

**Ado Jorio de Vasconcelos**  
Curriculum Vitae – January 2022



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**Personal Information**

**Name** Ado Jorio de Vasconcelos      **Scientific signature:** Ado Jorio  
**Nationality** Brazilian  
**Languages** Fluent in Portuguese, English, and French  
**Professional Address** Departamento de Física, Instituto de Ciências Exatas  
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**Education**

**1996 - 1999** Ph.D. Physics *Universidade Federal de Minas Gerais (UFMG)*  
**1997 - 1997** Specialization Infrared Spectroscopy, CNRS, France  
**1998 - 1998** Specialization Inelastic Scattering/Neutron Diffraction, *ILL*, France  
**1993 - 1994** Bachelor Physics, UFMG

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**Positions held**

**2021 – Present** Technological Innovation Graduate Program, Coordinator – UFMG, Brazil  
**2020 – Present** Physics Graduate Program, Coordinator – UFMG, Brazil  
**2019 – Present** UFMG Lab. of Nanotechnology Coordinator, Nat. Nanotech. System, MCTI  
**2016 – 2018** Dean of Research – UFMG, Brazil  
**2016 – 2016** Guest Professor – Freie Universität Berlin, Germany  
**2015 – 2016** Department Head – Department of Physics, UFMG, Brazil  
**2013 – 2014** Guest Professor – ETH Zurich, Switzerland  
**2010 – 2012** Director of the Technology Transfer Office – UFMG  
**2010 – Present** Full Professor – Federal University of Minas Gerais  
**2008 – 2009** General Coordinator of Strategic Studies and Information – Inmetro  
**2002 – 2009** Associate Professor - Federal University of Minas Gerais  
**2000 - 2001** Post-doctorate - Massachusetts Institute of Technology (MIT)

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**Councils**

**2020** President Search Committee, Brazilian Center for Physics Research  
**2019 – Present** Commission for Technology and Innovation in Health, UFMG  
**2018 – 2021** Council of the Technological Transfer and Innovation Coordination, UFMG  
**2018 – 2021** University Council, UFMG  
**2018 – 2021** Scientific Committee, Inst. for Advanced Transdisciplinary Studies, UFMG  
**2018 – 2020** CNPEM Management Contract Evaluation Committee  
**2018** Directors Search Committee, National Nuclear Energy (CNEM) Units  
**2017 – 2021** Administrative Council (President since 2019), BH Technological Park  
**2017 – 2019** Ministry of CT&I Nanotechnology and New Materials Advisory Committee  
**2016 – 2018** Teaching, Research and Extension Council, UFMG  
**2016 – 2018** Advisory Board for Special Projects, MG Funding Agency  
**2015 – 2017** Technical-Scientific Council of the Technological Park of Belo Horizonte  
**2015 – 2016** Directing Council of the Microscopy Center, UFMG

2014 – 2017	CNPq Physics and Astronomy Advisory Committee
2013 – 2016	Scientific and Technological Committee of Fundep Participações AS
2008 – 2009	Ministry of CT&I Nanotechnology Advisory Committee

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## Honors and Awards

2022	<b>TWAS Fellow</b>
2021	<b>Professor Francisco Romeu Landi Award, National Council of State Research Support Foundations</b>
2019	Productivity Award - Level 1A, CNPq, Brazil.
2018	<b>Commander - National Order of Scientific Merit</b>
2016	<b>Highly Cited Researchers – Thomson Reuters Medal of Inconfidence – Minas Gerais State Government</b>
2015	<b>Georgy Foster Research Award – Humboldt Foundation Membership Award from the American Chemical Society</b>
2014	<b>Member of the Brazilian Academy of Sciences</b> Productivity Award - Level 1A, CNPq, Brazil.
2013	Productivity Award - Level 1B, CNPq, Brazil. Knowledge and Culture - Innovation Award, UFMG, Brazil
2012	<b>ICTP Prize 2011, Abdus Salam International Centre for Theoretical Physics.</b>
2011	Productivity Award - Level 1C, CNPq, Brazil. Minas Gerais Researcher Award - PPM, Fapemig, Brazil
2009	<b>Scopus Brazil Award, Scopus and Capes Somiya Award, International Union of Materials Research Societies</b>
2008	Junior Member of The Brazilian Academy of Science Productivity Award - Level 1D, CNPq, Brazil
2007	Minas Gerais Researcher Award - PPM, Fapemig, Brazil

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## Advisor

Post-Doctoral projects	11	Ph. D. Thesis	12
Master Thesis	11	Undergraduate research project	32

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## Publications

Researcherid: F-2141-2010

Google Scholar: <https://scholar.google.com/citations?user=3QtEtIYAAAAJ&hl=pt-BR>

ORCID: <https://orcid.org/0000-0002-5978-2735>

**Published Papers** (data from: Web of Science/[Scopus](#)/[Google Scholar](#))

Total number of papers: 272/**287**/**456** Citations: above 33,000/**35,000**/**50,000**

H-index: 77/**79**/**91**

- Books** - A. Jorio (ed.), *Bioengineering Applications of Carbon Nanostructures*, Springer, 2016.  
 - A. Jorio, R. Saito, M.S. Dresselhaus, G. Dresselhaus. *Raman spectroscopy on graphene related systems*. Berlin: Wiley-VCH, 2010 (also in Chinese).  
 - M.S. Dresselhaus, G. Dresselhaus, A. Jorio. *Group Theory: Application to the Physics of Condensed Matter*. Heidelberg: Springer-Verlag GmbH, 2008.  
 - A. Jorio, M. S. Dresselhaus, G. Dresselhaus (ed). *Carbon Nanotubes: Advanced Topics in the Synthesis, Structure, Properties and Applications*. Heidelberg: Springer-Verlag GmbH, 2008.  
 + 24 book chapters

**Technologies** 12 patents; 4 software (including [www.somos.ufmg.br](http://www.somos.ufmg.br))

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## Major Science and Technology Projects (Coordinator)

<b>2018 – Present</b>	Brazil-Germany Collaboration - CAPES/DAAD/PROBRAL
<b>2018 – Present</b>	Study of the properties of Cooper Photonic pairs, CNPq
<b>2018 – 2021</b>	Nanoscope – Codemge/Embrapii DCC-UFMG/Embrapii Senai Cimatec
<b>2018 – 2021</b>	Sibratec Nano - Nanoantenas Ópticas: Inovação e Escalabilidade, FINEP/MCTI
<b>2017 – Present</b>	Network for Innovation in Bioengineering of Nanosystems, FAPEMIG
<b>2016 – 2021</b>	Development of Functional Concept for High Complexity Product: Optical Nanoscopy, DF-NTQI/UFMG
<b>2016 – 2019</b>	Scientific Instrumentation as Innovation Platform in Microscopy and Spectroscopy, CAPES/Inmetro RELAI
<b>2015 – 2016</b>	A novel method to measure the mechanical properties of graphene with in situ spectroscopy, microscopy and nanomanipulation, US-Army ERDC
<b>2014 – 2018</b>	Production of entanglement in the inelastic light scattering from graphene, CNPq
<b>2013 – 2021</b>	Development of Alzheimer Disease diagnosis based on intraocular Spectroscopy, FINEP
<b>2013 – Present</b>	Associated Laboratory for Scientific Instrumentation, Inmetro
<b>2012 – 2016</b>	National Inst. for Research and Technology in Molecular Medicine - Council Member
<b>2012 – 2015</b>	Anthropogenic soils and biochar study, CNPq Electronic and optical properties of disorder in graphene & carbon nanotubes, CNPq-MIT Nanocomposite and nanodevice production for biotech. applications, MCTI/CNPq
<b>2011-2017</b>	Brazilian Network for Research and Instrum. in optical nanospectroscopy, CNPq/MCTI
<b>2011-2015</b>	Network for biotechnological applications of carbon nanotubes, PRONEX - Fapemig
<b>2009-2011</b>	Brazilian-Mexican Virtual Nanotechnology Center, CBMNano, MCTI-Conacyt Brazil-Cambridge collaboration, The Royal Society Research grant AFOSR/SOARD
<b>2006-2009</b>	Brazilian Network for Scanning Probe Microscopy, CNPq/MCTI Brazil-Germany Collaboration - CAPES/DAAD/PROBRAL

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## Conference Organization (Chair)

- *Annual Series International Workshops on Metrology, Standardization and Industrial Quality of Nanotubes. Since 2007*
  - *Annual Series International Symposium on Instrumentation Systems, Circuits and Transducers, since 2016*
  - *Eighteenth International Conference on the Science and Application of Nanotubes and Low Dimensional Materials. 2017.*
  - *UFMG Week of Knowledge 2017*
  - *XXV International Conference on Raman Spectroscopy. 2016.*
  - *Chip on the Mountains and 1st International Symposium on Instrumentation Systems, Circuits and Transducers. 2016.*
  - *Fourth International Conference on Tip Enhanced Raman Spectroscopy 2014*
  - *Brazilian Condensed Matter Physics Meeting 2010*
  - *8<sup>th</sup> International Conference on the Science and Application of Nanotubes, Ouro Preto, Brazil. 2007*
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