Professor THAIS RUSSOMANO MD MSc PhD

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An organized, detail-oriented, and conscientious self-starter, with more than 25 years of experience in Space Life Science, Aerospace Medicine, Biomedical Engineering and Telehealth. An effective leader, skilled in motivating and enlisting the support of colleagues and team members in alignment with project and organizational goals, demonstrated by the establishment and coordination of the Microgravity Centre, PUCRS, Brazil, an internationally recognized and pioneer Space Life Sciences Research Centre in Latin America. Able to strategize and prioritize effectively to accomplish multiple tasks, stay calm under pressure, and work successfully in national and international scenarios. Understanding of the importance of academic/commercial collaboration and partnerships in developing innovative products and processes for the market. Skilled in academic course creation and delivery at community, graduate and postgraduate levels.

CURRENT POSITIONS HELD

(1) Senior Lecturer, CHAPS, Faculty of Life Sciences & Medicine, King's College London
(2) International Relations Director, HuSCO, Human Spaceflight Capitalization Office, London, UK
(3) Founder & Director, InnovaSpace Ltd, UK
(4) Co-Founder, Director & Chief Medical Officer, International Space Medicine Consortium Inc., USA
(5) Guest lecturer ViCCA Master's Course, Alto University, Finland
(6) Consultant Skolkovo Foundation, Moscow, Russia
(7) Member of the iB Hubs Global Mentor Community, eHealth projects, India
(8) Brazilian representative for the ISO/TC 20/SC 14/WG 6, Space systems and operations (Manned space flight)
(9) Member of the Mars One Mission Advisory Board, Holland

SUMMARY

- 25+ years experience in Aerospace Medicine, Human Physiology, Biomedical Engineering, Telemedicine & eHealth
- Founded & Coordinated for 18 years the Microgravity Centre (MicroG), PUCRS, Brazil
- Special interest & active participation in research/committees into Manned Space Flight and Space Tourism
- Development of Microgravity/Hypogravity & Hypergravity simulation research projects
- Development of an international MicroG network of Space focused research teams
- Educational Space lectures for the Brazilian Space Agency, Universities, Schools and general public
- Biomedical research & development, project coordination, management & liaison
- Inter-, multi-, transdisciplinary experience in developing and conducting national & international eHealth projects
- Invited participant, Rockefeller Foundation sponsored National eHealth Policies conference, Bellagio 2008
- Co-founder/Co-Coordinator of the Student Committee of the International Society for Telemedicine & eHealth
- Peer reviewer for 5 scientific journals in the areas of Telemedicine, eHealth and Aerospace Sciences
- Multidisciplinary teaching at both undergraduate & postgraduate level
- Extensive supervision of PhD & MSc thesis and BSc final projects at PUCRS & King's College London
- Numerous publications in peer reviewed journals and Chapters in Books
- Publication of 6 books in the areas of Astronomy, Space Life Sciences, & Aerospace Biomedical Engineering
- Holder of 7 patents: Products and processes related to Space Life Sciences and Aerospace Biomedical Engineering

Research areas include: telemedicine and eHealth projects; microgravity, hypogravity and hypergravity simulations; parabolic flight campaigns with the European Space Agency; hyperbaric and hypobaric chamber studies; tests in human centrifuges, Barany's chair, flight simulators, lower body positive pressure and negative pressure boxes, and positive pressure chambers, among others.

EDUCATIONAL BACKGROUND

2006 - 2007	Post-Doctoral in Space Life Science, King's College London, England, UK
2000 - 2009	Visiting Research Fellow - Department of Aerospace Medicine and Human Applied Physiology, King's College London, UK
1994 - 1998	PhD in Respiratory Space Physiology, King's College London, England, UK
1991 - 1995	MD in Emergency Rooms, Intensive Care Units and Ambulance Services, in the Porto Alegre region
1989 - 1991	Master's Degree Program in Aerospace Medicine (GPA = 3.94/4.0), Wright State University, Ohio, USA
1985 - 1989	Internal Medicine Residency Program, Clinical Hospital of Porto Alegre, RS, Brazil. Chief Resident (1988) and Senior Resident (1989) in Internal Medicine
1980 - 1985	School of Medicine of the Federal University of Pelotas, RS, Brazil

RESEARCH/TEACHING & EMPLOYMENT POSITIONS

2017 -	Guest Lecturer at Deggendorf Institute of Technology, Germany, delivering eHealth modules
2016 -	Senior Advisor, HuSCO, Human Spaceflight Capitalization Office, London, UK
2015 -	Co-Founder, Corporate Director & Chief Medical Officer, International Space Medicine Consortium Inc. (www.ISMCInc.com)
2013 -	Guest Lecturer at Alto University, Finland delivering Space & Design modules
2009 - 2009	Consultant - Wyle Laboratories GmbH, Cologne, Germany - Earlobe Arterialized Blood Collector Study
2001 -	Supervisor - MSc Dissertations - Biomedical Engineering Master's Degree Program, School of Engineering, PUCRS, Porto Alegre, RS, Brazil
2009 -	Visiting Senior Lecturer, CHAPS, Faculty of Life Sciences & Medicine, King's College, London
2000 - 2009	Visiting Research Fellow - Department of Aerospace Medicine and Human Applied Physiology, King's College London
1999 -	Coordinator of the Microgravity Centre, PUCRS, Porto Alegre, RS, Brazil
1997 -	Guest Scientist - Institute of Aerospace Medicine, German Space Agency – DLR, Cologne, Germany
1998 -	Professor - Biomedical Engineering Master's Degree Program – School of Electrical Engineering, PUCRS, Porto Alegre, RS, Brazil
1998 -	Professor - Institute of Aeronautical Sciences, PUCRS, Porto Alegre, RS, Brazil
1998 -	Professor - Department of Internal Medicine, School of Medicine, PUCRS, Porto Alegre, RS, Brazil
1993 - 1998	Assistant Professor - Department of Internal Medicine, School of Medicine, PUCRS, Porto Alegre, RS, Brazil
1990 - 1993	Associate Researcher - Institute of Cardiology of Rio Grande do Sul, Porto Alegre, RS, Brazil

PRINCIPAL PROJECTS DEVELOPED UNDER MY COORDINATION

Tele-transmission of surgical procedures
Tele-education via international video conferences
Tele-medical assistance to remote areas including projects in: Tele-ECG, Tele-dermatology, Tele-pathology, Tele-odontology, Tele-toxicology, Tele-nutrition, Tele-pharmacy, Tele-physiotherapy, Tele-psychiatry and Tele-radiology
eHealth for primary care attention
eHealth for Indian tribes in the Amazon, Brazil
Development and Validation of the first all-Brazilian Heart Defibrillator
Development and Validation of a Normobaric Hypoxia Chamber
Development and Validation of Lower Body Negative Pressure Box and Lower Body Positive Pressure Box
Development and Validation of a Human Powered Small Centrifuge
Development of small centrifuge for the study of effects of hyperG on plants
Development and Validation of a Tilt Table for Microgravity Simulation
Development of an Earlobe Blood Collector for use in Microgravity
Evaluation of Cardiopulmonary Resuscitation Procedures in Microgravity (Parabolic Flight) and Hypogravity simulations
Development and Validation of a Clinostat 3D for the Study of Cells in Microgravity Simulation
Development and Validation of a Barany's Chair for the Study of the Vestibular System
Development of small hypobaric chamber to study the effects of pressure changes on medication
Development and validation of individual portable dark chambers

PRESENTATION/PUBLICATION & EDUCATIONAL WORKS

Participation in 250+ scientific events with 300+ scientific papers presented, as well scientific and educational works in 30+ countries:

Argentina, Austria, Bosnia & Herzogovina, Brazil, Canada, China, Croatia, Czech Republic, England, Finland, France, Germany, Greece, India, Israel, Italy, Lithuania, Luxembourg, Mexico, The Netherlands, Norway, Philippines, Poland, Portugal, Romania, Russia, Scotland, Singapore, Slovenia, South Africa, Spain, Switzerland, Thailand, and United States of America.

SELECTION OF PUBLICATIONS IN SCIENTIFIC JOURNALS

MACKAILL, CHRISTINA; SPONCHIADO, GREGORI; LEITE, ANA K.; DIAS, PAOLA; DA ROSA, MICHELE; BROWN, ELLIOT J.; DE LIMA, JULIO C.M.; REHNBERG, LUCAS; RUSSOMANO, THAIS. A new method for the performance of external chest compressions during hypogravity simulation. LIFE SCIENCES IN SPACE RESEARCH (PRINT), v. 18, p. 72-79, 2018.

NUNES, A. C. P; SANTOS, GLÊISON A. DOS; SANTOS, MARLISE A. DOS; **RUSSOMANO, T**; SANTOS, OSMARINO P. DOS; VALENTE, BRÍGIDA M. DOS REIS TEIXEIRA; RESENDE, MARCOS D. V. DE. Application of hypergravity in eucalyptus and corymbia seeds. Ciência Rural, v. 48, p. 1-7, 2018.

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HINKELBEIN, J.; **RUSSOMANO, T.;** HINKELBEIN, F.; KOMOROWSKI, M. Cardiac arrest during space missions: specificities and challenges. Trends in Anaesthesia and Critical Care, v. 19, p. 6-12, 2018.

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SUNDARESAN, A.; MEHTA, S.K.; SCHLEGEL, T.T.; **RUSSOMANO, T;** PIERSON, D.L.; MANN, V.; MANSOOR, E.; OLAMIGOKE, L.; OKORO, E. Placental growth factor levels in populations with high versus low risk for cardiovascular disease and stressful physiological environments such as microgravity: a pilot study. Microgravity, Science and Technology (Print), v. 29, p. 145-149, 2017.

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MARTINELLI, LEONARDO K, **RUSSOMANO, T**., SANTOS, M. A., FALCÃO, FELIPE P, BAUER, MOISES, AMANDA MACHADO, SUNDARESAN, ALAMELU. The effect of microgravity immune cell viability and proliferation. IEEE Engineering in Medicine and Biology Magazine. , v.1, p.85 - 90, 2009.

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RUSSOMANO, T.; RIZZATTI, Mara R; AZEVEDO, Dario F G de; COELHO, Rodrigo P; SCOLARI, Diogo; SOUZA, Daniel de; PRÁVELEDA, Paula. Effects of Simulated Hypergravity on Biomedical Experiments. IEEE Engineering in Medicine and Biology Magazine, England, UK, v. May/Jun, p. 66-71, 2007.

RUSSOMANO, T; EVETTS, SIMON; CASTRO, JOÃO; SANTOS, MARLISE A DOS; GAVILLON, JORGE; AZEVEDO, DARIO F G DE; WHITTLE, JOHN; COATS, EDWARD; ERNSTING, JOHN. A Device for Sampling Arterialized Earlobe Blood in Austere Environments. Aviation, Space, and Environmental Medicine, Alexandria, Virginia, EUA, v. 77, n. 4, p. 453-455, 2006.

EVETTS, SIMON; EVETTS, LISA; **RUSSOMANO, T**.; CASTRO, JOAO; ERNSTING, John. Basic Life Support In Microgravity: Evaluation of a Novel Method During Parabolic Flight. Aviation, Space, and Environmental Medicine, Alexandria, VA, Estados Unidos, v. 76, n. 5, p. 506-510, 2005.

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RUSSOMANO, T; CASTRO, Joao de C. Fisiologia Aeroespacial - Conhecimentos Essenciais para Voar com Segurança. 1. ed. Porto Alegre: EdiPuc, 2012. v. 1. 186p.

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RUSSOMANO, T; Dalmarco, G; Falcao, Felipe P. Synthesis Lectures on Biomedical Engineering #18 - The Effects of Hypergravity and Microgravity on Biomedical Experiment (Paperback). 1. ed. Connecticut: Morgan & Claypool Publishers, 2008. v. 1. 70 p.

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RUSSOMANO, T. Mosaico. 1. ed. Pelotas: Editora Jornal Diario Popular, 2002. v. 1. 238 p.

RUSSOMANO, T.; Bauermann, B.. O ABC da vida no espaço. (*The ABC of Life in Space*) 1. ed. Porto Alegre: Editora Alcance, 1992. v. 1. 82 p.

RUSSOMANO, T.; Chatkin, M.; Chatkin, A.. Três Crianças Falam de Astronomia. (*Three Children Talk About Astronomy*) 1. ed. Rio de Janeiro: Editora Freitas Bastos S.A., 1976. v. 1. 43 p.

CHAPTERS in BOOKS

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(2) RUSSOMANO T and DFG Azevedo. Equipamento para incubação de peixes e outros animais e processo de cultivo de peixes e outros animais (*Equipment for incubation of fish and other animals and process of cultivation of fish and other animals*)
Patent 020080095366 8th July 2008; PI0802399-9 8th July 2008; PCT/BR2009/000201 8th July 2009; US Patent US13/003,061 7th Jan 2011; European Patent EP09793727.0 7th Jan 2011

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(6) RUSSOMANO T, JL Gavillon, M Vian, CL Schossler, CRV Dos Santos, DFG Azevedo and ELP Louzade. Coletor de sangue arterializado do lóbulo da orelha (*Blood collector device for arterialized blood from the earlobe*). Patent PI0203602-9 30th August 2002

(7) RUSSOMANO T, EC Grigolo, DFG Azevedo, RP Coelho, JC Castro. Disposição construtiva em câmara escura individual e portátil (ceip). (*Development of individual portable dark chambers*) Patent MU8200234-7 31st January 2002

PROFESSIONAL ASSOCIATIONS/COMMITTEES – Past & Present

Co-founder/Co-coordinator Student Committee of the International Society for Telemedicine & eHealth
Aerospace Medical Association, USA
Associacion Iberoamericana de Medicina Aeroespacial, Mexico.
Brazilian Aerospace Society, Scientific Director, Brazil
Honorary Member Slovenian Aerospace Medical Association, Slovenia
IAA – International Academy of Astronautics, Space Life Sciences Committee
International Academy of Aviation and Space Medicine, Europe
Advisory Board of the Envihab, German Aerospace Centre
International Space Committee ISO/TC 20/SC 14/WG 6 - Space systems - Man- Life activity support systems and equipment integration in space flight.
Honorary member of the Philippine Academy of Aerospace Medicine & Biomedical Engineering
Former member of the IAA – Medical Guidelines for crew members - Committee
Former member of the IAA - Study Group in Space Tourism
Former member of the Educational and Training Committee of the Aerospace Medical Association, USA
Former member of the Educational Committee of the International Astronautical Federation
Former member of the International Astronautical Federation's Committee on
the Contribution of Space Related Research to Advances in the Field of Medicine

MEMBER OF INTERNATIONAL WORKING GROUPS

2013	International Academy of Astronautics (IAA), Commission 2 on Space Life Sciences
2013	International Academy of Astronautics (IAA), Space Life Sciences in the Exploration Era
2011	International Space Committee ISO/TC20/SC14/WG6, Space Systems – Man-Life Activity Support Systems and Equipment Integration in Space Flight
2011	International Academy of Astronautics (IAA), Medical Safety Guidelines for Space Crews Involved in Short-Duration Commercial Orbital Flight Operations
2010	Advisory Board of Envihab, German Aerospace Centre
2010	International Academy of Astronautics (IAA), Space Life Sciences Committee
2010	International Academy of Astronautics (IAA), Space Tourism Committee
2008	National eHealth Policies. Promoted by The World Health Organisation & The Rockefeller Foundation.
2008	Commission 2 - International Academy of Astronautics Study Group –eLearning in space life science
2006/2007	Medical Safety Guidelines for Passengers on Commercial Orbital Space Flights. Promoted by International Academy of Astronautics Study Group, Commission 2 – Life Sciences. 2006/2007
2005	Space Flight Issues in the 21st Century: Cardiovascular and Fluid Shift Issues. Bellagio, Italy. Promoted by The Rockefeller Foundation & The Mayo Clinic, USA

LANGUAGES

Portuguese	Fluent, native language
Spanish	Fluent in comprehension, speech, reading and writing

English	Fluent in comprehension, speech, reading and writing
French	Good comprehension, speak, read and write reasonably well

REFERENCES
Available upon request