

JEDIDI Wissem
Birth: January 9, 1970
Married, 3 childs

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Education

- June 2014: Accreditation to Supervise Research (HDR), University Tunis el Manar.
- Nov 2000-Sep 2001: Postdoctoral fellowship, University of Johannes Gutenberg, Mainz-Germany.
- Jul 2000: Qualified for the position of assistant-professor in 2000 by the National Council of the French Universities. <http://admi.net/jo/20000722/MENP0001377K.html>
- Jan 2000: PhD in Mathematics (Probability and Statistics), University of Paris 6.
- Laboratory: LPMA (Laboratoire de Probabilités et Modèles Aléatoires), Paris 6.
 - Advisor: Jean JACOD
 - Title: *Regularity and Asymptotic Properties of Statistical Models Associated to Some Stochastic Processes.*
 - Print: <http://cat.inist.fr/?aModele=afficheN&cpsidt=14196782>
- Jun 1995: Master's degree of mathematics (Probability and applications), University of Paris 6.
- Jun 1993: Bachelor's degree in Fundamental Mathematics, Faculty of Sciences of Tunis.

Positions

- Sep. 2014-Today: Associate-professor, King Saud University, Riyadh and Faculty of Sciences of Tunis.
- Sep. 2012-Oct 2014: Assistant-professor, King Saud University, Riyadh.
- Sep. 2004-Aug 2012: Assistant-professor, Faculty of Sciences of Tunis.
- Jul 2003-Jun 2004: Senior researcher at the GRETI group (Internet Data Traffic Analysis and Tools Development, University of Moncton-Canada).
- Jan 2003-Jun 2003: Assistant-professor, Faculty of Sciences of Tunis.
- Sep 2001-Dec 2002: Assistant-professor, Faculty of Sciences of Sfax.
- Nov 2000-Sep 2001: Postdoctoral fellowship, Unive. Johannes Gutenberg, Mainz-Germany, invited by Pr. Reinhard HÖPFNER. <http://www2.mathematik.uni-mainz.de/~hoepfner/eu-gruppe.html>
- Sep 1998-Jul 2000: Assistant-professor (nontenure track), University of Paris 6.
- Sep 1995-Jul 1998: Lecturer, University of Paris 6.

Working Groups

Sep 2004-Today: *Probability and Pot. Theo.* group of the Fac. of Sc. of Tunis, directed par M. HMISSI.

Sep 2001-Dec 2002: *Statistics and Probability* group, Fac. of Sc. of Sfax, directed par A. HASSAÏRI.

Dec 2000-Sep 2001: *Probability and Statistics* group, univ. of Mainz, directed par R. HOËPFNER.

Sep 1995 - Nov 2000: *Statistics of processes* group, LPMA of Paris 6, directed par J. JACOD.

Visiting Professorships

Institute of math. of Wroclaw: invited by Pr. Zbigniew Jurek, University of Wroclaw, June 2015.

Institute of math. of Wroclaw: invited by Pr. Ewa Damek, University of Wroclaw, May 2012.

Laboratory Paul Painlevé (LPP): invited by Pr. Thomas Simon, University of Lille 1, June 2011.

Laboratory of Mathematics and Theoretical Physics (LMPT): invited by Pr. Marc Peigné, University of Tours, April 2011.

Laboratory of Mathematics Raphael Salem (LMRS): invited by Pr. Pierre Lescot, in University of Rouen, May 2011.

Laboratory Angevin for Research in Mathematics (LAREMA): invited by Pr. Loïc Chaumont, University of Angers, March 2011.

Laboratory of Mathematics on INSA (LMI): invited by Pr. Sonia Fourati, INSA-Rouen, March 2010. A mini-lecture on infinite divisibility was given.

Scientific Projects and Organizations Memberships

Sep 2015 -: member of the distinguished scientific fellowship program MATH 01 funded by King Saud University.

Sep 2015 -: member of the NPST program 14-MAT623-02 funded by King Abdulazid City for Sciences and Technology University.

Oct-Nov 2013: co-organizer, with Sonia Fourati, of the *School and Conference on Lévy Processes and Autosimilarity*, Tunis. Supported by the International Center for Pure and Applied Mathematics and the French National Research Agency. <http://www.cimpa-icpam.org/spip.php?article494>.

Mar-Apr 2012: local organizer of the 2nd *School of the Euro-Mediterranean Center of Mathematics and their Applications*, Tunis. <http://www.math.univ-toulouse.fr/CREMMA/CREMMAffiche.pdf>

Since March 2012: member of the council of the Tunisian Mathematical society.

Since September 2011: member of the council of the Department of Mathematics of the Faculty of Sciences of Tunis.

Mar 2010-: member of the french National Research Agency *Selfsimilar Processes and Applications*. <http://anr-autosim.math.univ-angers.fr/spip.php?article3>

Since 2003-: member of the GRETI team (Internet Data Traffic Analysis and Tools Development, University of Moncton-Canada). <http://www.cnsr.info/research/componenth.php>

Sep 1996-Sep 2002: member of the European Dynstoch Research Network (Statistical Methods for Dynamical Stochastic Models). <http://www.stochastik.uni-freiburg.de/DYNSTOCH/FRresearch.html>

Reviewer Activities

Journal of Theoretical Probability

Journal of Applied Probability

Arab Journal of Mathematical Sciences (Associate Editor)

Scientific Journal of King Faisal University

Mathematics and Statistics

Communication Networks and Services Research, CNSR-IEEE.

Research

Published papers

- W. JEDIDI, T. SIMON, M. WANG: *Density solutions to a class of integro-differential equations*. Accepted for publication in Journal of Mathematical Analysis and Applications (2017).
- A. IKSANOV, W. JEDIDI, FETHI BOUZEFFOUR: *Functional limit theorems for the number of busy servers in a $G/G/\infty$ queue*. Accepted for publication in Journal of Applied Probability (2017).
- A. IKSANOV, W. JEDIDI, FETHI BOUZEFFOUR: *A law of the iterated logarithm for the number of occupied boxes in the Bernoulli sieve*. Statistics & Probability Letters 126, 244252 (2017). vol. 126, (2017).
- F. BOUZEFFOUR, W. JEDIDI, N. CHORFI: *Jackson's (-1) -Bessel Functions with the Askey-Wilson algebra setting*. Advances in Difference Equations, 268, 1-13 (2015).
- W. JEDIDI, T. SIMON: *Diffusion hitting times and bell-shape*. Statistics and Probability Letters 102, 38-41, (2015).
- L. ALILI, W. JEDIDI, V. RIVERO : *On exponential functionals, harmonic potential measures and undershoots of subordinators*. ALEA, Lat. Am. J. Probab. Math. Stat. 11 (2), 711-735 (2014).
- W. JEDIDI : *Poisson shot noise traffic model and approximation of significant functionals*. Abstract and Applied Mathematics, Special Issue, 1-9, (2014).
- W. JEDIDI, T. SIMON: *Further Examples of GGC and HCM densities*. Bernoulli 19(5A), 1818–1838, (2013).
- W. JEDIDI, R. MCGORMAN, J. ALMHANA, V. CHOULAKIAN: *General shot noise processes and functional convergence to stable processes*, Chapter 3. Springer Proceedings in Mathematics, Zili, M.; Filatova, D. V. (Eds.), pp. 151–178, vol. 7, (2011).
- W. JEDIDI: *Stable Processes, mixing, and distributional properties, II*. Theory of Probability and its Applications, pp. 81–105, vol. 53 (1), (2009).
- W. JEDIDI: *Stable Processes, mixing, and distributional properties, I*. Theory of Probability and its Applications, pp. 580–593, vol. 52 (4), (2008).
- R. MCGORMAN, J. ALMHANA, V. CHOULAKIAN, Z. LIU, W. JEDIDI: *Similarities between voice and high speed internet traffic provisioning*. Proceedings of the Second Annual Conference on Communication Networks and Services Research, IEEE Computer Society, pp. 83–90, (2004).

Submitted papers and preprints

- R. AGUECH, W. JEDIDI: *Complete monotonicity and Bernstein properties of functions are characterized by their restriction on \mathbb{N}* , (2017).
- W. JEDIDI, F. BOUZEFFOUR: *On the HCM property for powers of positive stable random variables, a complement to Bondesson's conjecture*, (2017).
- P. BOSCH, W. JEDIDI AND T. SIMON: *HCM Property Linked to three Special Functions*, (2017).
- W. JEDIDI, F. BOUZEFFOUR, N. HARTHI: *Refined properties for the Mellin transform, with applications to convergence of families obtained by biasing or by the stationary excess operator*, (2016).
- W. JEDIDI, E. WAZZEN: *Extended Infinite Divisibility and Potential Measures*.
- W. JEDIDI: New characterization of multiply self-decomposability.
- W. JEDIDI: New results on Gamma functions related to self-decomposability.

Technical reports

- S. FOURATI, W. JEDIDI : *Some Remarks on the Class of Bernstein Functions and Some sub-Classes*, 2011. <http://hal.archives-ouvertes.fr/docs/00/64/90/18/PDF/BHCarxiv1.pdf>.
- W. JEDIDI: *Modelling Internet Traffic with Selfsimilar Processes, A tutorial approach with wavelets as an alternative to Karhunen-Loève*, 2003. Greti group, technical report.
- W. JEDIDI, *Local Asymptotic Normality of Statistical Models Associated with Discrete Observations of Lévy Processes*, 2001. <http://www.stochastik.uni-freiburg.de/DYNSTOCH/FRresearch.html>
- W. JEDIDI, *Régularité de quelques modèles associés à un processus markovien de sauts pur*. Pre-publication n° 265, Laboratoire de Probabilités, Université Paris 6, 1998. <http://www.proba.jussieu.fr/mathdoc/preprints/index.html>

Papers under preparation

- W. JEDIDI, N. HARTHI: *Some Results on Cumulant Functions*.
- W. JEDIDI: *On the Length-Size-Biasing and Infinite Divisibility*.
- L. ALILI, W. JEDIDI, V. RIVERO: *Exponential Functionals of Subordinators and Conjugacy*.

PhD thesis

- W. JEDIDI: *Regularity and Asymptotic Properties of Statistical Models Associated to Some Stochastic Processes*. PhD thesis, University Paris 6, (2000).

Conferences and Seminars

Invited Speaker at international conferences

- *Probability and Analysis*, Bedlewo, May, 2017.
- 8th International Conference on Lévy Processes, Angers, July 2016.
- *Probability and Analysis*, Bedlewo, May, 2015.
- *Probabilistic Aspects of Harmonic Analysis*, Bedlewo, April-May, 2014.
- Organizer of the Int. Conf. on *Lévy Processes and Selfsimilarity*, Hammamet, October-November 2013.
- *Analysis and Probability*. Angers, September 2012.
- *Probabilistic Aspect of Harmonic Analysis*. Bedlewo, April 2012.
- 18th international conference of the *Mathematical Society of Tunisia*. Tunis, March 2012.
- 2nd ANR Intern. Conf. on *Self-similarity and Stochastic Processes*. Le Touquet, June 2011.
- *Stochastic Analysis and Applied Probability*. Hammamet, October 2010.
- 1st French-Tunisian Conference of Mathematics. Djerba, March 2009.
- 31st Conference on *Stochastic Processes and Applications*. Paris, July 2006.
- 2nd Workshop on *Statistical Methods for Dynamical Stochastic Models*. Paris, June 2001.
- 1st Workshop on *Statistical Methods for Dynamical Stochastic Models*. Padua, May, 2000.
- *Conference des Jeunes Probabilistes et Jeunes Statisticiens*. Aussois, April 2000.
- 6th Workshop on *Statistical Inference for Stochastic Processes*. Paderborn, April 1998.

Talk at Seminars and Conferences attendance

- Talk at the Institute of Math., University of Wroclaw, June 2015.
- Talk at the int. Conf. on *Probabilistic Aspects of Harmonic Analysis*, Bedlewo, April-May, 2014.
- Talk at the Institute of Math. and Comp. Science, Wroclaw Univ. of Technology, May 2012.
- Talk at the seminar of the Institute of Math., University of Wroclaw, May 2012.
- Talk at the *Probability and App. Day*, Euro-Med. Center of Math. & their App. Tunis, March 2012.
- Talk at the 3rd Day of Mathematics, Federation of Normandie. Le Havre, June 2011.
- Talk at the seminar of the laboratory LMPT, University of Tours, April 2011.
- Talk at the seminar of the laboratory LAREMA, University of Angers, March 2011.
- Poster and participation at the 6th International Conference on Lévy Processes. Dresden, July 2010.
- Participation at the Intern. Conference on the Isoperimetric Problem. Carthage, May 2010.
- Talk at the *Probability day*. Monastir, May 2010.
- Talk at the seminar of the laboratory LPMA, University of Paris 6, March 2010.
- Talk at the seminar of the laboratory LAREMA, University of Angers, March 2010.
- Talk at the colloquium of LMRS, University of Rouen, March 2010.
- Talk at the seminar of the laboratory LMI, INSA Rouen, March 2010.
- Participation at the Intern. Conf. on *Stochastic Analysis and Applications*. Hammamet, October 2009.

- Poster at the 1st ANR Intern. Conference on Self-similarity and their application . Angers, July 2009.
- Talk at the *Probability day*. Monastir, May 2009.
- Talk at the *Probability day*. Monastir, May 2008.
- Talk at the *Probability day*. Monastir, May 2007.
- Talk at the *Probability day*. Monastir, June 2006
- Talk at the Seminar of LAMSI, ENIT school of Tunis, October 2004.
- Participation at the 3rd *Workshop on Stat. Methods for Dynam. Stochastic Models*. La Manga, May 2002.
- Participation at the 10th *Conference of the Tunisian Mathematical Society*. Mahdia, March 2002.
- Participation at the *Stochastic Models From Dynamical Statistical Physics*. Blaubeuren, April 2001.
- Participation at the 7th *Workshop on Statistical Inference for Stochastic Processes*. Freiburg, May 1999.
- Talk at the *Tunisian Mathematic Days*. Summer 1999.
- Participation at the 5th *Workshop on Statistical Inference for Stochastic Processes*. Rennes, April 1997.