

Curriculum Vitæ

Suzy S. MADDAH

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Personal Information

Birth date	08.03.1988
Citizenship	Lebanese
Gender	Female

Education

Jan 2012 – Sep 2015	Ph.D. in Mathematics and applied mathematics Defense expected within the third week of september 2015
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- Topics:
 - Completely integrable Pfaffian systems
 - Singularly-perturbed differential systems

- Affiliations:
 - University of Limoges
XLIM Research Institute, DMI
Computer Algebra Team
 - Ecole Doctorale des Sciences et Technologies
Lebanese University, Beirut, Lebanon

- Advisor: Prof. Moulay A. Barkatou (XLIM)
Co-Advisor: Dr. Hassan Abbas (Lebanese University)

Sep 2008 – Jul 2010	Master of Research in Mathematics Partial differential equations and numerical analysis Ecole Doctorale des Sciences et de Technologie Lebanese University, Beirut, Lebanon
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Sep 2005 – Jul 2008	Bachelor of Pure Mathematics Faculty of Sciences Lebanese University, Beirut, Lebanon
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Publications

Published papers

Proceedings of international conferences (with reviewing process):

- M.A. Barkatou, S.S. Maddah (2015). Removing Apparent Singularities of Systems of Linear Differential Equations with Rational Function Coefficients. To appear in *Proceedings of the 40th International Symposium on Symbolic and Algebraic Computation*, ACM Press.
- H. Abbas, M.A. Barkatou, S.S. Maddah (2014). On the Reduction of Singularly-Perturbed Linear Differential Systems. In *Proceedings of the 39th International Symposium on Symbolic and Algebraic Computation*, ACM Press, pp. 320-327.
- H. Abbas, M.A. Barkatou, S.S. Maddah (2014). Formal Solutions of a Class of Pfaffian Systems in Two Variables. In *Proceedings of the 39th International Symposium on Symbolic and Algebraic Computation*, ACM Press, pp. 312-319.

Submitted papers

- M.A. Barkatou, S.S. Maddah (2015). Formal Solutions of Singularly-Perturbed Linear Differential Systems (50 pages). Submitted to *Journal of Advances in Applied Mathematics*, Elsevier.

In progress

- M.A. Barkatou, M. Jaroschek, S.S. Maddah (2015). Formal Solutions of a Class of Pfaffian Systems in Several Variables (25 pages).

Software

Maple

- AppSing: Package for removing apparent singularities of systems of linear differential equations with rational function coefficients.
- ParamInt: Package for symbolic resolution of singularly-perturbed linear systems of differential equations, prototype implementation.
- PfaffInt: Package for symbolic resolution of completely integrable pfaffian systems with normal crossings, prototype implementation.

Mathemagix

- Lindalg: Package for symbolic resolution of linear systems of differential equations with singularities. Developed within Google Summer of Code 2014.

Talks

Conferences

- 11-12/12/2014: Integrability days, XLIM, Limoges University, France
- 25/10/2014: Doctoral students workshop, “A Peek into a Black Hole”, XLIM, University of limoges, France
- 23-25/07/2014: The 39th International Symposium on Symbolic and Algebraic Computation (ISSAC) , Kobe, Japan
- 9-12,07,2014: The 20th International Conference on Applications of Computer Algebra (ACA), New York, U.S.A.
- 1-2/04/2014: Functional Equations in Limoges (FELIM), XLIM, Limoges, France
- 26-27/05/2014: Structured Matrix Days (SMD), XLIM, Limoges, France
- 4-8/11/2014: Joint Presentation at the 7th Week of Math-Enterprises, Limoges, France
- 2-6/07/2013: The 19th International Conference on Applications of Computer Algebra (ACA), Malaga, Spain
- 13-17/05/2013: Journées Nationales de Calcul Formel (JNCF), CIRM, Luminy, France

Seminars

- 14/07/2014: Kolchin Seminar, Graduate Center, City University of New York, U.S.A.
- 12/05/2014: SpecFun Seminar, INRIA Saclay Ile-de-France
- 17/06/2014: Functional Equations Seminar, IRMA, University of Strasbourg, France
- 11/04/2013: Computer Algebra Seminar, DMI- XLIM, University of Limoges
- 14/12/2012: Mathematics Seminar, Laboratory of Mathematics, Beirut, Lebanese University

Posters

- 06/06/2013: Doctoral students forum, Lebanese University, Beirut, Lebanon

Conference co-organisation

23-25/03/2015: Functional Equational in LIMoges (FELIM), XLIM, Limoges, France

Teaching

**Dec 2014 –
Aug 2015**

Teaching and Research Assistant (ATER)

Department of Mathematics and Computer Science
University of Limoges
Teaching language: French

Course	Semester	TD	TP
Asymptotic analysis and perturbation methods	Master ACSYON	10 h	
Computer algebra	M1 Math.	9 h	12 h
Artificial intelligence	M1 Comp. Sci.	9 h	
Object-oriented analysis and design	S6		30 h
Computer architecture	S4/S6	25.5 h	1.5 h
Logic programming with Prolog	S4		18 h
Info 2	S2	27 h	15 h
Info advanced	S2	7.5 h	12 h

**Sep 2010 –
Dec 2012**

Lecturer/ Teaching Assistant

Beirut Arab University, Beirut, Lebanon
Faculty of Engineering
Physics and Mathematics Department
Teaching language: English

Courses at undergraduate level, \approx 200h TD and 50h lecture:
Linear algebra, calculus, differential equations, vector analysis,
complex analysis, Matlab and numerical analysis.

Qualifications

**Programm-
ing Experi-
ence**

C, C++, Java, Mathemagix, Matlab, Maple

Languages

English (Fluent in reading, writing, and speaking)
French (Good)
Arabic (Native language)

Activities

June 2011	Course on Social media Offered by SMEX, Lebanon
Mar - June 2010	Training at the Academy for Civic Activism; USAID's Office of Transition Initiatives (OTI); Theme: Creation of nongovernmental organizations; Workshops on conflict resolution, project design, writing proposals, funding resources, human resources management, advocacy; Beirut, Lebanon
5-16 July 2010	Human rights Workshop; Organised by COSV(Italy), PPM and KAFA (Lebanon); Funded by the European Union; Focus on access to scientific knowledge in developing countries; Beirut, Lebanon
Jul - Aug 2010	Activities with Lebanese Society for History of Science
2006 - 2010	Co-organising the Science and Philosophy Café with Zico House (Lebanon) and local clubs at the lebanese university

References

- **Prof. Moulay A. Barkatou**
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Fax: +33 (5) 55-45-73-22
Email: moulay.barkatou@unilim.fr

- **Dr. Hassane Abbas**
Lebanese University, Faculty of Sciences I, Beirut- Lebanon
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- **Further references are available upon request.**