Fibrosis from Normal Lung Parenchyma Using Generalized Fractal Dimensions in High-Resolution Computed Tomography Images. *Academic Radiology*. 2 - 1, pp. 10 - 18. 01/01/1995.
Type of production: Scientific paper **Format:** Journal
- 29** José Miguel Aguilera; Gonzalo Rojas; Marcelo Galvez. Between Brain and Cell (Fig. 7.3). *Edible Structures. The Basic Science of What we eat*. CRC Press, Florida, USA, 01/01/2012.
Type of production: Book chapter **Format:** Book
- 30** Andrea Slachevsky; Pablo Reyes; Gonzalo Rojas; Jaime Silva. Prefrontal cortex and control of behavior: Evidence from neuropsychological study. From attention to Goal-Directed Behavior. Neurodynamical, methodological and clinical trends. Berlin(Germany): Eds. F. Aboitiz and D. Cosmelli. Springer, Berlin, Germany, 01/01/2008. ISBN 978-3-540-70572-7
Type of production: Book chapter **Format:** Book
- 31** Gonzalo Rojas Costa; Carlos Pon Soto; Leopoldo Bertossi. Presentation of the Chilean Association of Pattern Recognition, and General Description of the State-of-the-art of R&D in Pattern Recognition in Chile. *Pattern Recognition Advances in Iberoamerica*. Barcelona(Spain): A. Grau, Editor, Barcelona Digital, 01/09/2000. ISBN 84-7653-758-1
Legal deposit: B-36802-00
Type of production: Book chapter **Format:** Book
- 32** JM Saborit-Torres; JJ Saenz-Gamboa; JA Montell; JM Salinas; JA Gomez; I Stefan; M Caparrós; F García-García; J Domenech; J. V. Manjón; Gonzalo Rojas; A Pertusa; A Bustos; G González; J Galant; M de la Iglesia-Vayá. Medical imaging data structure extended to multiple modalities and anatomical regions. *arXiv*. Cornell University, 30/09/2020. Available on-line at: <<https://arxiv.org/abs/2010.00434>>.
Type of production: Preprint **Format:** Scientific and technical document or report
- 33** Jorge Fuentes; Rodrigo Nieto; Francisca Melis; Luz María Gonzalez; Gonzalo Rojas; Lina Ortiz; Rodrigo Erazo; Marcelo Galvez. Design and Implementation of a Virtual Reality System for Treating Highway Phobias: VRStreet. *PsyArXiv*. PsyArXiv, 24/02/2018.
DOI: 10.31234/osf.io/daqvf
Type of production: Preprint **Format:** Journal
- 34** Gonzalo Rojas; Carolina Alvarez; Carlos Montoya; María de la Iglesia-Vayá; Jaime Cisternas; Marcelo Galvez. Multimodal Study of Resting-State Functional Connectivity Networks using EEG electrodes position as seed. *bioRxiv*. 167585, Cold Spring Harbor Laboratory, 01/01/2017.
DOI: 10.1101/167585
Type of production: Preprint **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** Automated and Interpretable Detection of Hippocampal Sclerosis in temporal lobe epilepsy: AID-HS
Name of the conference: American Epilepsy Society Annual Meeting
City of event: Los Angeles, United States of America
Date of event: 06/12/2024
End date: 10/12/2024
Organising entity: American Epilepsy Society **Type of entity:** Associations and Groups
City organizing entity: Chicago, United States of America
Mathilde Ripart; Gonzalo M. Rojas-Costa; Marcelo Galvez; Sophie Adler; Konrad Wagstyl.



- 2** **Title of the work:** Multi-pathology MRI lesion segmentation in a multi-centre cohort of patients with focal epilepsy: a MELD study
Name of the conference: American Epilepsy Society Annual Meeting
City of event: Los Angeles, United States of America
Date of event: 06/12/2024
End date: 10/12/2024
Organising entity: American Epilepsy Society **Type of entity:** Associations and Groups
City organizing entity: Chicago, United States of America
Mathilde Ripart; Gonzalo M. Rojas-Costa; Agustín Ibañez; Sophie Adler; Konrad Wagstyl.
- 3** **Title of the work:** Impacto del Hiperandrogenismo en el Desarrollo Cerebral, Socioemocional y Funcional de Hijas de Pacientes con Síndrome de Ovario Poliquístico
Name of the conference: XXXV Congreso Chileno de Endocrinología y Diabetes
City of event: Puerto Varas, Chile
Date of event: 17/10/2024
End date: 19/10/2024
Organising entity: Sociedad Chilena de Endocrinología y Diabetes **Type of entity:** Healthcare Institutions
City organizing entity: Santiago, Chile
Juan Pablo del Rio; Valeska Tapia; Amanda Ladrón de Guevara; Manuel Maliqueo; Bárbara Echiburú; Pablo Gaspar; Francisco Zamorano; Gonzalo Rojas; Nicolás Crisosto.
- 4** **Title of the work:** Multi-pathology MRI lesion segmentation in a multi-centre cohort of patients with focal epilepsy: a MELD study
Name of the conference: Medical Imaging with Deep Learning, MIDL
Type of event: Conference **Geographical area:** European Union
City of event: Paris, Centre, France
Date of event: 03/07/2024
End date: 05/07/2024
Organising entity: MIDL Foundation **Type of entity:** Foundation
City organizing entity: Amsterdam, Holland
Type of contribution: Scientific paper
Mathilde Ripart; MELD Consortium; Sophie Adler; Konrad Wagstyl.
- 5** **Title of the work:** Hyperandrogenism and its influence on Emotional and Social Development in Adolescent Daughters of Women with Polycystic Ovary Syndrome
Name of the conference: ENDO 24
Type of event: Conference
City of event: Boston, United States of America
Date of event: 01/06/2024
End date: 04/06/2024
Organising entity: Endocrine Society **Type of entity:** Associations and Groups
City organizing entity: Washington, United States of America
Juan Pablo del Rio; Gonzalo Rojas Costa; M Maliqueo; B Echiburú; A Ladrón de Guevara; P Gaspar; M Alejandro; Nicolás Crisosto King.
- 6** **Title of the work:** Intracranial volume of Chinchorro mummies: an analysis
Name of the conference: Annual Meeting of the Organization for Human Brain Mapping 2023
Type of event: Conference
Corresponding author: Yes
City of event: Montreal, Canada



Date of event: 22/07/2023

End date: 26/07/2023

Organising entity: Organization for Human Brain Mapping **Type of entity:** Associations and Groups

City organizing entity: United States of America

Gonzalo Rojas; Yanis Valenzuela; Verónica Silva-Pinto; Maria de la Iglesia-Vayá; José Molina-Mateo; Marcelo Galvez.

7 Title of the work: Comparative analysis of Chinchorro mummies Intracranial volume

Name of the conference: 28th Annual Meeting of the Organization for Human Brain Mapping

Type of event: Conference

Corresponding author: Yes

City of event: Glasgow, Eastern Scotland, United Kingdom

Date of event: 19/06/2022

End date: 23/06/2022

Organising entity: Organization for Human Brain Mapping **Type of entity:** Associations and Groups

City organizing entity: United States of America

Gonzalo Rojas; Yanis Valenzuela; Verónica Silva-Pinto; Maria de la Iglesia-Vayá; José Molina-Mateo; Marcelo Galvez.

8 Title of the work: Augmented Reality and Functional Connectivity Visualization using ARCore

Name of the conference: 25th Annual Meeting of the Organization for Human Brain Mapping

City of event: Roma, Italy

Date of event: 15/06/2019

End date: 15/06/2019

Organising entity: Organization for Human Brain Mapping

City organizing entity: United States of America

Gonzalo Rojas; Jorge Fuentes; María de la Iglesia Vayá; Marcelo Galvez.

9 Title of the work: Automated segmentation in the diagnosis of focal cortical dysplasias with magnetic resonance imaging

Name of the conference: Brain Twitter Conference 2019, #braintc

City of event: Suomi, Finland

Date of event: 14/03/2019

End date: 14/03/2019

City organizing entity: Suomi, Finland

Gonzalo Rojas; Magdalena Sepúlveda; Evelyng Faure; Claudio Pardo; Maria de la Iglesia-Vayá; José Molina; Marcelo Galvez. Available on-line at: <http://braintc.aalto.fi/2019/?page_id=438>.

10 Title of the work: 3D Biomechanics Modeling and Simulation in Spondylolysis

Name of the conference: 54 Chilean Congress of Orthopedics and Traumatology

City of event: Santiago, Chile

Date of event: 15/11/2018

End date: 17/11/2018

City organizing entity: Santiago, Chile

Marcelo Galvez; Carlos Montoya; Gonzalo Rojas; Andrés Chahin.

11 Title of the work: Estimation of error in the measurement of porcine vertebral columns between computed tomography, 3D printing, and anatomical piece

Name of the conference: 54 Chilean Congress of Orthopedics and Traumatology

City of event: Santiago, Chile



Date of event: 15/11/2018

End date: 17/11/2018

City organizing entity: Santiago, Chile

Marcelo Galvez; Carlos Montoya; Jorge Fuentes; Gonzalo Rojas; William Currie; Mario Kuflik; Andrés Chahin.

12 Title of the work: 3D Biomechanics Modeling and Simulation in Spondylolysis

Name of the conference: LXI Chilean Congress of Neurosurgery

City of event: Puerto Varas, Chile

Date of event: 04/10/2018

End date: 06/10/2018

Organising entity: Chilean Society of Neurosurgery

City organizing entity: Puerto Varas, Chile

Marcelo Galvez; Carlos Montoya; Gonzalo Rojas; Andrés Chahin.

13 Title of the work: Estimation of error in the measurement of porcine vertebral columns between computed tomography, 3D printing, and anatomical piece

Name of the conference: LXI Chilean Congress of Neurosurgery

City of event: Puerto Varas, Chile

Date of event: 04/10/2018

End date: 06/10/2018

City organizing entity: Santiago, Chile

Marcelo Galvez; Carlos Montoya; Jorge Fuentes; Gonzalo Rojas; William Currie; Mario Kuflik; Andrés Chahin.

14 Title of the work: Use of 3D printing in surgical spine planning

Name of the conference: LXI Chilean Congress of Neurosurgery

City of event: Puerto Varas, Chile

Date of event: 04/10/2018

End date: 06/10/2018

Organising entity: Chilean Society of Neurosurgery

City organizing entity: Santiago, Chile

Andrés Chahin; Jorge Fuentes; Carlos Montoya; Gonzalo Rojas; Marcelo Galvez.

15 Title of the work: Visualization of Functional Connectivity Networks using VR glasses

Name of the conference: 23rd Annual Meeting of the Organization for Human Brain Mapping

City of event: Vancouver, Canada

Date of event: 25/06/2017

End date: 29/06/2017

Organising entity: Organization for Human Brain Mapping

City organizing entity: Minneapolis, United States of America

Gonzalo Rojas; Jorge Fuentes; Carlos Montoya; María de la Iglesia-Vayá; Marcelo Galvez.

16 Title of the work: Visualization of Functional Connectivity Networks using HTC-Vive VR glasses

Name of the conference: 2nd Latin American Brain Mapping Network Meeting LABMAN

City of event: Buenos Aires, Argentina

Date of event: 16/03/2017

End date: 17/03/2017

Organising entity: LABMAN

City organizing entity: Minneapolis, United States of America

Gonzalo Rojas; Jorge Fuentes; Carlos Montoya; María de la Iglesia-Vayá; Marcelo Galvez.



- 17 Title of the work:** Virtual reality intrinsic functional connectivity visualization application for mobile devices: VRiBrain
Name of the conference: 5th Biennial Conference on Resting State and Brain Connectivity
City of event: Viena, Austria
Date of event: 21/09/2016
End date: 23/09/2016
Gonzalo Rojas; Jorge Fuentes; Carlos Montoya; Marcelo Galvez.
- 18 Title of the work:** Virtual Reality Intrinsic Functional Connectivity Visualization Application: VRiBrain
Name of the conference: 22nd Annual Meeting of the Organization for Human Brain Mapping
City of event: Ginebra, Switzerland
Date of event: 26/06/2016
End date: 30/06/2016
Organising entity: Organization for Human Brain Mapping
City organizing entity: Minneapolis, United States of America
Gonzalo Rojas; Jorge Fuentes; Carlos Montoya; María de la Iglesia-Vayá; Marcelo Galvez.
- 19 Title of the work:** Augmented Reality Mobile Applications to Interactively Show Complex Spine Pathologies: First Version
Name of the conference: Global Spine Congress 2016
City of event: Dubai, United Arab Emirates
Date of event: 13/04/2016
End date: 16/04/2016
Organising entity: AOSpine
City organizing entity: Davos, Switzerland
Marcelo Galvez; Gonzalo Rojas; Jorge Fuentes; Takeshi Asahi; Carlos Montoya; Aaron Vidal; William Currie; Andrés Chahin.
- 20 Title of the work:** Diagnostic value of pre-Surgical F18-FDG PET/CT and MRI in Refractory Focal Epilepsy. Histopathological and surgical outcome correlation
Name of the conference: XXII World Congress of Neurology
City of event: Santiago, Chile
Date of event: 31/10/2015
End date: 05/11/2015
Andrea Zúñiga; David Ladrón-de-Guevara; A Zúñiga-Fajuri; Manuel Campos; Loreto Rios; Francesca Solari; Gisela Kuester; David Martinez; Magdalena Sepúlveda; Marcelo Galvez; Facundo las-Heras; Carolina Perez; Carolina Alvarez; Larisa Fabres; Ximena Varela; Felipe Otayza; Andrea Contreras; Gonzalo Rojas.
- 21 Title of the work:** Mobile Application to study vertebral malformations (Skeletal Dysplasia View: Spine)
Name of the conference: SLARP 2015
City of event: Santiago, Chile
Date of event: 15/10/2015
End date: 17/10/2015
Organising entity: Chilean Society of Radiology **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Jorge Fuentes; Marcelo Galvez; Gonzalo Rojas; Takeshi Asahi; Ximena Ortega; Fanny Cortes.
- 22 Title of the work:** Mobile Applications for visualization of functional connectivity networks: iBrain, iBrainEEG
Name of the conference: Chilean Congress of Radiology



City of event: Santiago, Chile
Date of event: 15/10/2015
End date: 17/10/2015
Organising entity: Chilean Society of Radiology
City organizing entity: Santiago, Chile
Gonzalo Rojas; Jorge Fuentes; Marcelo Galvez.

- 23** **Title of the work:** Augmented and Virtual Reality Applications to Show Complex Spine pathologies: First Version
Name of the conference: EUROSPINE 2015
City of event: Copenhagen, Denmark
Date of event: 02/09/2015
End date: 04/09/2015
Marcelo Galvez; Gonzalo Rojas; Jorge Fuentes; Takeshi Asahi; Carlos Montoya; Aaron Vidal; William Currie; Andrés Chahin.
- 24** **Title of the work:** Augmented Reality rsfc-MRI Visualization Application: ARiBrain3T, iBrain, iBrainEEG: New Versions
Name of the conference: 21st Annual Meeting of the Organization for Human Brain Mapping
City of event: Honolulu, United States of America
Date of event: 14/06/2015
End date: 18/06/2015
Organising entity: Organization for Human Brain Mapping
Type of entity: Associations and Groups
City organizing entity: Minneapolis, United States of America
Gonzalo Rojas; Jorge Fuentes; Marcelo Galvez; DS Margulies.
- 25** **Title of the work:** BIMCV: Synergy between data in population medical imaging, computer-aided diagnosis, and AVR
Name of the conference: 21st Annual Meeting of the Organization for Human Brain Mapping
City of event: Honolulu, United States of America
Date of event: 14/06/2015
End date: 18/06/2015
Organising entity: Organization for Human Brain Mapping
Type of entity: Associations and Groups
City organizing entity: Minneapolis, United States of America
Maria de la Iglesia-Vayá; A Fernández-Cañada; J Isnardo Altamirano; FX Castellanos; Gonzalo Rojas; Erika Proal; JM Salinas; J Martinez; JM Puig Saqués.
- 26** **Title of the work:** rfc-MRI Visualization Applications: iBrain, iBrainEEG
Name of the conference: 1st Latin American Brain Mapping Network Meeting LABMAN
City of event: Sao Paulo, Brazil
Date of event: 13/03/2015
End date: 14/03/2015
Organising entity: LABMAN
Type of entity: Associations and Groups
Gonzalo Rojas; Jorge Fuentes; Marcelo Galvez; María de la Iglesia-Vayá.
- 27** **Title of the work:** Pattern approach for brain connectivity using K-means clustering of resting-state fMRI time series using 10-10 EEG related seeds
Name of the conference: 4th Biennial Conference on Resting State Brain Connectivity
Type of event: Conference
City of event: Boston, United States of America



Date of event: 11/09/2014
End date: 13/09/2014
City organizing entity: Boston, United States of America
Carlos Montoya; Gonzalo Rojas; Marcelo Gálvez; Jaime Cisternas.

28 Title of the work: Augmented Reality and Intrinsic Functional Connectivity Visualization Application: ARiBrain3T

Name of the conference: 4th Biennial Conference on Resting State Brain Connectivity

City of event: Boston, United States of America

Date of event: 11/09/2014

End date: 13/09/2014

Gonzalo Rojas; Jorge Fuentes; Marcelo Gálvez; Daniel Margulies.

29 Title of the work: Two Intrinsic Functional Connectivity Visualization Mobile Applications: iBrain and iBrainEEG

Name of the conference: 4th Biennial Conference on Resting State Brain Connectivity

City of event: Boston, United States of America

Date of event: 11/09/2014

End date: 13/09/2014

Gonzalo Rojas; Jorge Fuentes; Marcelo Gálvez; Daniel Margulies.

30 Title of the work: Augmented Reality and Intrinsic Functional Connectivity Visualization Application: ARiBrain, iBrain

Name of the conference: 20th Annual Meeting of the Organization for Human Brain Mapping

City of event: Hamburg, Germany

Date of event: 08/06/2014

End date: 12/06/2014

Organising entity: Organization for Human Brain Mapping

Gonzalo Rojas; Jorge Fuentes; Marcelo Gálvez; Daniel Margulies.

31 Title of the work: Cluster Analysis of Resting-State fMRI Time Series (10-10 EEG related seeds): preliminary results

Name of the conference: 20th Annual Meeting of the Organization for Human Brain Mapping

City of event: Hamburg, Germany

Date of event: 08/06/2014

End date: 12/06/2014

Organising entity: Organization for Human Brain Mapping

Gonzalo Rojas; Carlos Montoya; Jaime Cisternas; Marcelo Gálvez.

32 Title of the work: Influence of Latrophilin-3 (LPHN3) on Brain Structure and Function in Adults with ADHD

Name of the conference: 20th Annual Meeting of the Organization for Human Brain Mapping

City of event: Hamburg, Germany

Date of event: 08/06/2014

End date: 12/06/2014

Organising entity: Organization for Human Brain Mapping **Type of entity:** international organization

City organizing entity: Minneapolis, United States of America

Erika Proal; Mauricio Arcos-Burgos; Ana Moreno; Gonzalo Rojas; Valeria Ruiz; Yasser Alemán-Gómez; Edith Pomarol-Clote; Raymond Salvador; Joaquim Radua; Marta Ribases; Josep Ramos-Quiroga; Cristina Sanchez-Mora; Rosa Bosch; Vanesa Richarte; Miguel Casas; Clare Kelly; Michael Milham; Francisco Castellanos.



- 33** **Title of the work:** Methodological framework to study synchrony and effective connectivity with ICA
Name of the conference: 20th Annual Meeting of the Organization for Human Brain Mapping
City of event: Hamburg, Germany
Date of event: 08/06/2014
End date: 12/06/2014
Organising entity: Organization for Human Brain Mapping
María de la Iglesia-Vayá; José Molina-Mateo; María José Escarti; Luis Martí-Bonmati; Marien Gadea; Gemma Monté; Francisco Xavier Castellanos; Erika Proal; Gonzalo Rojas; Bharat Biswal; Julio Sanjuan.
- 34** **Title of the work:** Functional Connectivity Networks obtained using 10-20 EEG and 7 standard functional networks
Name of the conference: 19th Annual Meeting of the Organization for Human Brain Mapping
City of event: Seattle, United States of America
Date of event: 16/06/2013
End date: 20/06/2013
Organising entity: Organization for Human Brain Mapping
Gonzalo Rojas; Marcelo Gálvez.
- 35** **Title of the work:** Use of Brain Volumetry and lesion load semi-automatic quantification techniques in monitoring patients with multiple sclerosis. Local experience and literature review
Name of the conference: Chilean Congress of Radiology
City of event: Viña del Mar, Chile
Date of event: 25/10/2012
End date: 27/10/2012
Organising entity: Sociedad Chilena de Radiología **Type of entity:** Sociedad médica
City organizing entity: Santiago, Chile
Jorge Cordovez; Marcelo Gálvez; Gonzalo Rojas; Cirstobal Bravo.
- 36** **Title of the work:** Intrinsic functional connectivity networks in adults with childhood attention-deficit hyperactivity disorder at 33-year follow-up
Name of the conference: 3rd Biennial Conference on Resting State Brain Connectivity
City of event: Magdeburg, Germany
Date of event: 05/09/2012
End date: 07/09/2012
Erika Proal; Francisco Castellanos; Gonzalo Rojas; S Mannuzza; R Klein; M Milham; C Kelly.
- 37** **Title of the work:** Study of Functional Connectivity Networks obtained using 10-10 EEG System related seeds: Preliminary Results
Name of the conference: 3rd Biennial Conference on Resting State Brain Connectivity
City of event: Magdeburg, Germany
Date of event: 05/09/2012
End date: 07/09/2012
Gonzalo Rojas; Marcelo Gálvez.
- 38** **Title of the work:** Functional and Structural Connectivity of the Motor Area in a Double Cortex Patient
Name of the conference: 18th Annual Meeting of the Organization for Human Brain Mapping
City of event: Beijing, China
Date of event: 10/06/2012
End date: 14/06/2012
Organising entity: Organization for Human Brain Mapping
City organizing entity: Minneapolis, United States of America



Gonzalo Rojas; Marcelo Gálvez; María de la Iglesia-Vaya.

39 Title of the work: Study of Functional Connectivity Networks obtained using EEG related seeds: Preliminary Results

Name of the conference: 18th Annual Meeting of the Organization for Human Brain Mapping

City of event: Beijing, China

Date of event: 10/06/2012

End date: 14/06/2012

Organising entity: Organization for Human Brain Mapping

City organizing entity: Minneapolis, United States of America

Gonzalo Rojas; Marcelo Gálvez.

40 Title of the work: Applications of stereoscopic 3D in morphometric and functional imaging

Name of the conference: 17th Annual Meeting of the Organization for Human Brain Mapping

City of event: Quebec, Canada

Date of event: 26/06/2011

End date: 30/06/2011

Organising entity: Organization for Human Brain Mapping

City organizing entity: Minneapolis, United States of America

Gonzalo Rojas; Marcelo Gálvez; Jorge Cordovez; Daniel Margulies; Francisco Castellanos; Michael Milham.

41 Title of the work: Epilepsy Surgery in an advanced epilepsy center in Chile

Name of the conference: 19th International Cleveland Clinic Epilepsy Symposia, Cleveland Clinic

City of event: Cleveland, United States of America

Date of event: 01/10/2010

End date: 06/10/2010

Organising entity: Cleveland Clinic

Type of entity: Healthcare Institutions

City organizing entity: Cleveland, United States of America

Gisela Kuester; Manuel Campos; Loreto Rios; Francesca Solari; Isabel López; Larisa Fabres; Andrea Contreras; Ximena Varela; Marcelo Gálvez; David Ladrón; Emilio Muñoz; Vania Krauskopf; Roger Gejman; Carolina Perez; Loreto Olate; Carlos Lobos; Gonzalo Rojas; Felipe Otayza.

42 Title of the work: Ictal PET findings in patients with refractory epilepsy and focal cortical dysplasia

Name of the conference: 19th International Cleveland Clinic Epilepsy Symposia, Cleveland Clinic

City of event: Cleveland, United States of America

Date of event: 01/10/2010

End date: 06/10/2010

Organising entity: Cleveland Clinic

Type of entity: Healthcare Institutions

City organizing entity: Cleveland, United States of America

Gisela Kuester; Manuel Campos; David Ladrón; Loreto Rios; Roger Gejman; Marcelo Gálvez; Gonzalo Rojas; Felipe Otayza; Claudio Pardo.

43 Title of the work: Functional Connectivity of ITG in a patient with TLE using Resting-State fMRI and Tractography

Name of the conference: 16th Annual Meeting of the Organization for Human Brain Mapping

City of event: Barcelona, Spain

Date of event: 06/06/2010

End date: 10/06/2010

Organising entity: Organization for Human Brain Mapping

City organizing entity: Minneapolis, United States of America



Gonzalo Rojas; Marcelo Gálvez; Jorge Cordovez; Manuel Campos; Isabel Lopez.

- 44 Title of the work:** Automated determination of cerebral hemispheric dominance in language comprehension using functional magnetic resonance imaging
Name of the conference: LXIV Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Puerto Varas, Chile
Date of event: 12/11/2009
End date: 14/11/2009
Organising entity: SONEPSYN
City organizing entity: Santiago, Chile
Gonzalo Rojas; Jorge Cordovez; Marcelo Galvez; Ulrich Raff.
- 45 Title of the work:** Lie detector using Functional Magnetic Resonance
Name of the conference: LXIV Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Puerto Varas, Chile
Date of event: 12/11/2009
End date: 14/11/2009
Organising entity: SONEPSYN
City organizing entity: Puerto Varas, Chile
Marcelo Gálvez; Gonzalo Rojas; Jorge Cordovez; Carolina Pérez; Alejandro Cerda.
- 46 Title of the work:** Neurodegenerative patterns in progressive supranuclear palsy patients can be differentiated from those obtained in idiopathic Parkinson disease at an early stage
Name of the conference: LXIV Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Puerto Varas, Chile
Date of event: 12/11/2009
End date: 14/11/2009
Organising entity: SONEPSYN
City organizing entity: Santiago, Chile
Ulrich Raff; Gonzalo Rojas; Marcelo Galvez; Pedro Chaná; Isidro Huete; Andrea Slachevsky; Néelson Lafont; José Miguel Allendes; Michael Hutchinson.
- 47 Title of the work:** Surface mapping and cortical thickness analysis using complex image processing techniques: an Ulegyria case
Name of the conference: LXIV Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Puerto Varas, Chile
Date of event: 12/11/2009
End date: 14/11/2009
Organising entity: SONEPSYN
City organizing entity: Santiago, Chile
Gonzalo Rojas; Jorge Cordovez; Marcelo Gálvez; Claudio Pardo.
- 48 Title of the work:** Lie detector using Functional Magnetic Resonance
Name of the conference: Chilean Congress of Radiology 2009
City of event: Viña del Mar, Chile
Date of event: 28/10/2009
End date: 31/10/2009
Organising entity: Sociedad Chilena de Radiología
City organizing entity: Santiago, Chile
Marcelo Gálvez; Gonzalo Rojas; Jorge Cordovez; Carolina Pérez; Alejandro Cerda.



- 49** **Title of the work:** Surface mapping and cortical thickness analysis using complex image processing techniques: an Ulegyria case
Name of the conference: Chilean Congress of Radiology 2009
City of event: Viña del Mar, Chile
Date of event: 28/10/2009
End date: 31/10/2009
Organising entity: Sociedad Chilena de Radiología
City organizing entity: Santiago, Chile
Gonzalo Rojas; Jorge Cordovez; Marcelo Gálvez; Claudio Pardo.
- 50** **Title of the work:** Estimation of Multiple Fiber Orientations using Convex Optimization
Name of the conference: 17th ISMRM 2009 (Annual Conference of the International Society of Magnetic Resonance in Medicine)
City of event: Honolulu, United States of America
Date of event: 18/04/2009
End date: 24/04/2009
Organising entity: International Society of Magnetic Resonance in Medicine
City organizing entity: Berkeley, United States of America
Jaime Cisternas; TB Dyrby; Takeshi Asahi; Marcelo Gálvez; Gonzalo Rojas.
- 51** **Title of the work:** Determination of Brain hemispheric dominance using 3 Tesla functional magnetic resonance imaging
Name of the conference: LXIII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Viña del Mar, Chile
Date of event: 30/10/2008
End date: 01/11/2008
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Gonzalo Rojas; Rosario Rosales. "Determination of Brain hemispheric dominance using 3 Tesla functional magnetic resonance imaging". En: Revista Chilena de Neuro-Psiquiatría. 46 - Supl 1, pp. S 41 - S 41.
- 52** **Title of the work:** Selection of different association fibers using 3-T MRI tractography
Name of the conference: LXIII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Viña del Mar, Chile
Date of event: 30/10/2008
End date: 01/11/2008
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Rosario Rosales; Gonzalo Rojas; Cristián Vásquez. "Selection of different association fibers using 3-T MRI tractography". En: Revista Chilena de Neuro-Psiquiatría. 46 - Supl 1, pp. S 41 - S 41.
- 53** **Title of the work:** Tractography with 3T MRI in patients with brain tumors: morphological effects in nerve tracts
Name of the conference: LXIII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Viña del Mar, Chile
Date of event: 30/10/2008
End date: 01/11/2008
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Gonzalo Rojas; Rosario Rosales. "Tractography with 3T MRI in patients with brain tumors: morphological effects in nerve tracts". En: Revista Chilena de Neuro-Psiquiatría. 46 - Supl 1, pp. S 41 - S 41.



- 54 Title of the work:** Determination of Brain hemispheric dominance using 3 Tesla functional magnetic resonance imaging
Name of the conference: Chilean Congress of Radiology 2008
City of event: Viña del Mar, Chile
Date of event: 03/10/2008
End date: 05/10/2008
Organising entity: Sociedad Chilena de Radiología
City organizing entity: Santiago, Chile
Gonzalo Rojas; Rosario Rosales.
- 55 Title of the work:** Selection of different association fibers using tractography acquired by 3-T MRI
Name of the conference: Chilean Congress of Radiology 2008
City of event: Viña del Mar, Chile
Date of event: 03/10/2008
End date: 05/10/2008
Organising entity: Sociedad Chilena de Radiología
City organizing entity: Santiago, Chile
Rosario Rosales; Gonzalo Rojas; Cristián Vásquez.
- 56 Title of the work:** Estimation of Multiple Fiber Orientations from Brain Diffusion Weighted Images
Name of the conference: 33rd European Society of Neuroradiology Annual Meeting (ESNR XXXIII Congress)
City of event: Cracovia, Poland
Date of event: 18/09/2008
End date: 21/09/2008
Organising entity: European Society of Neuroradiology
City organizing entity: Zürich, Switzerland
Marcelo Gálvez; Jaime Cisternas; Takeshi Asahi; Gonzalo Rojas; L Cartier; Eduardo Bravo; Gabriel Sordo; G Quiroz. "Estimation of Multiple Fiber Orientations from Brain Diffusion Weighted Images". En: Neuroradiology. 50 - Supl 1, pp. S27 - S28.
- 57 Title of the work:** Obtaining Talairach coordinates from visual area cortical maps with fMRI and some neurological conclusions
Name of the conference: 33rd European Society of Neuroradiology Annual Meeting (ESNR XXXIII Congress)
City of event: Cracovia, Poland
Date of event: 18/09/2008
End date: 21/09/2008
Organising entity: European Society of Neuroradiology
City organizing entity: Zürich, Switzerland
Gonzalo Rojas; Marcelo Gálvez; Takeshi Asahi; Eduardo Bravo. "Obtaining Talairach coordinates from visual area cortical maps with fMRI and some neurological conclusions". En: Neuroradiology. 50 - Supl 1, pp. S93 - S93.
- 58 Title of the work:** Regularization of Diffusion Tensor Images
Name of the conference: 5th ISBI 2008 (IEEE International Symposium on Biomedical Imaging)
City of event: Paris, France
Date of event: 14/05/2008
End date: 17/05/2008
Organising entity: IEEE
City organizing entity: Piscataway, United States of America



Jaime Cisternas; Takeshi Asahi; Marcelo Gálvez; Gonzalo Rojas.

- 59** **Title of the work:** Interpolation and Regularization of Diffusion Tensor Images along Geodesics
Name of the conference: 16th ISMRM 2009 (Annual Conference of the International Society of Magnetic Resonance in Medicine)
City of event: Honolulu, United States of America
Date of event: 03/05/2008
End date: 09/05/2008
Organising entity: International Society of Magnetic Resonance in Medicine
City organizing entity: Toronto, Canada
Jaime Cisternas; Marcelo Gálvez; Gonzalo Rojas; Takeshi Asahi.
- 60** **Title of the work:** Brodmann Areas (BA) and functional MRI (fMRI): A study of patients with cerebral arteriovenous malformations
Name of the conference: LXII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Temuco, Chile
Date of event: 01/11/2007
End date: 03/11/2007
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Jorge Cordovez Maira; Gonzalo Rojas; Marcelo Galvez; Takeshi Asahi Kodama; Eduardo Bravo Castro.
- 61** **Title of the work:** Combined use of functional magnetic resonance imaging and tractography to select specific white matter fibers
Name of the conference: Chilean Congress of Radiology 2007
City of event: Viña del Mar, Chile
Date of event: 01/11/2007
End date: 04/11/2007
Organising entity: SOCHRADI **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Gonzalo Rojas; Jorge Cordovez Maira; Marcelo Galvez Moya; Jaime Cisternas Elgueta; Takeshi Asahi Kodama; Eduardo Bravo Castro.
- 62** **Title of the work:** Combined use of functional magnetic resonance imaging and tractography to select specific white matter fibers: a clinical case
Name of the conference: LXII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Temuco, Chile
Date of event: 01/11/2007
End date: 03/11/2007
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Gonzalo Rojas; Jorge Cordovez Maira; Marcelo Galvez; Takeshi Asahi Kodama; Eduardo Bravo.
- 63** **Title of the work:** Development and implementation of a tractography software
Name of the conference: Chilean Congress of Radiology 2007
City of event: Viña del Mar, Chile
Date of event: 01/11/2007
End date: 04/11/2007
Organising entity: SOCHRADI
City organizing entity: Santiago, Chile
Jaime Cisternas; Takeshi Asahi; Marcelo Galvez; Gonzalo Rojas; Eduardo Bravo.



- 64** **Title of the work:** Development and implementation of a tractography software
Name of the conference: LXII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Temuco, Chile
Date of event: 01/11/2007
End date: 03/11/2007
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Jaime Cisternas; Takeshi Asahi; Marcelo Galvez; Gonzalo Rojas; Eduardo Bravo.
- 65** **Title of the work:** Diffusion imaging postprocessing software (DTI.py): A validation of clinical cases of Multiple Sclerosis, Glioblastoma, Trauma
Name of the conference: LXII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Temuco, Chile
Date of event: 01/11/2007
End date: 03/11/2007
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Gonzalo Rojas; Jaime Cisternase Elgueta; Takeshi Asahi Kodama; Marcelo Galvez Moya; Eduardo Bravo Castro.
- 66** **Title of the work:** Magnetic Resonance Imaging in Progressive Supranuclear Palsy (PSP) can unequivocally differentiate PSP from Idiopathic Parkinson disease
Name of the conference: LXII Chilean Congress of Neurology, Psychiatry, and Neurosurgery
City of event: Temuco, Chile
Date of event: 01/11/2007
End date: 03/11/2007
Organising entity: SONESYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Gonzalo Rojas; Ulrich Raff; Marcelo Galvez; Pedro Chana; Ximena Fassler; Eduardo Bravo.
- 67** **Title of the work:** Morphological changes of the Brain Surface using 3D Magnetic Resonance in Cortical Dysplasias
Name of the conference: LXII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Temuco, Chile
Date of event: 01/11/2007
End date: 03/11/2007
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Marcelo Galvez; Eduardo Bravo; Lautaro Badilla; Jorge Cordovez; Aaron Vidal; Gonzalo Rojas.
- 68** **Title of the work:** Obtaining Talairach coordinates from visual area cortical maps with functional MRI (fMRI)
Name of the conference: Chilean Congress of Radiology 2007
City of event: Viña del Mar, Chile
Date of event: 01/11/2007
End date: 04/11/2007
Organising entity: SOCHRADI **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Gonzalo Rojas Costa; Jorge Cordovez Maira; Marcelo Galvez Moya; Takeshi Asahi Kodama; Eduardo Bravo Castro.



- 69** **Title of the work:** Tractography Software (DTI.py): A validation
Name of the conference: Chilean Congress of Radiology 2007
City of event: Viña del Mar, Chile
Date of event: 01/11/2007
End date: 04/11/2007
Organising entity: SOCHRADI
City organizing entity: Santiago, Chile
Gonzalo Rojas; Jaime Cisternas Elgueta; Marcelo Galvez Moya; Takeshi Asahi Kodama; Eduardo Bravo Castro.
- 70** **Title of the work:** Tractography in cortical malformations: Schizencephaly and connectivity. Clinical case
Name of the conference: LXII Chilean Congress of Neurology, Psychiatry and Neurosurgery
City of event: Temuco, Chile
Date of event: 01/11/2007
End date: 03/11/2007
Organising entity: SONEPSYN **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Marcelo Galvez; Gonzalo Rojas; Eduardo Bravo; Cecilia Okuma; Jorge Cordovez; Gabriel Sordo.
- 71** **Title of the work:** A new software for DTI processing, computation of anisotropy indices, and Tractography: Description and Validation of the technique
Name of the conference: Jornadas Chilenas de Ingeniería Biomédica
City of event: Viña del Mar, Chile
Date of event: 10/10/2007
End date: 12/10/2007
Organising entity: Universidad de Valparaíso **Type of entity:** University
City organizing entity: Valparaíso, Chile
Gonzalo Rojas; Jaime Cisternas; Takeshi Asahi; Marcelo Galvez; Eduardo Bravo.
- 72** **Title of the work:** Computation of Left Ventricular Mass from transaxial Tc-99m sestamibi SPECT images without reorientation
Name of the conference: Jornadas Chilenas de Ingeniería Biomédica
City of event: Viña del Mar, Chile
Date of event: 10/10/2007
End date: 12/10/2007
Organising entity: Universidad de Valparaíso **Type of entity:** University
City organizing entity: Valparaíso, Chile
Gonzalo Rojas; Ulrich Raff; Patricio Gonzalez; Rodrigo Jaimovich; Juan Carlos Quintana.
- 73** **Title of the work:** Noise reduction of diffusionweighted images using the Total Variation method
Name of the conference: Jornadas Chilenas de Ingeniería Biomédica
City of event: Viña del Mar, Chile
Date of event: 10/10/2007
End date: 12/10/2007
Organising entity: Universidad de Valparaíso **Type of entity:** University
City organizing entity: Valparaíso, Chile
Jaime Cisternas; Takeshi Asahi; Marcelo Galvez; Gonzalo Rojas; Eduardo Bravo.
- 74** **Title of the work:** Normal myelinization patterns in children by means of diffusion tensor imaging
Name of the conference: XIX Congress of the Ibero-Latin American Society of Diagnostic and Therapeutic Neuroradiology SILAN 2007



City of event: Sevilla, Spain

Date of event: 16/04/2007

End date: 20/04/2007

Organising entity: SILAN

Type of entity: Associations and Groups

City organizing entity: Spain

Marcelo Galvez; Jaime Cisternas; Takeshi Asahi; Gonzalo Rojas; Lautaro Badilla; Eduardo Bravo; Gabriel Sordo; Cecilia Okuma; Jorge Cordovez; Daniela Maldini.

75 Title of the work: A new software tool for DTI processing and computation of anisotropy indices: a description and preliminary validation

Name of the conference: Symposium Vision by Brains and Machines VBM2006

City of event: Montevideo, Uruguay

Date of event: 13/11/2006

End date: 17/11/2006

Organising entity: International Brain Research Organization

Type of entity: Associations and Groups

City organizing entity: Paris, France

Gonzalo Rojas; Jaime Cisternas; Marcelo Galvez; Takeshi Asahi; Lautaro Badilla.

76 Title of the work: Automated detection of left ventricular borders and calculation of myocardial mass using non-reoriented Tc- 99m Sestamibi SPECT images

Name of the conference: II Chilean Congress of Nuclear Medicine

City of event: Reñaca, Chile

Date of event: 10/11/2006

End date: 10/11/2006

City organizing entity: Chile

Gonzalo Rojas; Ulrich Raff; Patricio Gonzalez; Rodrigo Jaimovich. En: Alasbimn Journal. 9 - 35,

77 Title of the work: Use of functional MRI to obtain the cortical mapping of eloquent areas in patients with cerebral AVM

Name of the conference: LXI Chilean Congress of Neurology, Psychiatry and Neurosurgery

City of event: La Serena, Chile

Date of event: 02/11/2006

End date: 04/11/2006

Organising entity: SONEPSYN

Type of entity: Associations and Groups

City organizing entity: Santiago, Chile

Gonzalo Rojas; Rosario Rosales; Marcelo Galvez; Jorge Cordovez; Gabriel Sordo; Takeshi Asahi; Lautaro Badilla; Eduardo Bravo.

78 Title of the work: Cortical mapping of receptive and expressive language areas using functional MRI with BOLD technique

Name of the conference: Chilean Congress of Radiology 2006

City of event: Viña del Mar, Chile

Date of event: 13/10/2006

End date: 15/10/2006

Organising entity: SOCHRADI

Type of entity: Associations and Groups

City organizing entity: Santiago, Chile

Rosario Rosales; Gonzalo Rojas; Marcelo Galvez; Jorge Cordovez; Takeshi Asahi; Lautaro Badilla.



- 79** **Title of the work:** Detection of cortical maps of motor and visual areas using fMRI
Name of the conference: Chilean Congress of Radiology 2006
City of event: Viña del Mar, Chile
Date of event: 13/10/2006
End date: 15/10/2006
Organising entity: SOCHRADI **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Rosario Rosales; Gonzalo Rojas; Marcelo Galvez; Jorge Cordovez; Lautaro Badilla.
- 80** **Title of the work:** Hemodynamic characterization of Ruptured and Unruptured cerebral aneurysms using computer fluid dynamics
Name of the conference: ESNR 06 31st Congress & 15th Advanced Course
City of event: Ginebra, Switzerland
Date of event: 13/09/2006
End date: 16/09/2006
Organising entity: ESNR **Type of entity:** Associations and Groups
Marcelo Galvez; Eduardo Bravo; Alvaro Valencia; Rodrigo Rivera; H Morales; Lautaro Badilla; Gabriel Sordo; Takeshi Asahi; Gonzalo Rojas; Marcelo Peldoza.
- 81** **Title of the work:** Characterization of the alteration of the signal in conventional sequences and diffusion tensor in high-grade gliomas
Name of the conference: SILAN Congress 2006
City of event: San Juan, Puerto Rico
Date of event: 05/06/2006
End date: 09/06/2006
Organising entity: SILAN
Marcelo Galvez; Jaime Cisternas; Gonzalo Rojas; Lautaro Badilla; Eduardo Bravo; Gabriel Sordo; Jorge Cordovez; Takeshi Asahi.
- 82** **Title of the work:** Characterization of the hemodynamic response in cerebral aneurysms using a fluid dynamics computer model
Name of the conference: SILAN Congress 2006
City of event: San Juan, Puerto Rico
Date of event: 05/06/2006
End date: 09/06/2006
Organising entity: SILAN **Type of entity:** Associations and Groups
Marcelo Galvez; Alvaro Valencia; Rodrigo Rivera; H Morales; Lautaro Badilla; Eduardo Bravo; Gabriel Sordo; Jorge Cordovez; Marcelo Peldoza; Takeshi Asahi; Gonzalo Rojas.
- 83** **Title of the work:** Tomographic Reconstruction Methods of Myocardial SPECT images: an evaluation
Name of the conference: XX Alasbimn Congress
City of event: Punta del Este, Uruguay
Date of event: 04/12/2005
End date: 07/12/2005
Organising entity: Alasbimn
City organizing entity: Montevideo, Uruguay
Gonzalo Rojas; Patricio Gonzalez; Rodrigo Jaimovich; Ulrich Raff.
- 84** **Title of the work:** Neuroanatomical basis of behavioral disturbances in patients with prefrontal lesions
Name of the conference: World Federation of Neurology Research Group on Aphasia and Cognitive Disorders Conference
City of event: Cambridge, United Kingdom



Date of event: 30/06/2005

End date: 02/07/2005

Organising entity: World Federation of Neurology

City organizing entity: Londres, United Kingdom

Andrea Slachevsky; Marcela Peña; Carolina Perez; Gonzalo Rojas; Eduardo Bravo; Patricia Alegría.

- 85** **Title of the work:** Symmetric 1-D Wavelets for Iris Recognition: Preliminary Results
Name of the conference: First IEEE Latin American Conference on Robotics and Automation LCRA 2003
City of event: Santiago, Chile
Date of event: 24/11/2003
End date: 26/11/2003
Organising entity: IEEE **Type of entity:** Associations and Groups
City organizing entity: Nueva Jersey, United States of America
Renato Salinas; Ulrich Raff; Gonzalo Rojas.
- 86** **Title of the work:** Visual Assessment of Neurodegeneration in Patients with Parkinson Disease and Parkinsonism using MR Images and Data Fusion Techniques
Name of the conference: XI PanAmerican Congress of Neurology
City of event: Santiago, Chile
Date of event: 08/10/2003
End date: 11/10/2003
Organising entity: Federación Panamericana de Sociedades Neurológicas (PAFNS)
City organizing entity: Santiago, Chile
Gonzalo Rojas; Ulrich Raff; Isidro Huete; Michael Hutchinson.
- 87** **Title of the work:** Role of Tidal Volume and PEEP on Lung Hyperinflation during Severe Respiratory Failure
Name of the conference: American Thoracic Society 99th International Conference ATS 2003
City of event: Seattle, Washington, United States of America
Date of event: 16/05/2003
End date: 21/05/2003
Organising entity: American Thoracic Society **Type of entity:** Associations and Groups
City organizing entity: Nueva York, United States of America
Guillermo Buggedo; C Romero; Alejandro Bruhn; Gonzalo Rojas; Juan Carlos Tapia; G Hernandez; Luis Castillo.
- 88** **Title of the work:** Computer System for Digitalization of Analog Gamma Cameras: An Upgrade
Name of the conference: 8th Congress of the World Federation of Nuclear Medicine & Biology
City of event: Santiago, Chile
Date of event: 29/09/2002
End date: 04/10/2002
Organising entity: World Federation of Nuclear Medicine & Biology
City organizing entity: Viena, Austria
Gonzalo Rojas; Juan Carlos Quintana; Enrique Olea; H Araya; Jorge Jer.
- 89** **Title of the work:** PEEP Levels 10 to 20 cmH2O Improve Alveolar Recruitment During Low Tidal Volume Ventilation in ARDS Patients
Name of the conference: American Thoracic Society 98th International Conference ATS 2002
City of event: Atlanta, United States of America
Date of event: 17/05/2002
End date: 22/05/2002
Organising entity: American Thoracic Society **Type of entity:** Associations and Groups



City organizing entity: Nueva York, United States of America

Guillermo Bugedo; Alejandro Bruhn; Gonzalo Rojas; P Zuñiga; JC Tapia; G Hernandez; Luis Castillo.

- 90** **Title of the work:** High PEEP Levels Produce Overdistension in Patients with Acute Respiratory Distress Syndrome
Name of the conference: XIX Chilean Congress of Intensive Medicine
City of event: Pucon, Chile
Date of event: 31/10/2001
End date: 03/11/2001
Organising entity: Sociedad Chilena de Medicina Intensiva **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Guillermo Bugedo; Alejandro Bruhn; Gonzalo Rojas; P Zuñiga; Juan Carlos Tapia; G Hernandez; Luis Castillo.
- 91** **Title of the work:** Lung Computed Tomography during a Lung Recruitment Maneuver in Patients with Acute Respiratory Failure. Mechanisms and clinical usefulness
Name of the conference: I International Symposium on Intensive Care and Emergency Medicine for Latin America
City of event: Sao Paulo, Brazil
Date of event: 26/06/2001
End date: 29/06/2001
Guillermo Bugedo; Alejandro Bruhn; G Hernandez; Gonzalo Rojas; C Varela; Juan Carlos Tapia; Luis Castillo.
- 92** **Title of the work:** Lung Computed Tomography During an Alveolar Recruitment Maneuver Gives Morphologic and Functional Dynamic Information on Patients with Acute Respiratory Failure
Name of the conference: XVIII Chilean Congress of Intensive Medicine
City of event: Puyehue, Chile
Date of event: 01/11/2000
End date: 04/11/2000
Organising entity: Sociedad Chilena de Medicina Intensiva
City organizing entity: Santiago, Chile
Guillermo Bugedo; Alejandro Bruhn; C Varela; Juan Carlos Tapia; G Hernandez; Luis Castillo; Gonzalo Rojas.
- 93** **Title of the work:** Lung Recruitment Maneuvers Improve Oxygenation and Pulmonary Mechanics in Patients with Acute Respiratory Failure
Name of the conference: XVIII Chilean Congress of Intensive Medicine
City of event: Puyehue, Chile
Date of event: 01/11/2000
End date: 04/11/2000
Organising entity: Sociedad Chilena de Medicina Intensiva **Type of entity:** Associations and Groups
City organizing entity: Santiago, Chile
Guillermo Bugedo; Alejandro Bruhn; Juan Carlos Tapia; C Varela; G Hernandez; Luis Castillo; Gonzalo Rojas.
- 94** **Title of the work:** Presentation of the Chilean Association of Pattern Recognition, and General Description of the State of the Art of R&D of Pattern Recognition in Chile
Name of the conference: 1st Ibero-American Forum of Forms Recognition and Image Analysis
City of event: Barcelona, Spain



Date of event: 15/09/2000

End date: 15/09/2000

Gonzalo Rojas; Carlos Pon Soto; Leopoldo Bertossi.

- 95** **Title of the work:** A New Nuclear Medicine Acquisition and Image Processing System
Name of the conference: 21 International Congress of Radiology ICR 2000
City of event: Buenos Aires, Argentina
Date of event: 04/09/2000
End date: 08/09/2000
Organising entity: International Society for Radiology
Type of entity: Associations and Groups
City organizing entity: Reston, United States of America
Gonzalo Rojas; Sergio Astudillo; Juan Carlos Quintana; JG Jer.
- 96** **Title of the work:** Design and Development of an Information System for a Healthcare Management Organization. An upgrade
Name of the conference: Toward the Electronic Health Record in Latin America and Caribbean PEP '99
City of event: Rio de Janeiro, Brazil
Date of event: 27/03/1999
End date: 31/03/1999
Organising entity: Pan American Health Organization
Type of entity: State agency
City organizing entity: Washington, United States of America
Gonzalo Rojas.
- 97** **Title of the work:** Image Fractal Compression and Other Compression Methods. Description, Comparison and Practical Applications
Name of the conference: Fourth Ibero-American Symposium of Pattern Recognition SIARP '99
City of event: La Habana, Cuba
Date of event: 22/03/1999
End date: 27/03/1999
Gonzalo Rojas; Ulrich Raff.
- 98** **Title of the work:** Design and Development of an Information System for a Healthcare Management Organization
Name of the conference: IV Argentinean Congress of Computer Science CACIC '98
City of event: Neuquen, Argentina
Date of event: 26/10/1998
End date: 30/10/1998
Organising entity: Sociedad Argentina de Ciencias de la Computacion
Type of entity: Associations and Groups
City organizing entity: Buenos Aires, Argentina
Gonzalo Rojas.
- 99** **Title of the work:** Parkinson Disease Characterization Method Using Nuclear Magnetic Resonance Images: Preliminary results
Name of the conference: X International Symposium in Informatics Application Infonor '97
City of event: Antofagasta, Chile
Date of event: 27/10/1997
End date: 31/10/1997
Organising entity: Universidad de Atacama
Type of entity: University
City organizing entity: Antofagasta, Chile



Gonzalo Rojas; Michael Hutchinson; Ulrich Raff.

- 100 Title of the work:** Operator independent Quantitation of total T2 lesion load in multiple sclerosis by MR imaging
Name of the conference: XI International Symposium and Exhibition of Computer Assisted Radiology CAR '97
City of event: Berlin, Germany
Date of event: 25/06/1997
End date: 28/06/1997
Organising entity: Society for Computer Applications **Type of entity:** Associations and Groups in Radiology
Ulrich Raff; Gonzalo Rojas; Patricio Vargas; Marcia Melendez; Isidro Huete; Jack Simon.
- 101 Title of the work:** Method to Quantify Multiple Sclerosis Lesions Using Nuclear Magnetic Resonance Images
Name of the conference: IX International Symposium in Informatics Application Infonor '96
City of event: Antofagasta, Chile
Date of event: 18/11/1996
End date: 22/11/1996
Organising entity: Universidad de Atacama **Type of entity:** University
City organizing entity: Antofagasta, Chile
Gonzalo Rojas; Ulrich Raff; Patricio Vargas; Marcia Melendez; Jack Simon; AL Scherzinger.
- 102 Title of the work:** Operator Independent Quantitation of Total Volume of Multiple Sclerosis Lesions Using MR Images
Name of the conference: 51 Chilean Congress of Neurology, Psychiatry, and Neurosurgery
City of event: Viña del Mar, Chile
Date of event: 07/11/1996
End date: 09/11/1996
Organising entity: SONEPSYN
City organizing entity: Santiago, Chile
Ulrich Raff; Gonzalo Rojas; Patricio Vargas; Jack Simon; Isidro Huete. En: Revista Chilena de Neuro-Psiquiatría. 34 - Suppl 1, pp. 155. 1996.
- 103 Title of the work:** Neural Networks and Vectorial Spaces in the diagnosis of Idiopathic Pulmonary Fibrosis using High- Resolution Computer Tomography Images
Name of the conference: X Southern Workshop in Solid State Physics
City of event: Concepcion, Chile
Date of event: 23/04/1996
End date: 27/04/1996
Marcia Melendez; Gonzalo Rojas; Patricio Vargas; Ulrich Raff; J Newell.



R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 **Committee title:** SIPAIM 2022 Conference (Scientific Committee)
Affiliation entity: SIPAIM Foundation
City affiliation entity: Valparaiso, Chile
Start-End date: 09/11/2022 - 11/11/2022
- 2 **Committee title:** International Consortium for Epilepsy and Resting-State fMRI (ICE rs-fMRI)
Primary (UNESCO code): 320111 - Radiology
Secondary (UNESCO code): 320507 - Neurology
City affiliation entity: Quebec, Canada
End date: 30/06/2013
- 3 **Committee title:** Editorial Board Member of Brain Imaging and Stimulation (Frontiers in Human Neuroscience)
Primary (UNESCO code): 249000 - Neurosciences; 320507 - Neurology
Affiliation entity: Frontiers (editorial) **Type of entity:** Foundation
City affiliation entity: Lausanne, Switzerland
Start date: 19/07/2023
- 4 **Committee title:** Neuro Bureau
Primary (UNESCO code): 320111 - Radiology
Secondary (UNESCO code): 320507 - Neurology
City affiliation entity: United States of America

Organization of R&D activities

Title of the activity: First Symposium of Resting-State fMRI Application to Epilepsy
Type of activity: Simposio **Geographical area:** Nivel Internacional
Convening entity: International Consortium for Epilepsy and Resting-State fMRI (ICE rs-fMRI) **Type of entity:** Consorcio de Investigadores
City convening entity: Beijing, China
Start-End date: 15/06/2012 - 15/06/2012 **Duration:** 1 day

National and international forums and committees

- 1 **Name of the forum:** Comité de Neurooncología
Organising entity: Clinica las Condes **Type of entity:** Healthcare Institutions
City organizing entity: Santiago, Chile
Start date: 01/12/2022
- 2 **Name of the forum:** Iniciativa Cerebro Latinoamericana (LATBrain)
Organising entity: Latin American Neuroscience Societies **Type of entity:** -
City organizing entity: Montevideo, Uruguay



Start date: 01/03/2021

- 3** **Name of the forum:** Centro Avanzado de Epilepsias
Organising entity: Clinica las Condes **Type of entity:** Healthcare Institutions
City organizing entity: Santiago, Chile
Start date: 03/08/2009

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Joint Unit FISABIO & Prince Felipe Research Center (CIPF) **Type of entity:** R&D Centre
Faculty, institute or centre: Joint Unit FISABIO & Prince Felipe Research Center (CIPF)
City of entity: Valencia, Valencian Community, Spain
Start-End date: 03/02/2020 - 14/02/2020
Goals of the stay: Doctorate
Provable tasks: Programming of brain volumetry statistical analysis software. T2 mapping processing for Wilson disease patients.
- 2** **Entity:** Joint Unit FISABIO & Prince Felipe Research Center (CIPF)
City of entity: Valencia, Valencian Community, Spain
Start-End date: 03/06/2019 - 21/06/2019
Goals of the stay: Doctorate
Provable tasks: Design of brain volumetry statistical analysis software
- 3** **Entity:** Joint Unit FISABIO & Prince Felipe Research Center (CIPF) **Type of entity:** R&D Centre
Faculty, institute or centre: Joint Unit FISABIO & Prince Felipe Research Center (CIPF)
City of entity: Valencia, Valencian Community, Spain
Start-End date: 11/02/2019 - 09/03/2019
Goals of the stay: Doctorate
Provable tasks: Processing of MRI brain database (freesurfer)
- 4** **Entity:** NYU Child Study Center **Type of entity:** University Research Institute
Faculty, institute or centre: F. Xavier Castellanos Laboratory
City of entity: New York, United States of America
Start-End date: 11/06/2012 - 17/06/2012 **Duration:** 6 days
Goals of the stay: Guest
Provable tasks: Resting State Image Processing



Other types of collaboration with researchers or technologists

Type of relationship: Joint project networks

Name principal investigator (PI, Co-PI...): Konrad Wagstyl

Description of the collaboration: Multi-centre Epilepsy Lesion Detection (MELD) Project: Automated detection of focal epilepsies.

City: London, United Kingdom

Participating entity/entities:

Wellcome Centre for Human Neuroimaging, UCL

Type of entity: University

City participating entity: London, United Kingdom

Start date: 22/12/2022

Scientific societies and professional associations

1 Name of the society: LABMAN (Latinoamerican Chapter of Organization for Human Brain Mapping)

Affiliation entity: Organizaion for Human Brain Mapping (OHBM) **Type of entity:** Associations and Groups

City affiliation entity: Minneapolis, United States of America

Identify key words: Neuroimage

Start date: 01/06/2014

2 Name of the society: Organization for Human Brain Mapping (OHBM)

City affiliation entity: Minneapolis, United States of America

Identify key words: Neurophysiology; Cognitive neuroscience; Neuroimage; Cognitive neuroscience; Neuronal control

Start date: 10/06/2012

3 Name of the society: Chilean Society of Neurology, Psychiatry and Neurosurgery (SONEPSYN)

City affiliation entity: Santiago, Chile

Identify key words: Neurophysiology; Clinical medicine; Health; Cognitive neuroscience; Neuroimage; Cognitive neuroscience

Editorial councils

Name of the editorial council: Editor for Frontiers in Human Neuroscience Journal

Affiliation entity: Frontiers in Human Neuroscience Journal **Type of entity:** Foundation

City affiliation entity: LausanneLausanne, Switzerland

Start date: 17/07/2023



Prizes, mentions and distinctions

- 1** **Description:** Prize Best research work Endocrinology.
Awarding entity: Sociedad Chilena de Endocrinología y Diabetes
City awarding entity: Puerto Varas, Chile
Conferral date: 19/10/2024

- 2** **Description:** Prize Best research Poster: M. Gálvez, G. Rojas, J. Cordovez, C. Pérez, A Cerda, "Lie detector using Functional Magnetic Resonance", Proc. Chilean Congress of Radiology 2009, Viña del Mar, Chile
Awarding entity: Chilean Society of Radiology **Type of entity:** Associations and Groups
City awarding entity: Santiago, Chile
Conferral date: 30/10/2009

- 3** **Description:** Prize Best research work: Rojas Costa GM, Cordovez Maira JA, Gálvez Moya MO, Asahi Kodama T, Bravo Castro EF, "Obtaining Talairach coordinates from visual area cortical maps with functional MRI (fMRI)", Proc. Chilean Congress of Radiology 2007, Viña del Mar, Chile
Awarding entity: Chilean Society of Radiology **Type of entity:** Associations and Groups
City awarding entity: Santiago, Chile
Conferral date: 01/11/2007

- 4** **Description:** Prize Best research Poster: R Rosales, G Rojas, M Gálvez, J Cordovez, T Asahi, L Badilla, "Cortical mapping of receptive and expressive language areas using functional MRI with BOLD technique", Proc. Chilean Congress of Radiology 2006, Viña del Mar, Chile
Awarding entity: Chilean Society of Radiology **Type of entity:** Associations and Groups
City awarding entity: Santiago, Chile
Conferral date: 13/10/2006

Other merits of research activity