CONTACT INFORMATION

Federal University of São Paulo

Department of Science and Technology São José dos Campos, SP, Brazil 12247-014

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Citizenship: Brazilian

ACADEMIC APPOINTMENTS

• Assistant Professor of Mathematics.

June 2014 - present.

Federal University of São Paulo, São José dos Campos.

• Post-doctoral Fellow.

September 2015 - July 2016.

University of Ottawa.

 $\circ\,$ Assistant Professor of Mathematics.

November 2013 - June 2014.

Federal University of Goiás, Catalão.

Visiting Graduate Student.
 University of Georgia.

August 2010 - June 2011.

EDUCATION

 $\circ\,$ Ph. D. in Mathematics. State University of Campinas.

June 2013.

Advisor: Adriano Moura (Unicamp), Co-advisor: Daniel Nakano (UGA).

Thesis title: Characters and cohomology of modules for affine Kac-Moody algebras and generalizations.

 $\circ\,$ M. S. in Mathematics. State University of Campinas.

February 2009.

Advisor: Adriano Moura (Unicamp), Co-advisor: Marcos Jardim (Unicamp).

Thesis title: Algebraic groups and hyperalgebras.

• B. A. in Mathematics. State University of Campinas.

December 2006.

Grants

Post-doctoral grant. National Council for Scientific and Technological Development (CNPq).
 University of Ottawa. September 2015 - July 2016.

- CNPq Research grant.
 Grant number 462315/2014-2. December 2014 present.
- Goiás Research Foundation (FAPEG) grant for events.
 III Workshop de Álgebra da UFG-CAC. October 2014.
- FAPEG grant for events.
 II Workshop de Álgebra da UFG-CAC. April 2014.
- Ph. D. grant. São Paulo Research Foundation (FAPESP).
 June 2009 June 2013.
- Ph. D. grant. Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES).
 March 2009 May 2009.
- M. S. grant. CNPq.October 2008 February 2009.
- M. S. grant. CAPES.
 March 2006 September 2008.
- Undergraduate Research Program. CNPq. August 2004 - July 2005.

RESEARCH

- Representation theory of Lie algebras, Lie superalgebras and algebraic groups.
- Homological methods applied to representation theory.

PUBLICATIONS

- Invariant polynomials on truncated multicurrent algebras.
 - J. Pure Appl. Algebra (2018). Joint work with A. Savage.
- Automorphisms of Ideals of Polynomial Rings.
 Bull Braz Math Soc, New Series 49 (2018), no. 1, 1–15. Joint work with T. C. de Mello.
- o On Demazure and local Weyl modules for affine hyperalgebras.

 Pacific J. Math. **274** (2015), no. 2, 257–303. Joint work with A. Bianchi and A. Moura.
- $\circ \ Second \ cohomology \ for \ finite \ groups \ of \ Lie \ type.$
 - J. Algebra 360 (2012), 21–52. Joint work with the UGA VIGRE Algebra Group.
- Weyl modules and Weyl functors for Lie superalgebras.
 ArXiv:1611.06349 [math.RT]. Joint work with I. Bagci and L. Calixto.

- Irreducible modules for equivariant map superalgebras and their extensions. ArXiv:1604.01622 [math.RT]. Joint work with L. Calixto.
- Extensions for Generalized Current Algebras. ArXiv:1511.00024 [math.RT]. Joint work with B. Boe, C. Drupieski and D. Nakano.

TEACHING EXPERIENCE

0	Federal University of São Paulo:	
	Multivariable Calculus for Science and Technology majors.	February - July, 2018.
	Abstract Algebra for Applied Math master students.	August - December, 2017.
	Abstract Algebra for Computational Math majors.	August - December, 2017.
	Linear Algebra for Science and Technology majors.	February - July, 2017.
	Analytic Geometry for Science and Technology majors.	August - December, 2016.
	Geometry for Mathematics Education master students.	September - December, 2016.
	Linear algebra for Science and Technology majors.	February - July, 2015.
	Multivariable calculus for Science and Technology majors.	August - December, 2014.
	Numerical calculus for Science and Technology majors.	August - December, 2014.
0	Federal University of Goiás:	
	$\label{eq:Multivariable calculus for Mathematics Education majors.}$	March - June, 2014.
	Introduction to category theory.	March - June, 2014.
	Linear algebra for Industrial Mathematics majors.	March - June, 2014.
	Numerical calculus for Science and Engineering majors.	Nov. 2013 - Feb. 2014.
	Multivariable calculus for Science and Engineering majors.	Nov. 2013 - Feb. 2014.
0	Tutor and Teaching assistant at Unicamp:	
	Linear algebra for Science and Engineering majors.	August - December, 2012.
	Tutor under the supervision of Dr. Adriano Moura.	
	Calculus I for Science and Engineering majors.	March - July, 2012.
	Teaching Assistant for Dr. Hyun Mo Yang and Salvador Vega.	
	Linear algebra for Mathematics and Physics majors.	July - December, 2006.
	Tutor under the supervision of Dr. Adriano Moura.	
	Complex analysis for Mathematics and Physics majors.	March - June, 2006.
	Tutor under the supervision of Dr. Benjamin Bordin.	

SERVICE

• Representative of Mathematics in the Curriculum Committee.

Federal University of São Paulo.

March, 2017 - present.

• Representative of the Masters for Secondary Education program in the Graduate Studies and Research Committee.

Federal University of São Paulo.

April - August, 2015 and August, 2016 - present.

o Organizer of Mathematical Café.

Federal University of São Paulo.

February - August, 2015.

Organizer of High School Teachers Perfectioning Program (PAPMEM).
 Federal University of São Paulo.

July, 2015.

Organizer of III Workshop de Álgebra da UFG-CAC.
 Federal University of Goiás. Partially supported by FAPEG.

October, 2014.

Co-advisor to Geise Kelly da Silva Santos for Undergraduate Senior Thesis.
 Federal University of Goiás.

July, 2014.

• Search committee. Temporary professor.

Federal University of Goiás.

February, 2014 and May, 2014.

o Organizer of II Workshop de Álgebra da UFG-CAC.

Federal University of Goiás. Partially supported by FAPEG.

April, 2014.

o Organizer of PAPMEM (High School Teachers Perfectioning Program).

Federal University of Goiás.

January, 2014.

o Organizer of I Workshop de Álgebra da UFG-CAC.

Federal University of Goiás. Partially supported by FAPEG.

November, 2013.

o Graduate Student Ombudsman to the Mathematics Graduate Committee.

IMECC - Unicamp.

May, 2012 - May, 2013.

• Organizer of VII Graduate Students Meeting at IMECC.

Partially supported by CAPES grant PAEP-948/2012.

September, 2012.

• Organizer of Graduate students seminar.

IMECC - Unicamp.

Fall 2009, Spring 2010 and Fall 2011.

Talks, Poster Presentations and Short Courses

• An introduction to spectral sequences. Mini-course.

I Algebra Meeting at UFMG. Federal University of Minas Gerais.

February 2017.

Extensions for generalized current algebras. Talk.
 24th Brazilian Algebra Meeting. Diamantina, Brazil.
 August 2016.

- Automorphisms of ideals of polynomial rings. Talk.
 Hopf Algebras, Algebraic Groups and Related Structures. Newfoundland.
 June 2016.
- Demazure and local Weyl modules for hyper current algebras. Talk.
 Spring Southeastern AMS Sectional Meeting. University of Georgia.
 March 2016.
- Extensions for current algebras. Seminar talk.
 Algebra Seminar. University of Ottawa.
 September 2015.
- Cohomologies of current algebras. Seminar talk.
 Algebra Seminar. University of Georgia.
 February 2015.
- Characters of certain finite-dimensional modules for hyper current algebras. Talk.
 I Brazilian Congress of Young Researchers in Pure and Applied Math. December 2014.
- Lie algebras and finite-dimensional modules in positive characteristic. Seminar talk.
 Weekly Applied Math Seminar. Federal University of São Paulo.
 September 2014.
- An introduction to algebras. Seminar talk.
 Weekly Algebra Seminar. Federal University of Goiás.
 May 2014.
- Direct and semidirect products of groups. Talk.
 II Workshop de Álgebra da UFG-CAC. Federal University of Goiás.

 April 2014.
- From Naturals to Reals. Seminar talk.
 Weekly Algebra Seminar. Federal University of Goiás.
 December 2013.
- Set theory: from the empty set to the axiom of choice. Talk.
 I Workshop de Álgebra da UFG-CAC.
 November 2013.
- Characters of modules for hyper current algebras. Poster presentation.
 Symmetries in Mathematics and Physics II.
 June 2013.
- Characters of Weyl modules for hyper loop algebras. Talk.
 Workshop "Young Researchers in Algebra".
 May 2013.
- Characters of representations of hyper algebras. Seminar talk.
 Algebra Seminar. University of Georgia.
 February 2013.
- Flag varieties and representation theory. Short course.
 VI Brazilian Mathematical Society Biennial.
 December 2012.

Last update: April 2, 2018