Curriculum Vitae Jonas R. Mureika

Jonas Roman Mureika

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Citizenship: Canada, USA Languages: Fluent in English and French (spoken, written, reading)

Education

 Ph.D., Department of Physics, University of Toronto (2002)
 <u>Thesis:</u> Topics in Multifractal Analysis of Two- and Three-Dimensional Structures in Spaces of Constant Curvature (Advisor: Dr. Charles C. Dyer)

M.Sc., Department of Physics and Astronomy, University of Waterloo (1995)
 Thesis: Gravitationally-Induced Three-Flavor Neutrino Oscillations as a Possible Explanation of the Solar Neutrino Problem (Advisor: Dr. Robert B. Mann)

• B.Sc., University of Toronto, Physics and Astronomy Specialist Program (1993)

Academic and Leadership Appointments

• Professor with tenure (2013 - present)

Department Chair (2016 - 2022)

Associate Professor with tenure (2008 - 2013)

Assistant Professor (2004 - 2008)

Department of Physics, Loyola Marymount University, Los Angeles, CA

- Visiting Assistant Professor of Physics (2001 2004)
 W. M. Keck Science Center, Claremont McKenna, Pitzer, and Scripps Colleges, Claremont, CA
- Visiting Lecturer of Physics (2003 2004)
 Department of Physics and Astronomy, Pomona College, Claremont, CA
- Visiting Lecturer of Mathematics (Sep 2003 Dec 2003)

 Department of Mathematics, Scripps College, Claremont, CA
- NSERC Postdoctoral Fellow (2002 2003)
 W. M. Keck Science Center, Claremont McKenna, Pitzer, and Scripps Colleges, Claremont, CA

Academic Honors

- 2020 LMU President's Fritz B. Burns Distinguished Teaching Award
- 2020 LAX Costal Chamber of Commerce Teacher Eddy Award
- 2018 LMU Elizabeth and Michael Rudinica Award for Student-Faculty Research

External Grants and Fellowships

- KITP Scholar Research Fellowship, Kavli Institute for Theoretical Physics, University of California Santa Barbara (2021 - 2023)
- Deutsche Forschungsgemeinschaft (DFG) conference grant: €24,000 (2017, 2015, 2013) (co-organizer with P. Nicolini, M. Kaminski, M. Bleicher)
- Research Corporation for Science Advancement Cottrell College Science Award: \$31,430 USD (2007 2010)
- NSERC Postdoctoral Fellowship, Applied Mathematics: \$70,000 CDN (2002 2003)

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Internal Grants and Fellowships

- LMU Seaver Faculty Fellowship: \$5000 USD (2020/21)

 "Extended Uncertainty Principle Effects in Supermassive Black Holes"
- LMU Continuing Faculty Summer Grant: \$5000 USD (May Aug 2017) "Quasinormal Modes of Modified Gravity Black Holes'
- LMU Continuing Faculty Summer Grant: \$5000 USD (May Aug 2015) "Astrophysical Tests of GUP Modified Black Holes"
- Frank R. Seaver Science Research Fellowship: \$5000 (Jan May 2014) "Investigations in Lower Dimensional Black Holes"
- LMU Continuing Faculty Summer Grant: \$5000 USD (May Aug 2013) "Phenomenology of Lower Dimensional Black Holes"
- LMU Continuing Faculty Summer Grant: \$5000 USD (May Aug 2011)

 "Cosmological Implications of Primordial Black Holes in the Vanishing Dimensions Framework"
- Frank R. Seaver Science Research Fellowship (Sep Dec 2009)

 "Void Scaling and Lacunarity of Large Scale Cosmological Structure"
- LMU Continuing Faculty Summer Grant: \$5000 USD (May Aug 2009) "Constraining unparticle physics with fundamental laws"
- LMU New Faculty Summer Grant: \$4000 USD (May Aug 2005) "Climate Effects on Aerodynamic Enhancement of Short Sprint Races"
- LMU New Faculty Start-Up Grant: \$20,000 USD (Sep 2004 Aug 2006)

Visiting Activity

- Frankfurt Institute for Advanced Studies, Frankfurt, Germany (July 2022; Jul 2017; Jul 2015; July 2013; May 2012)
- Department of Physics and Astronomy, University of Bologna, Italy (May 2022; May 2019; March 2018)
- School of Physics and Astronomy, Queen Mary, University of London, UK (May 2019; March 2018; May 2016; May 2014)
- Max Planck Institute for Radio Astronomy, Bonn, Germany (March 2018)
- Perimeter Institute for Theoretical Physics, Waterloo, ON (Feb 2017; Feb 2015; Mar 2014; Nov 2013; Jun 2012; Sep 2010; Nov 2007)
- University of Trieste, Department of Physics, Trieste, Italy (May-Jun 2011)
- University of Waterloo Department of Physics and Astronomy, Waterloo, ON, Canada (Mar 2010)
- LIGO Laboratory, Caltech, Pasadena, CA (Oct Dec 2009)
- Moore Center for Theoretical Physics and Cosmology, Caltech, Pasadena, CA (Jul 2009)

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Professional Memberships

- American Physical Society / Division of Gravitational Physics
- Canadian Association of Physicists / Division of Theoretical Physics
- International Society on General Relativity and Gravitation
- International Society for Quantum Gravity
- European Cooperation in Science and Technology (COST) Action CANTATA

Select External Academic / Professional Service

- Associate Editor, Canadian Journal of Physics (May 2022 May 2027)
- Session Chair and "Best Student Talk" Competition Judge, Atlantic General Relativity Meeting, Bishop's University, QC, Canada (26-29 May 2021)
- International Scientific Committee, 3rd Fields and Gravity (FLAG) Meeting, Catania, Italy (13-15 June 2019)
- Co-Organizer, Black Holes and Alternatives 2018, Max Planck Institute for Radio Astronomy, Bonn, Germany (14 March 2018)
- Co-Organizer, *Third Karl Schwarzschild Meeting on Gravitation Physics*, Frankfurt Institute for Advanced Studies, Frankfurt, Germany (24-28 July 2017)
- Co-Organizer, Second Karl Schwarzschild Meeting on Gravitation Physics, Frankfurt Institute for Advanced Studies, Frankfurt, Germany (20-24 July 2015)
- Co-Organizer, First Karl Schwarzschild Meeting on Gravitation Physics, Frankfurt Institute for Advanced Studies, Frankfurt, Germany (22-26 July 2013)
- Session Chair, Quantum Gravity and Quantum Cosmology, Congress of the Canadian Association of Physicists, Montréal, QC (May 2013)
- Advisory Committee, 2010 Anacapa Society West Coast Workshop, Pomona, CA (December 2010)
- Journal Referee: Physics Letters B, Classical and Quantum Gravity, Journal of High Energy Physics, Journal of Cosmology and Astroparticle Physics, General Relativity and Gravitation, Annals of Physics, American Journal of Physics, Canadian Journal of Physics, Physica A, Europhysics Letters, European Physical Journal C, European Physical Journal Plus, Communications in Theoretical Physics, International Journal of Modern Physics A, International Journal of Modern Physics D, Advances in High Energy Physics, Chaos, Entropy, International Journal of Physics C, Russian Gravitational Society: Gravitation and Cosmology, Kuwait Journal of Science, Journal of Sports Sciences, Journal of Biomechanics, Journal of Mathematical Imaging and Vision, Computers and Electronics in Agriculture, The Visual Computer, Music Perception, The Art Bulletin
- Grant Agency Reviewer: Natural Sciences and Engineering Research Council of Canada (NSERC); Research Corporation for Science Advancement; European Cooperation for Science and Technology (COST); Health Research Council of New Zealand; FONDECYT Program: Astronomy, Cosmology, and Particles, Ministry of Education, Government of Chile
- Book Reviewer: Cambridge University Press; Nature Publishing Group, Addison-Wesley Co.; AIP Publishing, University Science Books
- Consultant: EM:RAP Podcast; Shabam! podcast; The Particle Zoo LLC; Higher Mammals Productions; Athletics Canada