

FIRAS BEN RAMDHANE

DIPLOMAS

- **2022/2023: PHD DEGREE IN MATHEMATICS FROM AIX-MARSEILLE UNIVERSITY, FRANCE.**
- **2022/2023: PHD DEGREE IN MATHEMATICS FROM THE UNIVERSITY OF SFAX, TUNISIA:**
MENTION: TRÈS BIEN AVEC FÉLICITATION DE JURY.
- **17/10/2019: MASTER'S DEGREE IN FUNDAMENTAL MATHEMATICS FROM THE UNIVERSITY OF SFAX, TUNISIA:** MENTION: BIEN, MAJOR DE PROMOTION
- **2016/2017: BACHELOR'S DEGREE IN FUNDAMENTAL MATHEMATICS FROM THE UNIVERSITY OF SFAX, TUNISIA:** MENTION: BIEN, MAJOR DE PROMOTION.
- **2012/2013: BACCALAUREAT EIN MATHEMATICS.**

TEACHING EXPERIENCE

- **2023/2024: Researcher teacher in Mathematics (ATER) at Aix-Marseille university.**
- **2023/2024: Teacher at the private engineering school CESI of Aix-en-Provence.**
- **2022/2023: Researcher teacher in Mathematics (ATER) at Aix-Marseille university (Polytechnique Saint-Jérôme).**
- **2021/2022: Substitute teacher in Aix-Marseille university.**
- **2021/2022: Private lessons in mathematics for high school students with "complétude".**
- **2020/2021: Substitute teacher in mathematics at the university of Sfax in Tunisia.**
- **2020/2021: ADDICTEST, TUNISIA: (PREPATION FOR THE AMERICAIN TEST SAT).**

THESIS TITLE AND PUBLICATIONS

- PHD Title: « Symbolic dynamical systems in topological spaces defined via edit distances » supervised by: Serge Troubetzkoy (Professor AMU) Pierre Guillon (CNRS, AMU) et Tarek Sellami (associate professor, Université de Sfax).
- Dill maps in the Weyl-like space associated to the edit-distance, Firas Ben Ramdhane and Pierre Guillon: (accepted as a conference paper in Automata 2023).
- Cellular automata and substitutions in topological spaces defined via edit distances, Firas Ben Ramdhane, Pierre Guillon, 2023, Natural computing journal, Springer.
- Generic behavior of Besicovitch- and Weyl-like pseudo-metrics, Firas Ben Ramdhane, Pierre Guillon, and Serge Troubetzkoy, (preprint 2023).
- Cellular automata and substitutions in the edit-distance space, Firas Ben Ramdhane: (accepted as a conference paper in Automata and WAN 2021).

PARTICIPATIONS

- Dynamical systems conference, Avignon-Marseille 2023.
- SDA2 annual days, Institute de Mathematics de Toulouse, 2023, Toulouse.
- Workshop Algeria-Tunisia of Symbolic dynamics, 2022, Bejaia, Algeria.
- Young researchers' school in mathematics and informatics, 2022, Nice.
- Automata and WAN 2021 in Marseille, France.
- Algebraic and Combinatorial Invariants of Sub-shifts and Tilings (11-15 January 2020).

- Generalized Interval Exchange Transformations, Simplicial Systems, and continued fractions: dynamics (26-30 October 2020).
- Master courses in symbolic dynamical systems at Aix-Marseille university, 2020.
- Young researchers' school in mathematics and informatics, 2019, Marseille.
- Cross-Cultural Communication, 2018, Marburg, Germany.
- First year of the Research master's degree in mathematics at Phillips-Marburg University in Germany under the 'ERASMUS' program.

TALKS

- **INTERNATIONAL WORKSHOP ON CELLULAR AUTOMATA AND DISCRETE COMPLEX SYSTEMS (AUTOMATA 2023, TRIESTE, ITALY)**
Dill maps in the Weyl-like space defined via edit distances.
- **LA JOURNÉE DE SYSTÈMES DYNAMIQUES AVIGNON-MARSEILLE 2023:**
Symbolic dynamical systems in topological spaces defined via edit distances.
- **YOUNG RESEARCHERS' SCHOOL IN MATHEMATICS AND INFORMATICS, 2022, NICE, ITALY:**
Dill maps in topological spaces defined via edit distances.
- **WORKSHOP ALGERIA-TUNISIA OF SYMBOLIC DYNAMICS, 2022, BEJAIA, ALGERIA:**
Cellular automata and substitutions in topological spaces defined via edit distances.
- **27TH INTERNATIONAL WORKSHOP ON CELLULAR AUTOMATA AND DISCRETE COMPLEX SYSTEMS (AUTOMATA 2021, 12–14 JUILLET 2021) À MARSEILLE, FRANCE:**
Cellular automata and substitutions in the edit-distance space.
- **ERNEST SEMINAR IN MARSEILLE:** Dill maps over Besicovitch and Weyl spaces.
- **I2M PHD SEMINAR (LUMINY) IN MARSEILLE, FRANCE:**
Cellular automata and substitutions over Besicovitch and Weyl spaces.
- **I2M PHD SEMINAR (SAINT CHARLES) IN MARSEILLE, FRANCE:** Generic behavior of Besicovitch- and Weyl-like pseudo-metrics.

LANGUES

- **Arabic.**
- **French.**
- **English.**
- **Germain.**

INFORMATICS SKILLS

- **Programming: Python, C, C++, Matlab, R.**
- **Microsoft office: Word, Power Point, Excel...**
- **Latex, ACML.**