

# Rhaima Mohamed

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## Academic Qualification

2012—2017: **Ph.D** , in Mathematics, joint supervision between the research center "Vito Volterra" at Tor Vergata University, Rome-Italy and the faculty of Sciences of Tunis at the University of Tunis El Manar, Tunis-Tunisia (diploma - April 2017).

- **Supervisors:** Luigi Accardi and Abdessatar Barhoumi.
- **Speciality:** Quantum Probability.
- **Title :** *Classification of Probability Measures through their canonically associated Interacting Fock Spaces.*

2011—2012: **Master of Applied Mathematics**, *University of Tunis El Manar*, Stochastic Analysis And its Applications

2005—2007: **Bachelor of Science in Mathematics**, *University of Gabes*, Tunisia.

2003—2005: **General Academic Studies Degree** , *University of Gabes*, Tunisia.  
**Speciality:** Mathematics and Computer Sciences.

2003—2005: **Baccalaureate in Mathematics** , *Secondary School of Ghannouche*, Tunisia.

## Professional Experience

2017 - Today: Assistant Professor at the Higher Institute of Applied Studies in Humanities of Mahdia, University of Monastir, Tunisia.

2015 - 2017: Assistant Professor at the Engineering Preparatory Institute of Nabeul, Carthage University, Tunisia.

## University teaching

- Probability theory
- Algebra
- Real Analysis
- Numerical Analysis

## Publications

1. Luigi Accardi, Abdessatar Barhoumi, Mohamed Rhaima (2016): *An information complexity index for probability measures on  $R$  with all moments*. Infinite Dimensional Analysis, Quantum Probability and Related Topics Volume 19, Issue 03.
2. Luigi Accardi, Abdessatar Barhoumi, Yun Gang Lu, Mohamed Rhaima (2016): *Lie algebras canonically associated to probability measures on  $R$  with all moments*. Lie Theory and its Applications in Physics, Volume 191 of the Springer Proceeding series in Mathematics and Statistics, 3–21.
3. Luigi Accardi, Abdessatar Barhoumi, Mohamed Rhaima (2017): *Jacobi sequences of squares of random variables*. Stochastics, Volume 89, Issue 6-7.
4. Luigi Accardi, Abdessatar Barhoumi, Mohamed Rhaima (2018): *Jacobi sequences of powers of random variables*. To appear in Infinite Dimensional Analysis, Quantum Probability and Related Topics.

## Research Areas

- Probability Theory
- Stochastic Processes and Modelling
- Quantum Probability
- Orthogonal Polynomials Theory

## Research Visits

**Tor Vergata University, Rome Italy:** Several trips of one month to three months every year since 2013.

## Conferences

1. Participation at the International conference on Stochastic Analysis and Application, October 10-15, 2011 Hammamet, Tunisia.
2. Participation at the Conference of the Tunisian Mathematical Society, March 16-19, 2015 Sousse, Tunisia.
3. Talk on he Conference of the Tunisian Mathematical Society, March 21-24, 2016 Hammamet, Tunisia.
4. Talk at the School and Workshop on "Orthogonal polynomials, Interacting Fock Spaces, Quantum Markov Semigroups and related fields", October 17-21, 2016, Hammamet, Tunisia.
5. Participation at the School on Spectral Theory of Graphs and Varieties, November 7-19, 2016 Kairouan, Tunisia.
6. Talk on the workshop on Orthogonal polynomials and Operators Theory, December 18-21, 2017 Sousse, Tunisia.

## Computer Skills

- **OS** : Windows, DOS
- **Scientific** : Matlab, Maple
- **Programming** : C/ C++, Pascal
- **Typography** : LATEX, Microsoft Office

## Languages

- **Arabic** : Mother language
- **French** : Fluent
- **English** : Good

## Interests

- Football
- Reading
- Instrumental music.