

## Marius George Linguraru, DPhil MA MSc

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### SCIENCE and RESEARCH

- 2023-**      *Connor Family Professor and Endowed Chair in Research and Innovation.* Children's National Hospital, Washington, DC, USA.
- 2019-**      *Professor (with Tenure) of Radiology and Pediatrics.* George Washington University, School of Medicine and Health Sciences, Washington, DC, USA.
- 2011-**      *Principal Investigator – Founder and Director of the Precision Medical Imaging Group.* Children's National Hospital, Sheikh Zayed Institute for Pediatric Surgical Innovation, Washington, DC, USA.
- 2018-**      *Secondary Professor of Biomedical Engineering.* George Washington University, School of Engineering and Applied Science, Washington, DC, USA.
- 2023-**      *Senior Researcher (with Habilitation).* Polytechnic University of Madrid, International Doctoral School/Electronic Systems Engineering, Madrid, Spain.
- 2011-2023**      *Associate Investigator.* National Institutes of Health, Clinical Center, Radiology and Imaging Sciences, Bethesda, MD, USA.
- 2012-2019**      *Associate Professor of Radiology and Pediatrics.* George Washington University, School of Medicine and Health Sciences, Washington, DC, USA.
- 2007-2011**      *Staff Scientist.* National Institutes of Health, Clinical Center, Radiology and Imaging Sciences, Bethesda, MD, USA.
- 2004-2006**      *Research Fellow.* Harvard University, School of Engineering and Applied Sciences, Cambridge, MA, USA.
- 2003-2005**      *Expert Engineer.* French National Institute for Research in Computer Science and Applied Mathematics (INRIA), Asclepios Research Group, Sophia Antipolis, France.
- 1998-2004**      *Assistant Professor.* University of Sibiu, School of Engineering, Department of Computer Science and Automation, Sibiu, Romania.

### EXECUTIVE and LEADERSHIP

- 2023 -**      *Connor Family Professor and Endowed Chair in Research and Innovation.* Children's National Hospital, Washington, DC, USA.
- 2018-**      *Chief Innovation Officer and Co-Founder.* PediaMetrix Inc., North Potomac, MD, USA
- 2021-**      *Board of Directors.* Medical Image Computing and Computer Assisted Intervention (MICCAI) Society
- 2021-**      *Advisory Board.* mGeneRx Inc, Raleigh, NC, USA
- 2020-**      *Executive Committee.* Quantitative Imaging Network of the National Cancer Institute, National Institutes of Health, Bethesda, MD.
- 2019-**      *Board of Directors.* International Society of Medical Information Processing and Analysis (SIPAIM)
- 2024**      *Program Chair.* Medical Image Computing and Computer Assisted Intervention Conference, Marrakesh, Morocco.

- 2023** *Chair.* Inaugural Children's National Hospital – Virginia Tech Symposium on AI for Pediatric Healthcare and Rare Diseases, Washington, DC, USA.
- 2023-** *Research IT Steering Committee.* Children's National Hospital, Washington, DC, USA.
- 2015-2022** *Chair/Vice-Chair.* Technical Committee for Medical Imaging and Image Processing of IEEE Engineering in Medicine and Biology Society.
- 2018-2020** *Technical Directors Board Committee.* IEEE Signal Processing Society
- 2020-2021** *Chair.* COVID-19-20 CT Lung Lesion Segmentation Grand Challenge.
- 2016-2021** *Steering Committee.* IEEE International Symposium on Biomedical Imaging.
- 2020** *Co-General Chair.* International Symposium on Medical Information Processing and Analysis, Lima, Peru.
- 2019** *General Chair.* IEEE International Symposium in Biomedical Imaging, Venice, Italy.
- 2017-2019** *Leadership Council of Children' Research Institute Bioinformatics Unit.* Children's National Hospital, Washington, DC, USA.

## EDUCATION and CERTIFICATES

- 2021** *Bias Events and Incidents Certification.* Children's National Hospital, Washington, DC, USA.
- 2014-2016** *Leader Academy.* Children's National Hospital, Washington, DC, USA.
- 2013-2014** *Innovation and Product Development Certificate.* Clinical and Translational Science Institute at Children's National Hospital and George Washington Univ., Washington, DC, USA.
- 2004-2006** *Research Fellowship.* Harvard University, School of Engineering and Applied Sciences, Cambridge, MA, USA.
- 1999-2004** *DPhil (PhD) Engineering Science/Medical Image Analysis.* University of Oxford, Department of Engineering Science, Oxford, UK. Member of Keble College.
- 1997-1998** *MA British Cultural Studies - summa cum laude.* University of Sibiu, Department of British and American Studies, Sibiu, Romania.
- 1996-1997** *MSc Parallel and Distributed Processing Systems - summa cum laude.* University of Sibiu, Department of Computer Science and Automation, Sibiu, Romania.
- 1991-1996** *BSc Computer Science - summa cum laude.* University of Sibiu, Department of Computer Science and Automation, Sibiu, Romania.

## PROFFESIONAL EXPERTISE

- 2023** *Organizer.* First AFRICAI Summer School on AI for Medical Imaging in Africa, Marrakesh, Morocco.
- 2023** *Executive Committee.* IEEE International Symposium in Biomedical Imaging 2023, Cartagena, Colombia.
- 2019-** *External Reviewer.* European Science Foundation, Strasbourg, France.
- 2013-** *Reviewer.* Center for Scientific Review, National Inst. of Health, Bethesda, MD, USA.

- 2007-** *Expert Evaluator.* Directorate-General for Research, European Commission, Brussels, Belgium.
- 2020** *Executive Committee.* Medical Image Computing and Computer Assisted Intervention Conference 2020, Lima, Peru (virtual).
- 2017** *Expert Evaluator.* The Netherlands Organisation for Scientific Research, Utrecht, Netherlands.
- 2014-2015** *Independent Reviewer.* Communications Networks, Content and Technology Directorate-General, European Commission, Luxembourg, Luxembourg.
- 2013** *Scientific Expert.* National Research Agency, Paris, France.
- 2011-2012** *Reviewer.* Ontario Institute for Cancer Research, Toronto, ON, Canada.
- 2004-2006** *Expert Consultant.* Ministry of Education and Research, Bucharest, Romania.
- 2001-2002** *Independent Consultant.* SIEMENS Molecular Imaging, Oxford, UK.
- 1996-1997** *Head of Statistics-Computing Office.* University of Sibiu, Sibiu, Romania.
- 1996-1997** *Organizer and Coordinator.* Social and Cultural Activities, The Bureau for Central and Eastern Europe, Sibiu, Romania.

## **HONORS and AWARDS**

- 2018-** *Senior Member* of Institute of Electrical and Electronics Engineers (IEEE).
- 2023** *First Prize* at Pediatric Brain Tumor Segmentation Challenge (Brats-PEDS) in conjunction with MICCAI 2023, Vancouver, BC, Canada.
- 2023** *Best Poster Award* at the Children's Tumor Foundation NF Meetings 2023, Scottsdale, AZ, USA (mentee Abhijeet Parida).
- 2023** *Winner in Basic and Translational Research Excellence* at the Research, Education and Innovation Week 2023, Children's National Hospital, Washington, DC, USA (mentee Pooneh Roshanitabrizi).
- 2022** *Best Presentation Award* at the World Congress of Cardiology 2022, Rio de Janeiro, Brazil (mentee Kelsey Brown).
- 2022** *Finalist in Basic and Translational Research Excellence* at the Research, Education and Innovation Week 2022, Children's National Hospital, Washington, DC, USA (mentees Pooneh Roshanitabrizi and Zhifan Jiang).
- 2016-2019** *Distinguished Lecturer* of IEEE Engineering in Medicine and Biology Society.
- 2019** *Certificate of Excellence in Basic and Translational Research* at the Research and Education Week 2019, Children's National Hospital, Washington, DC, USA.
- 2018** *Runner Up and Finalist for Editors Pick* in STAT Madness 2018, the contest to find the best innovations in science and medicine organized by STAT News.
- 2018** *NVIDIA Competition Award* at the Medical Image Computing and Computer-Assisted Intervention – MICCAI 2018, Granada, Spain (mentee Antonio Porras).

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| <b>2018</b>      | <i>Best Abstract Award - Second Place</i> at the Annual Joseph E. Robert, Jr. Academic Day Symposium 2018, Children's National Hospital, Washington, DC, USA.                                   |
| <b>2018</b>      | <i>Third Place Award</i> Student Innovators Program 2018, Children's National Hospital, Washington, DC (mentee Philip Taylor).  |
| <b>2017</b>      | <i>First Place Abstract</i> at Annual Joseph E. Robert, Jr. Academic Day Symposium 2017, Children's National Hospital, Washington, DC, USA.   |
| <b>2017</b>      | <i>Finalist for Young Scientist Award</i> at Medical Image Computing and Computer-Assisted Intervention 2017, Quebec City, QC, Canada (mentee Antonio Porras).                                  |
| <b>2017</b>      | <i>Best Paper Award – 2<sup>nd</sup> Place</i> at Medical Image Computing and Computer-Assisted Intervention Workshop on Clinical Image-based Procedures 2017, Quebec City, QC, Canada.         |
| <b>2017</b>      | <i>Second Place Award</i> Student Innovators Program 2017, Children's National Hospital, Washington, DC (mentee James Jared)  |
| <b>2017</b>      | <i>Honorable Mention Award</i> Student Innovators Program 2017, Children's National Hospital, Washington, DC (mentee Teerit Vongkorit)  |
| <b>2016</b>      | <i>Best Paper Award</i> at Medical Image Computing and Computer-Assisted Intervention Workshop on Clinical Image-based Procedures 2016, Athens, Greece.   |
| <b>2016</b>      | <i>Best Abstract Award</i> at Annual Joseph E. Robert, Jr. Academic Day Symposium 2016, Children's National Hospital, Washington, DC, USA.  |
| <b>2015</b>      | <i>Finalist for Best Paper Award</i> by Medical Image Analysis journal.   |
| <b>2015</b>      | <i>Best Demo Award</i> at Medical Image Computing and Computer-Assisted Intervention Workshop on Interactive Medical Image Computing 2015, Munich, Germany.                                     |
| <b>2015</b>      | <i>Outstanding Clinical Poster</i> at Children's Tumor Foundation NF Forum 2015, Scottsdale, AZ, USA.   |
| <b>2015</b>      | <i>1st Place Award</i> by the Commissioned Officers Association of the United States Public Health Service at Intel ISEF International Competition 2015, Pittsburgh PA, USA (mentee Abia Khan). |
| <b>2014</b>      | <i>Finalist for Young Scientist Award</i> at Medical Image Computing and Computer-Assisted Intervention 2014, Cambridge, MA, USA (mentee Juan Cerrolaza).                                       |
| <b>2014</b>      | <i>Best Paper Award</i> at Medical Image Computing and Computer-Assisted Intervention Workshop on Clinical Image-based Procedures 2014, Cambridge, MA, USA.                                     |
| <b>2014</b>      | <i>Honorable Mention in Basic and Translational Research</i> at the Research and Education Week 2014, Children's National Hospital, Washington, DC, USA.  |
| <b>2012</b>      | <i>Best Paper Award – 2<sup>nd</sup> Place</i> at Medical Image Computing and Computer-Assisted Intervention Workshop on Clinical Image-based Procedures 2012, Nice, France.                    |
| <b>2008</b>      | <i>Science Award for Outstanding Scientific Research</i> at Workshop on Vasculopathy in Sickle Cell Disease, National Institutes of Health, Bethesda, MD, USA.                                  |
| <b>1999-2002</b> | <i>Scatcherd European Scholarship</i> , University of Oxford, Oxford, UK..  |
| <b>2002</b>      | <i>Graduate Academic Fund Award</i> , Keble College, University of Oxford, Oxford, UK.  |

- 1999-2002** *Overseas Research Scholarship*, Committee of Vice-Chancellors and Principals of UK Universities.
- 2000** *Runner Up Prize for Excellence in Engineering by a Younger Engineer of Britain*, Houses of Parliament, London, UK.
- 2002** *Graduate Academic Fund Award*, Keble College, University of Oxford, Oxford, UK.

### MENTORSHIP and TEACHING

I have mentored over 150 high school, college and graduate/medical students, research and clinical fellows, and junior faculty and clinician-scientists. They are a diverse group of award-winning professionals with successful research and clinical careers at institutions such as Duke University, Princeton University, University of Oxford, Imperial College London, IBM, Google, Siemens, and Amazon. Others have started their own successful businesses. See also the international mentorship programs that I have led under Professional and Community Services. Additional teaching activities are presented below.

- 2018-** *Founder and Chair of Mentorship and Career Development Program*. Medical Image Computing and Computer Assisted Intervention (MICCAI) Society
- 2020-** *Mentor*. Capstone Program, George Washington University, School of Engineering and Applied Science, Washington, DC, USA.
- 2012-** *Lecturer*. Summer Student Innovators Program, Children's National Hospital, Washington, DC, USA.
- 2013-2017** *Guest Lecturer*. University of Maryland College Park, School of Engineering, College Park, MD, USA.
- 2003-2005** *Lecturer*. University of Nice Sophia-Antipolis, Department of Physics, Nice, France.
- 1998-2004** *Assistant Professor*. University of Sibiu, Department of Computer Science and Automation, Sibiu, Romania.
- 2000-2002** *Departmental Demonstrator*. University of Oxford, Department of Engineering Science, Oxford, UK.

### PROFESSIONAL and COMMUNITY SERVICE

#### Organizing, Chairing and Editorial Service (selected):

- 2018-** *Founder and Chair of the MICCAI Mentorship and Career Development Program*. Medical Image Computing and Computer Assisted Intervention Society.
- 2023-** *Lead Organizer*. Pediatric Brain Tumor Segmentation Challenge (Brats-PEDS) in conjunction with MICCAI Conferences.
- 2024-** *Co-Chair*. Low Field Pediatric Brain Magnetic Resonance Image Segmentation and Quality Assurance Challenge in conjunction with MICCAI Conferences.
- 2022-** *Co-Chair*. Medical Image Learning with Limited and Noisy Data Workshop in conjunction with MICCAI Conferences.
- 2018-2023** *Editor* of Biomedical Imaging and Image Processing Theme, IEEE Engineering in Medicine and Biology Conferences.
- 2024** *Plenary Chair*. IEEE International Symposium in Biomedical Imaging, Athens, Greece.
- 2023** *Special Advisor*. IEEE International Symposium in Biomedical Imaging, Cartagena, Colombia.

- 2023**      *Young Investigators and Early Career Development Program Chair, Medical Image Computing and Computer Assisted Intervention, Vancouver, Canada.*
- 2014-2023**      *Associate Editor of IEEE Transactions on Biomedical Engineering.*
- 2014-2023**      *Associate Editor of SPIE Journal of Medical Imaging.*
- 2012-2022**      *Founder and Co-Chair. Clinical Image-based Procedures Workshop in conjunction with MICCAI, various locations.*
- 2022**      *Young Investigators and Early Career Development Program Chair, Medical Image Computing and Computer Assisted Intervention, Singapore, Singapore.*
- 2021**      *Young Investigators and Early Career Development Program Chair, Medical Image Computing and Computer Assisted Intervention, Strasbourg, France (virtual).*
- 2021**      *Industry Liaison Chair. IEEE International Symposium in Biomedical Imaging, Nice, France (virtual).*
- 2020**      *Chair. COVID-19-20 Lung CT Lesion Segmentation Grand Challenge, a MICCAI endorsed event.*
- 2020**      *Young Investigators and Early Career Development Program Chair, Medical Image Computing and Computer Assisted Intervention, Lima, Peru (virtual).*
- 2020**      *Special Advisor. IEEE International Symposium in Biomedical Imaging, Iowa City, Iowa, USA (virtual).*
- 2019**      *Founder of Clinical Day. IEEE International Symposium in Biomedical Imaging, Venice, Italy.*
- 2019**      *Co-Chair. ABCD Neurocognitive Prediction Challenge in conjunction with MICCAI 2019, Shenzhen, China.*
- 2018**      *Mentorship Chair. Medical Image Computing and Computer Assisted Intervention, Granada, Spain.*
- 2018**      *Chair of Biomedical Imaging and Image Processing Theme, IEEE Engineering in Medicine and Biology Conference, Honolulu, Hawaii, USA.*
- 2014-2018**      *Associate Editor of IEEE International Symposium in Biomedical Imaging.*
- 2017**      *Chair of Biomedical Imaging and Image Processing Theme, IEEE Engineering in Medicine and Biology Conference, Jeju Island, Korea.*
- 2016**      *Chair of Biomedical Imaging and Image Processing Theme, IEEE Engineering in Medicine and Biology Conference, Orlando FL, USA.*
- 2016**      *Advisory Chair. BrainInfo 2016, Barcelona, Spain.*
- 2015**      *Underwriter. Aspen Ideas Festival – Spotlight Health, Aspen CO, USA.*
- 2014**      *Co-chair of Biomedical Imaging and Image Processing Theme, IEEE Engineering in Medicine and Biology Conference, Chicago IL, USA.*
- 2011**      *Co-Chair of MICCAI Workshop on Abdominal Imaging 2011, Toronto ON, Canada.*
- 2008 -**      *Associate Editor of IEEE Engineering in Medicine and Biology Conference*
- 1999 -**      *Member of Scientific/Program Committees of MICCAI and MICCAI Workshops; IEEE*

ISBI, IEEE EMBC, IEEE BHI, SPIE Medical Imaging, SIPAIM, National Center for Image Guided Therapy Workshop; eTELEMED; e-Health; Medinf.

### **Reviewing, Evaluation and Monitoring (selected):**

**Judging:** Intel International Science and Engineering Fair, George Washington University Medical App Hackathon, Children's National Research, Education and Innovation Week

**Journals:** Medical Image Analysis, Ultrasound in Medicine and Biology, IEEE Transactions on Medical Imaging, IEEE Transactions on Image Processing, IEEE Transactions on Biomedical Engineering, IEEE Transactions on Information Technology in Biomedicine, IEEE Journal of Selected Topics in Signal Processing, European Journal of Neurology, Artificial Intelligence in Medicine, International Journal of Computer-Assisted Radiology and Surgery, Computers in Biology and Medicine, Medical Physics.

**Conferences:** MICCAI, IEEE ISBI, IEEE EMBC, SIPAIM, IPCAI, ICRA, ICDS, eTELEMED, e-Health.

**Grants:** National Institutes of Health, USA; European Commission; European Science Foundation; Ontario Institute for Cancer Research, Canada; National Research Agency, France; Council of Research in Higher Education, Romania; Innovation Directorate of Piemonte Region, Italy.

**Theses/Dissertations:** George Washington University; Johns Hopkins University; University of Southern California; University of Pittsburgh, University of Bern; University of Bucharest; University of Sibiu; University of Cape Town; National University of Colombia; Khalifa University of Science and Technology.

### **Media Coverage (selected):**

The Economist, The Washington Post, Associated Press News, The Times, Philadelphia Tribune, Pittsburgh Post Gazette, Voice of America, PBS, CBS News, Sky News, SciDev, STAT News, Becker's Hospital Review, Yahoo Finance, World News Network, International Business Times, Hispanic Business, Daily Herald, Science Daily, CNET, AXIOS, Cosmos Magazine, Health Europa, Today UK News, Florida News Time, WAM-Emirates News Agency, European Commission's Research News, Association for the Advancement of Medical Instrumentation News, Washington Business Journal, Arabian Business, Blasting News, Open Access Government, EurekAlert (American Association for the Advancement of Science), Vocative, Desi Life and Times, IEEE TV, Al Arabiya TV, Dubai TV, MBC, Emirates 24/7, Gulf News, The National, Al Ittihad, Al Khaleej, El Universal, El Comercio, Riviera Reporter, The Chosun Ilbo, Xa Luan, Nguoi Viet, Okezone, iFanr, PC Revue, GenomeWeb/360Dx, Health Data Management, Health IT Analytics, Psychology Today, First World Healthtech, News Medical, Medical Xpress, Clinical Omics, medicalresearch.com, BioSpace.com, AuntMinnie.Com

### **Public Talks (selected)**

*Plenaries, Keynotes and Panels*

*Moderator*, Science Diplomacy Summit 2024, Baltimore, MD, USA

*Keynote*, Cosmos Club 2024, Washington, DC, USA

*Panelist* at World Bank AI in Action Event Series 2023: How is AI Transforming Firms, Washington, DC, USA

*Invited Speaker* at ARPA-H First Anniversary Meeting 2023, Washington, DC, USA

*Panelist* at National Artificial Intelligence Institute's International Summit for AI in Health Care 2023, Washington, DC, USA

*Panelist* at Sibiu Innovation Day 2023 - Digital Transformation, Sibiu, Romania

*Panelist* at Digital Neurosurgery 2023, Palo Alto, CA, USA

*Clinical Day Keynote* at IEEE International Symposium on Biomedical Imaging 2023, Cartagena, Colombia

*Panelist* at Consortium of Universities for Global Health 2023 in conjunction with The World Health Summit Regional Meeting 2023 & The AAHCI Global Innovation Forum 2023, Washington, DC, USA

*Panelist* at Radiological Society of North America Annual Meeting 2022, Chicago, IL, USA

*Moderator* at Medical Image Computing and Computer-Assisted Intervention Conference 2022, Singapore

*Faculty Speaker* at AIMed Global Summit 2022, San Francisco, CA, USA

*Panelist* at Single Ventricle Investigators Meeting 2022, Baltimore, MD, USA

*Speaker* at Biomedical Advanced Research and Development Authority (BARDA) DRIVE 2022 (virtual)

*Keynote Speaker* at Princeton Envision 2022, Princeton University (virtual)

*Panelist* at Digital Transformation Summit 2022, Laurel, MD, USA

*Urology Rounds* at Children's National Hospital, 2022, Washington, DC, USA

*Keynote Speaker* at International Conference on Rare Diseases and Paediatric Research 2021 (virtual)

*Invited Speaker* at European Society for Magnetic Resonance in Medicine and Biology's Workshop, "MRI Together: a global workshop on open science and reproducibility" 2021 (virtual)

*Panelist* at Radiological Society of North America Annual Meeting 2021, Chicago, IL, USA

*Keynote Speaker* at Sibiu Innovation Day 2021 - Digital Transformation, Sibiu, Romania

*Moderator* at Medical Image Computing and Computer-Assisted Intervention Conference 2021, Strasbourg, France (virtual)

*Panelist* at Radiological Society of North America's Webinar "Leveraging the Full Potential of AI: Radiologists and Data Scientists Working Together" 2021 (virtual)

*Invited Speaker* at NVIDIA GPU Technology Conference 2021

*Moderator* at Medical Image Computing and Computer-Assisted Intervention Conference 2020, Lima, Peru (virtual)

*Panelist* at World Orphan Drug Congress USA 2020, Washington, DC, USA.

*Plenary Speaker* at Workshop in Biomedical Engineering and Artificial Intelligence 2020, Bogota, Colombia

*Plenary Speaker* at IEEE E-Health and Bioengineering 2019, Iasi, Romania.

*Keynote Speaker* at International Congress of Infectious and Parasitic Pathology 2019, Kinshasa, DRC

*Panelist* at Pediatrics 2040 2019, Huntington Beach, CA, USA

*Panelist* at Artificial Intelligence in Healthcare 2019, The Aspen Institute, Washington, DC, USA

*Summit Speaker* at National Organization for Rare Disorders-NORD's Rare Diseases and Orphan Products Breakthrough Summit 2018, Washington, DC, USA

*Plenary Speaker* at 25<sup>th</sup> Anniversary of the St. Joseph Institute, of Technology, 2018, Chennai, India.

*Plenary Speaker* at IEEE Middle East Conf. on Biomedical Engineering 2018, Gammarth, Tunisia

*Faculty* at IBRO-ARC Advanced School of Environmental Neuroscience 2018, Kinshasa, DRC

*Keynote Speaker* at IEEE Applied Imagery Pattern Recognition 2017: Big Data, Analytics and Beyond, Washington, DC, USA

*Keynote Speaker* at International Symposium on Medical Information Processing and Analysis 2017, San Andres, Colombia

*Plenary Speaker* at Mexican Symposium on Computation and Robotics in Medicine 2017, Mexico City, Mexico

*Faculty* at Shaping the Future of Pediatrics 2017, Rome, Italy

*Keynote Live Demo* at World Government Summit 2016, Edge of Government, Dubai, UAE

*Keynote Speaker* at International Symposium on Medical Information Processing and Analysis 2016, Tandil, Argentina

*Invited Exhibitor* at Arab Health 2016, Dubai, UAE

*Grand Rounds* at Children's National Hospital, 2014-2015, Washington, DC, USA

*Keynote Speaker* at International Symposium on Medical Information Processing and Analysis 2015, Cuenca, Ecuador

*Keynote Speaker* at the International Conference on Global Health Challenges 2012, Venice, Italy

*Panelist* at European Commission's Colloquium *Brain Drain, Brain Gain: New Challenges*, 2004, Paris, France

#### *Invited Talks*

China: Shenzhen University, Beijing Children's Hospital

Columbia: Universidad Nacional de Colombia

France: ParisTech, French National Institute of Research in Computer Science and Applied Mathematics, Pitié-Salpêtrière Hospitals, Mauna Kea Technologies

India: St. Joseph Institute of Technology

Japan: Osaka University, Tokyo University of Agriculture and Technology

Mexico: Universidad Panamericana

Romania: University of Sibiu

South Korea: Seoul National University Hospital

Spain: Carlos III University Madrid, Polytechnic University of Madrid



Switzerland: University of Bern  
 UAE: Khalifa University of Science, Technology and Research, United Arab Emirates University  
 UK: University of Oxford, Imperial College, University College London, London South Bank University, Queen Mary University of London  
 USA: U.S. Food and Drug Administration, National Institutes of Health, Association of Administrators in Academic Pediatrics, Columbia University, Duke University, George Washington University, Harvard Medical School, Johns Hopkins University, Princeton University, University of Southern California, Yale University, Brigham and Women Hospital, Children's National Hospital, Children's Hospital Los Angeles, Massachusetts General Hospital, Mayo Clinic, Invitae, Horizon Pharma

### **Professional Affiliations:**

Medical Image Computing and Computer-Assisted Intervention (MICCAI) Society  
 Institute of Electric and Electronic Engineers (IEEE)  
 IEEE Engineering in Medicine and Biology Society (EMBS)  
 IEEE Signal Processing Society (SPS)  
 International Society of Medical Information Processing and Analysis (SIPAIM)  
 International Society for Optical Engineering (SPIE)  
 Radiological Society of North America (RSNA)

### **FUNDING and SUSTAINABILITY**

Ensuring the sustainability and growth of my institutional, research, mentorship and community programs is a regular, fundamental, and rewarding component of my career. I would like to acknowledge the generous support of the following organizations:

National Institutes of Health: Office of the Director; Eunice Kennedy Shriver National Institute of Child Health and Human Development; National Heart, Lung, and Blood Institute; National Cancer Institute; National Institute of Biomedical Imaging and Bioengineering; National Institute of Dental and Craniofacial Research; National Human Genome Research Institute; National Center for Advancing Translational Sciences; Fogarty International Center.  
 National Science Foundation  
 United States Department of Defense  
 United States Food and Drug Administration  
 Children's Hospital Foundation  
 National Capital Consortium for Pediatric Device Innovation  
 District of Columbia Intellectual and Developmental Disabilities Research Center  
 Connor Family Foundation  
 Bill and Melinda Gates Foundation  
 Gilbert Family Foundation  
 Rare Disease Institute  
 Government of Abu Dhabi  
 UAE Ministry of Health and Prevention  
 DRC National Institute of Biomedical Research  
 Uganda Heart Institute  
 National Center for Children's Health / Beijing Children's Hospital  
 Institute of Global Health Equity Research  
 Royal Society  
 Institute of Electrical and Electronic Engineers  
 Philips Healthcare  
 Oracle  
 Nvidia Corporation

### **LANGUAGES**

English: Fluent; French: Fluent; Romanian: Native.

### **PUBLICATIONS**

More than 250 peer-reviewed publications and 25 patents and inventions. List available on request.