Lama TARSISSI

Contact

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Languages

Arabe (maternal)
Français (bilingue)
English (bilingual)
Italiano (principiante)

Programming

Matlab, Scilab,
Mathematica, Python,
Sage, Java, HTML,
CSS, C++, VTK,
Git

Nationality

French

Supervision

TFJM22020
Member of jury at
"Tournoi français des
jeunes
mathématiciens et
mathématiciennes"
Paris-Est.
Giovanni PULTA (2018)
Master student at
universita di siena
Dipartimento di
Ingegneria
dell'Informazione e
Scienze Matematiche

Reviewer

TCS-Words 2017
TCS

Formation

2017	**PHD** in Mathematics and Computer Science	University Savoie Mont Blanc
	Jury: Advisor : Laurent VUILLON	
	Reviewer : Michel RIGO	
	Reviewer : Jean-Marc FÉDOU	
	Examinator : Jean-Pierre BOREL (President)	
	Examinator : Simone RINALDI	
	Examinator : Julien CASSAIGNE	
2012	**Master** in Fundamental Mathematics (ranked: First)	University Saint Esprit Kaslik
2008	**Bachelor+M1** in Pure Mathematics (ranked: First)	Lebanese University

Professional Experience (Research)

2020–present	**Sorbonne University Abu Dhabi**	Abu Dhabi, United Arab Emirates
	Invited Professor	
	Mathematics and computer science at the Physics department	
2018–2020	**ESIEE, LIGM, LAMA**	Champs sur Marne, France
	Post-doc	
	Combinatorics on words, digital convexity, discrete geometry	
2017–2018	**Laboratoire I3S, Sophia Antipolis**	Nice, France
	Researcher+ ATER in computer sciences	
	Combinatorics on words, algorithms, digital convexity.	
2014–2017	**LAMA, Université Savoie Mont Blanc**	Technolac, France
	Researcher	
	Combinatorics on words, tomography, discrete geometry, theory number.	

Professional Experience (Teaching)

University level

2020	**Lecturer in Mathematics** 56h Linear Algebra, and Group Theory	University Gustave Eiffel
2020	**Lecturer in Computer sciences** 20h Visualisation in 3D	ESIEE Paris
2019	**Lecturer in Mathematics** 36h Linear Algebra	ESIEE Paris
2019	**Lecturer in Computer sciences** 50h Java introduction and Python	ESIEE Paris
2018	**Lecturer in Computer Sciences** 144h Java introduction, Python, Algorithms and Startegies of games	École polytechnique, Université de Nice
2018	**Lecturer in Mathematics** 40h Vectorial analysis	École polytechnique, Université de Nice
2015–2017	**Lecturer in Mathematics** 128h Euclidean space, Statistics, Probability, Differential equations, Analysis	University Savoie Mont Blanc

High school level

2010–2014   **Mathematics teacher** High school level
Workshops: Pedagogical, student follow-up,
How to make QCM and prepare exams.   Frères Lassalliens-Lebanon

2010–2011   **Mathematics teacher and coordinator** High school and (Bac+2) level   Norton technical Institute-Lebanon

2008–2010   **Mathematics teacher** High school level
Workshops: Pedagogical, How to make QCM.   AL-MAWAKEB school-Dubai

2007–2008   **Mathematics teacher** High school level   Norton technical Institute-Lebanon

Professional Training

2012–2014   **IET (Interactive Educational Technology), CNRS**   Beirut-Lebanon
Trainer software for the ActivInspire
(.) *CNRS*
(.) *Universities*
(.) *Schools*
(.) *Companies*

Tutoring

2005–2020   **Mathematics tutor** independently for high school and university levels

2016   **Mathematics Tutor** High school and university levels   Acadomia

Awards/competitive scholarships

2019   **Best Early Stage Researcher Presentation Award**
Istanbul-Turkey

2019   **Scholarship for research cooperation during a week stay**
University of Liège-Belgium

2019   **Scholarship to attend Women in Sage school**
Archanes-Greece

2018-2020   **Scholarship for postdoctoral research-Labex Bézout**
University Paris Est Marne La Vallée-France

2018   **Scholarship for research cooperation during a month stay**
University of Florence-Italy

2018   **Qualification in pure mathematics.**
CNU-25, $nu°18225311494$

2017   **Label RES, Recherche et Enseignement Supérieur.**
University of Grenobles Alpes-France

2017   **Scholarship to attend mathematical semester**
CRM-University of Montréal

2017   **Scholarship for research cooperation during two weeks stay**
University of Montréal-Canada

2017   **Scholarship to attend Women in Sage school**
Ris Orangis-Paris

2016   **Scholarship to attend Algorithmic and Enumerative Combinatorics summer school**
Hagenberg-Austria

Interest

paraprofessional:
History
Cultural visits
Humanity activities

personal:
Latino dance
Tennis
Basket ball

Networks

active:
1) Member of the COMEDIC project (Convergent Metrics for Digital Calculus) ANR15- CE40-0006.
2) Ambassador of CWM (committee for woman in Mathematics).

previous:
1) Member at the conseil de l'école docorale EDMSTII, Joseph Fourrier, Grenoble-France.
2)Representative of the PHD students at the laboratory LAMA, University Savoie Mont Blanc, Technolac-France.

2015	**Ministerial scholarship for a PHD in Algebraic combinatorics**
	University of Savoie Mont Blanc-France
2010-2012	**Scholarship obtained for being classified as first ranked at the university**
	Faculty of sciences- University of Kaslik-Lebanon

Publications

Journals

Dulio, P., Frosini, A., Rinaldi, S., **Tarsissi, L.**, Vuillon, L. 2021. "Further steps on the reconstruction of convex polyominoes from orthogonal projections". Journal of Combinatorial Optimization, Springer Verla - 2021. `https://doi.org/10.1007/s10878-021-00751-z`.
(authors are in alphabetic order)

Frosini, A., Kocay, W., Palma, G., **Tarsissi, L.**. 2020. "On Null 3-Hypergraphs". Discrete Applied Mathematics - 2020. `https://doi.org/10.1016/j.dam.2020.10.020`.
(authors are in alphabetic order)

International Conferences

Frosini, A., **Tarsissi, L.**. - 2020. The characterization of the minimal paths in the Christoffel tree according to a second-order balancedness. Development in Language Theory (DLT) - Tampa, USA. (hal-02495529) (LNCS, volume 12086) - `https://doi.org/10.1007/978-3-030-48516-0_24` (authors are in alphabetic order)

Tarsissi, L., Coeujolly, D., Kenmochi, Y., Romon, P. - 2019. Convexity Preserving Contraction of Digital Sets. Asian Conference on Pattern Recognition (ACPR) - Auckland, New-Zealand. (hal-02315084) (LNCS, volume 12047) `https://doi.org/10.1007/978-3-030-41299-9_48`

Tarsissi, L., Vuillon, L. 2019. Second order balance property on Christoffel words. Mathematical Aspects of Computer and Information Sciences (MACIS) - Istanbul-Turkey. (hal-02433984) (LNCS, volume 11989) `https://doi.org/10.1007/978-3-030-43120-4_23` (authors are in alphabetic order)

Dulio, P., Frosini, A. Rinaldi, S. **Tarsissi, L.**, Vuillon, L. 2017. First Steps in the Algorithmic Reconstruction of Digital Convex Sets. WORDS - Montréal-Canada. (LNCS volume 10432) `https://doi.org/10.1007/978-3-319-66396-8_16`

(authors are in alphabetic order)

National Conferences
Borel, J-P., **Tarsissi, L.**, Vuillon, L. 2018. Inflation of Digital Convex Polyominoes. Journées montoises d'informatique théorique - Bordeaux-France. (hal-02042696) `https://jm2018.sciencesconf.org/data/pages/jm2018_abstracts.pdf#page=41`
(authors are in alphabetic order)

Schools

2019	**Women in Sage.**
	Archanes-Greece
2017	**Thematic semester in Algebra and Combinatorics on words**
	Montréal-Canada
2017	**Women in Sage.**
	Ris-Orangis-France
2016	**3rd Algorithmic and Enumerative Combinatorics Summer School**
	Hagenberg-Austria
2016	**Transversal aspect of Tilings.**
	Île d'Oléron-France

2016 **École des jeunes chercheurs en informatiques et mathématiques (EJCIM)**
Strasbourg-France

2015 **École des jeunes chercheurs en informatiques et mathématiques (EJCIM)**
Orléans-France

Presentations

Conferences:

2021 **The 25th International Conference on Developments in Language Theory (DLT 2021)** Porto-Portugal
Oral presentation

2021 **Journée GT GDMM** Nancy-France
Online oral presentation

2019 **The 5th Asian Conference on Pattern Recognition (ACPR)** Auckland-Newzealand
Poster presentation

2019 **Mathemetic aspects of computer and information sciences(MACIS)** Istanbul-Turkey
Oral presentation

2019 **Journée GT-GDMM** Marseille-France
Oral presentation

2019 **Meeting on Tomography and Applications Discrete Tomography and Image Reconstruction**
Milano-Italy
Oral presentation

2018 **Journées Montoises** Bordeaux-France
Oral presentation

2018 **Journée MDSC** Nice-France
Oral presentation

2018 **Meeting on Tomography and Applications Discrete Tomography and Image Reconstruction**
Milano-Italy
Oral presentation

2017 **Words 2017** Montréal-Canada
Oral presentation

2017 **Meeting on Tomography and Applications Discrete Tomography and Image Reconstruction**
Milano-Italy
Oral presentation

2016 **Journées Montoises** Liège-Belgium
Oral presentation

2016 **3rd Algorithmic and Enumerative Combinatorics** Hagenberg-Austria
Poster presentation

2015 **Interaction** Grenoble-France
Oral presentation

Seminars:

2021	**Emirati women support for the nation from establishment to achievement 2021** Abu Dhabi-UAE
2021	**Women in Combinatorics** Concordia-Canada
2019	**Seminar at University of Firenze** Florence-Italy
2019	**Seminar at University of Liège** Liège-Belgium
2019	**Seminar at LIRIF, Paris diderot** Paris-France
2018	**Seminar at LIGM, Paris Marne-la-vallée** Paris-France
2018	**Seminar at University of Firenze** Florence-Italy
2018	**Seminar at Laboratory I3S** Sophia Antipolis-France
2017	**Seminar at Laboratory LAMA, LIMD team** Chambéry-France
2016	**Seminar at Laboratory LAMA,** Chambéry-France
2015	**Doctoral Seminar at Laboratory LAMA,** Chambéry-France

Organization

2021	**International Women in Mathematics Day 2021** Sorbonne university Abu Dhabi
2020	**14th Edition of the "Meeting on Tomography and Applications** Mathematics Department of Politecnico di Milano
2019	**13th Edition of the "Meeting on Tomography and Applications** Mathematics Department of Politecnico di Milano
2019	**DGCI, Digital geometry for computer imagery** ESIEE-Paris,France
2016	**5th Journée des doctorants de l'école doctorale EDMSTII.** Grenoble,France
2016	**Journée des doctorants au SIF(société informatiques de France).** Paris,France
2015	**Colloque international à la mémoire de Pierre Liardet, Number theoryNumeration system and ergodic theory** LAMA-Technolac,France

Other experiences

2013–2014	**Scout of Lebanon.**	Tripoli-Lebanon
2003–2005	**Youth and red cross.**	Tripoli-Lebanon
2002–2005	**Scout of Lebanon.**	Tripoli-Lebanon
2003–2004	**Director of a social association**	Tripoli-Lebanon