

Giselle Antunes Monteiro

Born in October 24, 1981, São José dos Campos, Brazil

Affiliation: Institute of Mathematics, Academy of Sciences of the Czech Republic

Address: Žitná 25, 115 67 Praha 1, Czech Republic

e-mail: gam@math.cas.cz

Employment

- **Postdoctoral fellow** (July 2013 - present)
Institute of Mathematics, Academy of Sciences of the Czech Republic
- **Visiting Scholar** (October 2012 - June 2013)
Institute of Mathematics, Academy of Sciences of the Czech Republic

Education

- **PhD in Mathematics** (Feb. 14, 2012)
Institute of Mathematical Sciences and Computation, University of São Paulo, Brazil
PhD thesis: *Generalized linear differential equations in a Banach space: continuous dependence on parameters and applications.*
 - **Visiting graduate student**, from June to November 2010, at the Institute of Mathematics, Academy of Sciences of the Czech Republic. Supported by CAPES Foundation (Brazil), under the supervision of Professor Milan Tvrdý.
- **Master of Science in Mathematics** (Aug. 03, 2007)
Institute of Mathematics and Statistics, University of São Paulo, Brazil
Master's dissertation: *Kurzweil integral for Riesz space-valued functions: an introduction* (in Portuguese)
- **Undergraduate studies - Mathematics** (2001-2004)
Federal University of São Carlos, Brazil

Fields of scientific interest

Non-Absolute Integration; Generalized Differential and Integral Equations; Ordinary and Functional Differential Equations; Dynamic Equations on Time Scales.

Publications

Published and accepted papers

1. Z. Halas, G. A. Monteiro, M. Tvrđý, *Emphatic convergence and sequential solutions of generalized linear differential equations*, Mem. Differential Equations Math. Phys., **54** (2011), 27–49.
2. G. A. Monteiro, R. Fernandez, *Kurzweil integral for Riesz space-valued functions: uniform convergence theorem*, Math. Slovaca., **62** (2012), 17–24.
3. G. A. Monteiro, M. Tvrđý, *On Kurzweil-Stieltjes integral in a Banach space*, Math. Bohem., **137** (2012), 365–381.
4. G. A. Monteiro, M. Tvrđý, *Generalized linear differential equations in a Banach space: continuous dependence on a parameter*, Discrete and Continuous Dynamical Systems, **33**(1) (2013), 283–303.
5. G. A. Monteiro, A. Slavík, *Generalized elementary functions*, J. Math. Anal. Appl., **411** (2014), 838–852.
6. G. A. Monteiro, A. Slavík, *Linear measure functional differential equations with infinite delay*, Math. Nachr., **287** (2014), 1363–1382.
7. G. A. Monteiro, M. Tvrđý, *Continuous dependence of solutions of abstract generalized linear differential equations with potential converging uniformly with a weight*, Boundary Value Problems, **71** (2014), 1–18.
8. G. A. Monteiro, *On functions of bounded semivariation*, Real Analysis Exchange (in press).
9. G. A. Monteiro, U. M. Hanung, M. Tvrđý, *Bounded convergence theorem for abstract Kurzweil-Stieltjes integral*, Monatshefte für Mathematik (in press).

Complete papers in conference proceedings

G. A. Monteiro, R. Fernandez, *Uniform convergence theorem for Kurzweil integrable functions - another version*, Seminário Brasileiro de Análise, 66 (2007) (in Portuguese).

Conference talks

- *Uniform convergence theorem for the Kurzweil integral for Riesz space-valued functions*, III Encontro Nacional de Análise Matemática e Aplicações, Maringá, Brazil, November 2009.
- *Generalized linear differential equations in a Banach space: Continuous dependence on a parameter*, Colloquium on Differential Equations and Integration Theory, Křtiny, Czech Republic, October 2010.

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- *Generalized linear differential equations in a Banach space: Continuous dependence on a parameter*, Summer Meeting on Differential Equations - 2011 Chapter, São Carlos/SP, Brazil, February 2011.
 - *On Kurzweil-Stieltjes integral in a Banach space*, Summer Symposium in Real Analysis XXXV, Budapest, Hungary, June 2011.
 - *Generalized linear differential equations in a Banach space: Continuous dependence on a parameter*, Colloquium on Differential Equations: Stochastic and Deterministic, Prague, Czech Republic, June 2011.
 - *Continuous dependence result for generalized linear differential equation in Banach space: application to dynamic equations on time scales*, International Conference on Differential and Difference Equations and Applications, Ponta Delgada/Azores, Portugal, July 2011.
 - *A continuous dependence result for generalized linear differential equation: application on FDEs*, Summer Meeting on Differential Equations - 2012 Chapter, São Carlos/SP, Brazil, February 2012.
 - *Continuous dependence of solutions of generalized linear differential equation on a parameter*, Equadiff 13, Prague, Czech Republic, August 2013.
 - *Continuous dependence of solutions on a parameter of abstract generalized linear differential equations (Opial type results)*, Workshop on Differential Equations 2014, Malá Morávka, March 2014.
 - *Abstract generalized linear differential equations: the continuous dependence problem revisited*, Conference on Differential and Difference Equations and Applications, Jasná, Slovakia, June 2014.
 - *Functions of bounded semivariation: a survey*, Summer Symposium in Real Analysis XXXVIII, Prague, Czech Republic, July 2014.
 - *Remarks on continuous dependence of solution of abstract generalized differential equations*, International Conference on Differential and Difference Equations and Applications, Amadora, Portugal, May 2015.

Invited lectures (seminars)

- *Generalized linear differential equations in a Banach space: continuous dependence on a parameter*, Seminar on Boundary Value Problem, Academy of Sciences of the Czech Republic, Brno, November 2010.
- *Continuous dependence for generalized linear differential equations and application to time scales*, Seminar on Current Problems in Numerical Analysis, Academy of Sciences of the Czech Republic, Prague, March 2013.
- *Continuous dependence of solutions of generalized linear differential equations on a parameter*, Project A-Math-Net, Palacký University, Olomouc, March 2013.

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- *Continuous dependence result for linear measure FDE with infinite delay*, Seminar on Qualitative Theory of Ordinary and Functional Differential Equations, Academy of Sciences of the Czech Republic, Brno, April 2013.
 - *Generalized linear differential equations: remarks on continuous dependence on parameters*, Mini-school on Differential Equations, Academy of Sciences of the Czech Republic, Brno, May 2013.
 - *On semivariation (parts I and II)*, Project A-Math-Net, Letovice, September 2013.
 - *New convergence theorem for the abstract Kurzweil-Stieltjes integral*, Nonlinear Seminar of the Department of Optimization and Control Theory, Adam Mickiewicz University, Poznań, Poland, April 2015.

Scientific visits

April 13-17, 2015 - Faculty of Mathematics and Computer Science, Adam Mickiewicz University, Poznań, Poland. Host: Daria Bugajewska.

Co-organization of conferences

- III Workshop on Differential Equations, São Carlos/SP, Brazil, February 02-04, 2011
(member of organizing committee in the session on Impulsive and Functional Diff. Eq.).
- Summer Meeting on Differential Equations - 2012 Chapter, São Carlos/SP, Brazil, February, 2012
(member of organizing committee in the special session on Ordinary and Functional Diff. Eq.).

Teaching experience

- **Temporary Professor** - Teaching Position (August 2007 - December 2008)
Mathematical Department, Federal University of São Carlos, Brazil
(linear algebra, differential and integral calculus, analytic geometry)
- **Cooperator** - Teaching (January - February 2008)
Institute of Mathematics and Statistics, University of São Paulo, Brazil
(Summer course in "Metric spaces")

Other activities

Reviewer for Zentralblatt MATH database

Referee for Abstract and Applied Analysis, Boundary Value Problems.