

CONTACT INFORMATION

Federal University of São Paulo

Department of Science and Technology

São José dos Campos, SP, Brazil 12247-014

Citizenship: Brazilian

tmacedo@unifesp.br

www.ict.unifesp.br/tmacedo

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.
- Assistant Professor of Mathematics. November 2013 - June 2014.
Federal University of Goiás, Catalão.
- Visiting Graduate Student. August 2010 - June 2011.
University of Georgia.

EDUCATION

- 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.
- 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

- *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.
- *Invariant polynomials on truncated multicurrent algebras.*
J. Pure Appl. Algebra. **223** (2019), no. 1, 349–368. Joint work with A. Savage.
- *Automorphisms of Ideals of Polynomial Rings.*
B. Braz. Math. Soc., New Series. **49** (2018), no. 1, 1–15. Joint work with T. C. de Mello.

- *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.
- *Second cohomology for finite groups of Lie type.*
J. Algebra **360** (2012), 21–52. Joint work with the UGA VIGRE Algebra Group.
- *Extensions for Generalized Current Algebras.*
ArXiv:1511.00024 [math.RT]. Joint work with B. Boe, C. Drupieski and D. Nakano.

TEACHING EXPERIENCE

- Federal University of São Paulo:

Analytic Geometry for Science and technology majors.	August - December, 2018.
Point-set Topology for Masters in pure and applied math.	August - December, 2018.
Multivariable Calculus for Science and technology majors.	March - July, 2018.
Abstract Algebra for Science and technology majors.	August - December, 2017.
Abstract Algebra for Masters in applied math.	August - December, 2017.
Linear Algebra for Science and technology majors.	March - 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.
- Federal University of Goiás:

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.
- 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

- Search committee for Pure and Applied Math major candidates.
Federal University of São Paulo. April 2017 - present.
- Representative in the Graduate Studies and Research Committee.
Federal University of São Paulo. April 2015 - August 2015.
- Organizer of Mathematical Café.
Federal University of São Paulo. February 2015 - 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 for temporary professors.
Federal University of Goiás. February 2014 and May 2014.
- Organizer of II Workshop de Álgebra da UFG-CAC.
Federal University of Goiás. Partially supported by FAPEG. April 2014.
- Organizer of PAPMEM (High School Teachers Perfectioning Program).
Federal University of Goiás. January 2014.
- Organizer of I Workshop de Álgebra da UFG-CAC.
Federal University of Goiás. Partially supported by FAPEG. November 2013.
- 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

- Weyl modules for map Lie superalgebras. Talk.
11th International conference on Clifford Algebras and Their Applications in Mathematical Physics. Ghent University, Belgium. August, 2017.
- Introduction to spectral sequences. Short course.
Summer program Algebra Workshop. UFMG, Brazil. 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.
- Characters of modules for hyper current algebras. Poster presentation.
Symmetries in Mathematics and Physics II. June 2013.
- Flag varieties and representation theory. Short course.
VI Brazilian Mathematical Society Biennial. December 2012.

Last update: October 5, 2018