

Alessandro Rezende de Macedo

Curriculum Vitae

Education

- 2012 – 2017 **Ph.D. in Mathematics**, *University of Texas at Austin*, United States of America.
Supervisor: Jose Felipe Voloch.
- 2010 – 2011 **M.S. in Mathematics**, *Universidade Federal do Rio de Janeiro*, Brazil.
Supervisor: Luciane Quoos Conte.
- 2007 – 2010 **B.S. in Mathematics**, *Universidade Federal do Rio de Janeiro*, Brazil.

Teaching

- Fall 2018 **Differential Equations and Linear Algebra (M427J)**, *University of Texas at Austin*.
Lecturer
- Fall 2018 **Differential Calculus (M408K)**, *University of Texas at Austin*.
Lecturer
- Summer 2018 **Differential and Integral Calculus (M408C)**, *University of Texas at Austin*.
Specialist
- Summer 2018 **Sequences, Series and Multivariable Calculus (M427J)**, *University of Texas at Austin*.
Specialist
- Spring 2018 **Advanced Calculus for Applications II (M427L)**, *University of Texas at Austin*.
Specialist
- Spring 2018 **Differential Equations and Linear Algebra (M427J)**, *University of Texas at Austin*.
Specialist
- Fall 2017 **Differential Equations and Linear Algebra (M427J)**, *University of Texas at Austin*.
Specialist
- Summer 2017 **Differential Calculus (M408C)**, *University of Texas at Austin*.
Teaching Assistant
- Spring 2017 **Differential Calculus (M408K)**, *University of Texas at Austin*.
Assistant Instructor

- Fall 2016 **Advanced Calculus for Applications II (M427L)**, *University of Texas at Austin*.
Teaching Assistant
- Spring 2016 **Differential Calculus (M408K)**, *University of Texas at Austin*.
Assistant Instructor
- Fall 2015 **Advanced Calculus for Applications II (M427L)**, *University of Texas at Austin*.
Teaching Assistant
- Summer 2015 **Advanced Calculus for Applications I (M427K)**, *University of Texas at Austin*.
Teaching Assistant
- Spring 2015 **Advanced Calculus for Applications II (M427L)**, *University of Texas at Austin*.
Teaching Assistant
- Spring 2013 **Integral Calculus (M408L)**, *University of Texas at Austin*.
Teaching Assistant
- Fall 2012 **Integral Calculus (M408L)**, *University of Texas at Austin*.
Teaching Assistant
- Spring 2012 **Linear Algebra I**, *Universidade do Estado do Rio de Janeiro*.
Instructor of Record
- Spring 2012 **Linear Algebra III**, *Universidade do Estado do Rio de Janeiro*.
Instructor of Record
- Spring 2012 **Vector Analysis**, *Universidade do Estado do Rio de Janeiro*.
Instructor of Record
- Fall 2011 **Vector Analysis**, *Universidade do Estado do Rio de Janeiro*.
Instructor of Record
- Spring 2011 **Linear Algebra VIII**, *Universidade do Estado do Rio de Janeiro*.
Instructor of Record
- Spring 2011 **Calculus IV**, *Universidade do Estado do Rio de Janeiro*.
Instructor of Record
- Spring 2009 **Algebra III**, *Universidade Federal do Rio de Janeiro*.
Teaching Assistant
- Fall 2008 **Algebra I**, *Universidade Federal do Rio de Janeiro*.
Teaching Assistant
- Spring 2008 **Algebra I**, *Universidade Federal do Rio de Janeiro*.
Teaching Assistant
- Fall 2007 **Algebra I**, *Universidade Federal do Rio de Janeiro*.
Teaching Assistant

Awards

- 2016 **Frank Gerth III Teaching Excellence Award**. *University of Texas at Austin*.
- 2015 **Senate of College Councils Teaching Assistant of the Semester**. *University of Texas at Austin*.

Recent talks

Department of Mathematics, 2515 Speedway – Austin, TX 78705

☎ +1 (512) 201 3601 • ✉ amacedo@math.utexas.edu

- 2016 **48th West Coast Number Theory Conference**
Differential obstructions to rational points on projective curves.
- 2015 **47th West Coast Number Theory Conference**
Cohomological interpretation for differential descent obstructions.
- 2015 **47th West Coast Number Theory Conference**
Sum of Divisors in Abstract Number Rings. (joint with M. Riley Zeigler)
- 2014 **Junior Number Theory Seminar** (University of Texas at Austin)
The section conjecture and finite descent obstructions.
- 2013 **Junior Number Theory Seminar** (University of Texas at Austin)
Étale fundamental group of curves and an application to the inverse Galois problem.

Service

- 2013 – **Directed Reading Program Mentor** (University of Texas at Austin)
 Mentored undergraduate students in the following topics: infinite Galois theory, algebraic curves and function fields, group cohomology and arithmetic functions on abstract number rings, arithmetic differential equations.