

# Najmeddine Attia

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## Curriculum Vitae

### Titles and Degrees

- 2009–2012 **PhD of Mathematics**, *University of Paris-Nord 13 and INRIA Rocquencourt*, "Asymptotic behavior of branching random walk in  $\mathbb{R}^d$  and Hausdorff dimension", Director : Pr. Julien Barral..
- 2007–2009 **Diploma of Advanced Studies of Mathematics**, *Faculty of Sciences of Monastir and Paris-INRIA Rocquencourt*, "Analyse multifractale des fonctions vectorielles", Director : Pr. Fathi ben Nasr.
- 2004–2007 **Diploma of Mathematics**, *Faculty of Sciences of Monastir*, major of promotion.

### Professional experience

- 2013–2018 **Assistant Professor**, *Faculty of Sciences of Monastir-Tunisia*.
- 2012–2013 **Assistant**, *University Paris Sud (Orsay)-France*.
- 2010–2012 **Assistant**, *University Pierre et Marie Curie (Paris 6)-France*.

### Supervision of master

- 2018–2019 **"Sur la notion des dimensions "**, *Project of Master of Mathematics of Ridha Misaoui*, Faculty of Sciences of Monastir.
- 2018–2019 **"Autour du théorème de Besicovitch-Eggleston "**, *Project of Master of Mathematics of Safwen el Hog*, Faculty of Sciences of Monastir.
- 2017–2018 **"Processus de Galton-Watson"**, *Project of Master of Mathematics of Lajmi Khaled, Gabsi Mouhanned and Mathlouthi Dorsaf*, Faculty of Sciences of Monastir.
- 2017–2018 **"Mesures et dimension de Hausdorff "**, *Project of Master of Mathematics of Lahmer Raja, Misaoui Hilel and Soh Tchinde Denis*, Faculty of Sciences of Monastir.
- 2013–2014 **"Formalisme multifractal et principe de grandes déviations"**, *Master of Mathematics of Wafa Chaouch*, Faculty of Sciences of Monastir.
- 2013–2014 **"Analyse multifractale de marches aléatoires de branchement"**, *Master of Mathematics of Elferjani Imen*, Faculty of Sciences of Monastir.

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## Co-supervision of Thesis

In progress **"Problème de transmission EDP avec interface fractale"**, *Thesis of Mathematics of Said Rabeab*, Faculty of Sciences of Monastir.

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## Books

- 2018 N. Attia, L'INDISPENSABLE DE PROBABILITÉS EN PRÉPAS, accepted for publication in "Centre de publication universitaire (CPU)", Tunisie.
- 2019 N. Attia, L'ANALYSE EN MATHÉMATIQUES POUR LES ÉLÈVES DE PRÉPA, accepted for publication in CPU.
- 2019 N. Attia, PROBABILITÉS EN LICENCE, submitted for publication in CPU.

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## Papers

- 2019 N. Attia, ON THE MULTIFRACTAL ANALYSIS OF COVERING NUMBER ON THE GALTON-WATSON TREE, accepted for publication in Applied Probability trust.
- 2018 N. Attia, ON THE EXACT DIMENSION OF MANDELBROT MEASURE, accepted for publication in Proba. Math. statis.
- 2018 N. Attia and B. Selmi REGULARITIES OF MULTIFRACTAL HEWITT-STROMBERG MEASURES, accepted for publication in Comm. Korean Math. Soc.
- 2018 N. Attia, RELATIVE MULTIFRACTAL SPECTRUM, Comm. Korean Math. Soc. **33**, 459-471.
- 2017 N. Attia et al, SOME DENSITY RESULTS OF RELATIVE MULTIFRACTAL ANALYSIS, Chaos, Solitons & Fractals, **103**, 1-11
- 2014 N. Attia, ON THE MULTIFRACTAL ANALYSIS OF THE BRANCHING RANDOM WALK IN  $R^d$ , J. Theor. Probab., **27**, 1329-1349
- 2014 N. Attia and J. Barral, HAUSDORFF AND PACKING SPECTRA, LARGE DEVIATIONS AND FREE ENERGY FOR BRANCHING RANDOM WALKS IN  $R^d$ , Comm. Math. Phys, **331**, 139-187.
- 2012 N. Attia et al, LARGE DEVIATIONS ESTIMATES FOR THE MULTISCALES ANALYSIS OF HEART RATE VARIABILITY, Physica A, **391**, 5658-5671.