

MARIUS GEORGE LINGURARU, DPhil MA MSc

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RESEARCH

- 2011-** *Principal Investigator – Director of Quantitative Imaging Group.* Children's National Health System, Sheikh Zayed Institute for Pediatric Surgical Innovation, Washington, DC, USA. Founder of Quantitative Imaging Group.
- 2012-** *Associate Professor of Radiology and Pediatrics.* George Washington University, School of Medicine and Health Sciences, Washington, DC, USA.
- 2011-** *Associate Investigator.* National Institutes of Health, Clinical Center, Radiology and Imaging Sciences, Bethesda, MD, 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.

EDUCATION and CERTIFICATES

- 2014-2016** *Leader Academy.* Children's National Health System, Washington, DC, USA.
- 2013-2014** *Certificate Program in Innovation and Product Development.* Clinical and Translational Science Institute at Children's National and George Washington University, Washington, DC, USA.
- 1999-2003** *DPhil (PhD) Engineering Science/Medical Image Analysis.* University of Oxford, Department of Engineering Science, Oxford, UK.
- 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.

TEACHING

- 2013-** *Guest Lecturer – Medical Device Class (Engineering 651, BioE 6890).* University of Maryland College Park, School of Engineering, College Park, MD, USA.
- 2012-** *Lecturer - Summer Student Innovators Program,* Children's National Health System, Sheikh Zayed Institute for Pediatric Surgical Innovation, Washington, DC, USA.
- 2003-2005** *Lecturer - Image Processing.* University of Nice Sophia-Antipolis, Department of Physics, Nice, France.

- 1998-2004** *Assistant Professor* - Computer Science. University of Sibiu, Department of Computer Science and Automation, Sibiu, Romania. *Magna cum laude* for teaching excellence.
- 2000-2002** *Departmental Demonstrator*. University of Oxford, Department of Engineering Science, Oxford, UK.

OTHER PROFESSIONAL EXPERIENCE

- 2016-** *Member of Steering Committee*, IEEE International Symposium on Biomedical Imaging (ISBI).
- 2015-** *Chair* of the Technical Committee for Medical Imaging and Image Processing of IEEE Engineering in Medicine and Biology Society (EMBS).
- 2013-** *Reviewer*. Center for Scientific Review, National Institutes of Health, Bethesda, MD, USA.
- 2007-** *Expert Evaluator*. Directorate-General for Research, European Commission, Brussels, Belgium.
- 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.
- 2007-2014** *Member and Chair Elect* of the Technical Committee for Medical Imaging and Image Processing of IEEE Engineering in Medicine and Biology Society (EMBS).
- 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.
- 1998-1999** *System Engineer*. S.C. SIMONT S.A., Sibiu, Romania.
- 1996-1997** *Head of Statistics-Computing Office*. University of Sibiu, Chancellor's Office, Sibiu, Romania.
- 1996-1997** *Organizer and Coordinator* of the project "Social and Cultural Activities" financed by The Bureau for Central and Eastern Europe, Sibiu, Romania.

HONORS, AWARDS AND SCHOLARSHIPS (selected)

- 2016-** *Distinguished Lecturer* of IEEE Engineering in Medicine and Biology Society (EMBS).
- 2017** *1st Place Abstract* presented at Annual Joseph E. Robert, Jr. Academic Day Symposium 2017, Children's National Health System, Washington, DC, USA.
- 2017** *Best Paper Award – 2nd place* presented at Medical Image Computing and Computer-Assisted Intervention Workshop on Clinical Image-based Procedures 2017, Quebec City, Canada.
- 2016** *Best Paper Award* presented at Medical Image Computing and Computer-Assisted Intervention Workshop on Clinical Image-based Procedures 2016, Athens, Greece.

- 2016** *Best Abstract Award* presented at Annual Joseph E. Robert, Jr. Academic Day Symposium 2016, Children's National Health System, Washington, DC, USA.
- 2015** *Honorable Mention Award for best overall solution* at Student Innovators Program 2016, Children's National Health System, Washington, DC (mentee Ien Lee)
- 2015** *Finalist for Best Paper Award* by Medical Image Analysis journal.
- 2015** *Best Demo Award presented* at Medical Image Computing and Computer-Assisted Intervention Workshop on Interactive Medical Image Computing 2015, Munich, Germany.
- 2015** *Outstanding Clinical Poster* at Children's Tumor Foundation NF Forum 2015, Scottsdale, AZ, USA.
- 2015** *1st Place Award* by the Commissioned Officers Association of the United States Public Health Service at Intel ISEF International Competition 2015, Pittsburgh PA, USA (mentee Abia Khan).
- 2015** *Second Place Award* at Student Innovators Program 2015, Children's National Health System, Washington, DC, USA (mentee Mohammad Alsharid)
- 2014** *Best Paper Award* presented at Medical Image Computing and Computer-Assisted Intervention Workshop on Clinical Image-based Procedures 2014, Cambridge, MA, USA.
- 2012** *Best Paper Award* presented at Medical Image Computing and Computer-Assisted Intervention Workshop on Clinical Image-based Procedures 2012, Nice, France.
- 2008** *Science Award for Outstanding Scientific Research* presented at Workshop on Vasculopathy in Sickle Cell Disease, National Institutes of Health, Bethesda, MD, USA.
- 2002** *Graduate Academic Fund Award* from Keble College, University of Oxford.
- 1999-2002** *Scatcherd European Scholarship* from University of Oxford for DPhil in Medical Imaging.
- 1999-2002** *Overseas Research Scholarship* from Committee of Vice-Chancellors and Principals of UK Universities.
- 2000** *Runner Up Prize for Excellence in Engineering by a Younger Engineer of Britain* conferred at Houses of Parliament, London, UK.

PROFESSIONAL SERVICE

Organizing, Chairing and Editorial Service (selected):

- (2019)** *General Chair.* IEEE International Symposium in Biomedical Imaging, Venice, Italy.
- (2018)** *Mentoring 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.
- (2018)** *Editor* of Biomedical Imaging and Image Processing Theme, IEEE Engineering in Medicine and Biology Conference, Honolulu, Hawaii, USA.

- 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 -** *Associate Editor* of IEEE Transactions on Biomedical Engineering.
- 2014 -** *Associate Editor* of SPIE Journal of Medical Imaging.
- 2014 -** *Associate Editor* of IEEE International Symposium in Biomedical Imaging.
- 2014** *Co-chair* of Biomedical Imaging and Image Processing Theme, IEEE Engineering in Medicine and Biology Conference, Chicago IL, USA.
- 2012 -** *Founder, Organizer and Co-Chair* of MICCAI Workshop on Clinical Image-based Procedures
- 2011** *Organizer and 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; SPIE Medical Imaging; National Center for Image Guided Therapy Workshop; eTELEMED; e-Health; Medinf.

Reviewing, Evaluation and Monitoring (selected):

- Judging: Intel International Science and Engineering Fair
- 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, IPCAI, ICRA, ICDS, eTELEMED, e-Health.
- Grants: European Commission; Ontario Institute for Cancer Research, Canada; National Research Agency, France; Council of Research in Higher Education, Romania; Innovation Directorate of Piemonte Region, Italy.
- Dissertations: George Washington University; Johns Hopkins University; University of Bern; University of Bucharest; University of Sibiu; University of Cape Town.

Media Coverage (selected):

The Economist, Voice of America, The Times, CBS News, Sky News, STAT News, World News Network, International Business Times, Hispanic Business, Daily Herald, Science Daily, CNET, WAM-Emirates News Agency, European Commission's Research News, Washington Business Journal, Arabian Business, Blasting News, EurekAlert (American Association for the Advancement of Science), Vocative, Desi Life and Times, 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, Medical Xpress, medicalreseach.com, BioSpace.com, AuntMinnie.Com.

Presentations (selected)

Plenary and Keynote Talks

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

Plenary Speaker at IEEE Middle East Conference on Biomedical Engineering (2018), Gammarth, Tunisia.

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 Speaker 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 Health System, 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

Columbia: Universidad Nacional de Colombia

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

Japan: Osaka University, Tokyo University of Agriculture and Technology.

Mexico: Universidad Panamericana.

Romania: University of Sibiu.

South Korea: Seoul National University Hospital.

Switzerland: University of Bern.

UAE: Khalifa University of Science, Technology and Research, United Arab Emirates University.

UK: Imperial College, University College London, University of Oxford, 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, Harvard Medical School, Johns Hopkins University, Yale University, Brigham and Women Hospital, Children's National Health System, Massachusetts General Hospital, Mayo Clinic, Invitae, Horizon Pharma.

Collaborations (including publications):

Canada: Concordia University.

France: National Institute of Research in Computer Science and Automation, National Institute of Health and Medical Research, National Center for Scientific Research, Pitié-Salpêtrière Hospitals Paris, Université de la Méditerranée Marseille, Mauna Kea Technologies.

Greece: Foundation for Research and Technology – Hellas.

Italy: University of Padova.

Japan: Osaka University, Nara Institute of Science and Technology.

Romania: University of Sibiu, Academy of Medical Sciences.

Spain: Universitat Pompeu Fabra, Universitat Autònoma de Barcelona, Public University of Navarra, Alma IT Systems.

Switzerland: University of Bern.

UAE: Khalifa University of Science, Technology and Research

UK: University of Oxford, Churchill Hospital Oxford.

USA: U.S. Food and Drug Administration, NIH Clinical Center, NIH National Human Genome Research Institute, NIH National Cancer Institute, NIH National Heart, Lung and Blood Institute, Brown University, Duke University, Harvard University, Harvard Medical School, Johns Hopkins University, San Francisco State University, University of Chicago, University of Pittsburgh, University of Southern California, Children's Hospital Boston, Children's Hospital Los Angeles, Children's Hospital of Philadelphia, Beth Israel Deaconess Medical Center, iCAD, Mayo Clinic, Inc., Kitware Inc., Philips Healthcare.

Professional Affiliations:

Institute of Electric and Electronic Engineers (IEEE), IEEE Engineering in Medicine and Biology Society (EMBS); Medical Image Computing and Computer-Assisted Intervention (MICCAI) Society; International Society for Optical Engineering (SPIE), Radiological Society of North America (RSNA).

LANGUAGES

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

PUBLICATIONS

More than 160 peer-reviewed publications and 12 patents and inventions; details at: <https://sites.google.com/site/mglinguraru/publications>