

Vitor Martins de Oliveira – Curriculum Vitae

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PROFESSIONAL AIM

Future faculty position.

EDUCATION

UNIVERSITY OF SÃO PAULO (USP) – São Paulo/SP – Brazil

PhD, Physics – From February 2017 to December 2020

FEDERAL UNIVERSITY OF ABC (UFABC) – Santo André/SP – Brazil

MSc, Mathematics – From June 2014 to August 2016

BSc, Physics – From January 2009 to December 2014

BSc, Science and Technology – From January 2009 to December 2013

UNIVERSITY OF TWENTE – Enschede – The Netherlands

BSc, Advanced Technology (exchange student) – From September 2012 to July 2013

PROFESSIONAL BACKGROUND

Academic Tutor – From September to December 2013

Student monitor – *Linear Algebra* course – Bachelor of Science and Technology

Student Intern – From April to July 2013

Student intern at Physics of Complex Fluids Group (PCF) – University of Twente

RESEARCH ACTIVITIES

An Alternative Method for Computing the Dimension of Fractal Basin Boundaries – From September 2015 to August 2016

Master's Thesis supervised by Prof. Dr. Rafael Ribeiro Dias Vilela de Oliveira and supported by CAPES/Brazil

Stability in the Three-Body Problem: Euler and Lagrange's Solutions and the Cromer Method – From August to December 2014

Bachelor Thesis of the Physics programme (UFABC) supervised by Prof. Dr. Marcelo de Oliveira da Costa Pires

Literature Review on Aerosol Advection – From August to December 2014

Bachelor Thesis of the Science and Technology programme (UFABC)

Trapping and release of droplets in microchannels by use of electrostatic potential wells – From April to July 2013

Bachelor Thesis of the Advanced Technology programme (Twente) supervised by MSc. Riëlle de Ruiter and MSc. Arjen Pit

Chaotic Dynamics of Aerosol Dispersion – From August 2011 to July 2012

Undergraduate research project supervised by Prof. Dr. Rafael Ribeiro Dias Vilela de Oliveira and supported by UFABC

Bifurcations in Three-Body Systems – From August 2010 to July 2011

Undergraduate research project supervised by Prof. Dr. Marcelo de Oliveira da Costa Pires and supported by UFABC

PUBLISHED PAPERS

Riëlle de Ruiter, Arjen M. Pit, **Vitor Martins de Oliveira**, Michèl H. G. Duits, Dirk van den Ende and Frieder Mugele, **Electrostatic potential wells for on-demand drop manipulation in microchannels**, *Lab Chip*, **14**, 883-891, 2014

INVITED SPEAKER

Workshop of Grupo Controle de Oscilações – Applied Physics Department – University of São Paulo – October 2016

PARTICIPATION IN EVENTS

Vitor Martins de Oliveira and Marcelo Oliveira da Costa Pires, **Stability in the Three-Body Problem: Euler and Lagrange's Solutions and the Cromer Method** – Poster Presentation – Cycle of Lectures of the Physics Graduate Programme, Universidade Estadual Paulista Júlio de Mesquita Filho (UNESP), Guaratinguetá/SP, Brazil – August 2015

Vitor Martins de Oliveira and Marcelo Oliveira da Costa Pires, **Bifurcations in Three-Body Systems** – Poster Presentation – IV Symposium on Undergraduate Scientific Research of UFABC, Santo André/SP, Brazil – September 2011

Vitor Martins de Oliveira and Marcelo Oliveira da Costa Pires, **Bifurcations in Three-Body Systems** – Poster Presentation – Physics Meeting by the Brazilian Society of Physics, Foz do Iguaçu/PR, Brazil – June 2011

PARTICIPATION IN EVENTS AS A LISTENER

VI Summer Meeting on Physics of ITA – Technological Institute of Aeronautics, São José dos Campos/SP, Brazil – February 2011

TEACHING EXPERIENCE

Volunteer physics teacher at the Preparatory School of the Federal University of ABC (EPUFABC) – From January to December 2011

Teaching internship in the *Multivariable Functions* course of the Bachelor of Science and Technology programme at Federal University of ABC

SCHOLARSHIPS AND AWARDS

Postgraduate Scholarship (Master's Level) – From June 2014 to May 2016

Scholarship supported by the Coordination for the Improvement of Higher Education Personnel (CAPES – Brazil)

Academic Tutoring Scholarship – From September to December 2013

Scholarship supported by UFABC

Science without Borders Scholarship (SwB) – From September 2012 to July 2013

Undergraduate mobility scholarship supported by the National Council for Scientific and Technological Development (CNPq – Brazil)

Honourable Mention on the IV Symposium on Undergraduate Scientific Research of UFABC – September 2011

Undergraduate Research Project Scholarship – From August 2011 to July 2012

Scholarship supported by UFABC

Undergraduate Research Project Scholarship – From August 2010 to July 2011

Scholarship supported by UFABC

COMPLEMENTARY FORMATION

Real Analysis, summer course UFABC – January 2012

Astrophysics of the Solar System, distance education course – Brazilian National Observatory – From 2009 to 2010

COMPUTER SKILLS

Basic knowledge – c (programming language), Ubuntu

Intermediate knowledge – LATEX, Matlab, Excel, Word, Power Point

LANGUAGES SKILLS

English – Proficiency

Portuguese – Native

CERTIFICATES

TOEFL ITP – November 2014

Score: 637/677

Level: Proficiency

IELTS – April 2012

Score: 6.5/9.0

Level: Competent user

INTERESTS

Music, Chess, Running, Travelling