# NOÔMEN JARBOUI CV



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Professor of Mathematics

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(4) Birth date: 20 January 1972

(5) Status: Married To Amel Krichi and I have four childrens (Mohamed Yazid (14 years old), Yosr (14 years old), Yasmine (11 years old) and Mohamed (6 years old))

#### 1. Research Interest

(ALGEBRA) Commutative Ring Theory : Multiplicative Ideal Theory. My most work is devoted to some conjectures about chain conditions in polynomial rings and their localizations. My work focuses also on : pairs of rings where all intermediate rings satisfy a given ring theoretic property. Other interests include : Maximal non-P subrings, that I defined and published several papers on this topic.

(TOPOLOGY) I have already published a paper on 2007 about digital topology and the connectivity in digital topological spaces.

#### 2. Education

(1) Dept. of Mathematics, Univ. of Sfax, Tunisia (Habilitation, confirmed, 2003).

(2) Dept. of Mathematics, Univ. of Sfax, Tunisia (PH.D, confirmed, 2000).

(3) Dept. of Mathematics, Univ. of Sfax, Tunisia. (M. S. in Mathematics 1996).

(4) Dept. of Mathematics, Univ. of Sfax, Tunisia (B. S. in Mathematics 1994 and D. U. S. S. in Physics 1992). I received the Sfax government scholarship for graduate studies. I also received the first price for graduating with excellence from the Faculty of Sciences of Sfax.

## 3. Experience

(1) (2015-currently) Department of Mathematics, King Faisal University, College of Science, P. O. Box 380, 31982 Al-Hassa, SAUDI ARABIA.

(2)(2011-2015) Dept. of Mathematics, Univ. of Sfax, P.O. Box 1171, Sfax, Tunisia. Responsibilities at the Univ. of Sfax: Taught Graduate Algebra II, Undergraduate Abstract Algebra I, Linear Algebra I and II, Topology. Also, I supervised two undergraduate math research projects, Three masters and Three PHD.

(2) (2007-2011) Dept. of Mathematics, King Faisal University, KSA.

Responsibilities at King Faisal Univ. : Taught Ordinary differential equations, Geometry, Abstract Algebra (Group Theory and Ring Theory), Linear Algebra, Advanced Linear Algebra, Number Theory. In this year I received the Borj El-kallel price from Tunisia for the best research paper in 2009.

(3) (1996-2007) Dept. of Mathematics, Univ. of Sfax, P.O. Box 1171, Sfax, Tunisia : Taught Calculus, Topology, Number Theory, Affine and Euclidian geometry, Linear algebra, Rings and fields, Group Theory, Polynomial rings, Galois theory, Complex analysis, Real analysis, Probability and Statistics etc

## Graduate courses that I have taught at the master degree:

-Dimension theory in polynomial and formal power series rings, Faculty of Sciences of Sfax (2004-2005).

-Digital Topology, Faculty of Sciences of Sfax (2006-2007).

-Group and Ring Theory, King Faisal University (2007-2011).

-Ring Theory (Multiplicative Ideal Theory), Faculty of Sciences of Sfax, Tunisia (2011-2012).

-Ring Theory (Minimal extensions of Commutative rings), Faculty of Sciences of Sfax, Tunisia (2013-2014).

-Digital Topology, Faculty of Sciences of Sfax (2014-2015).

# 4. Employment History

(1) Assistant 1996-2000, Faculty of Sciences of Sfax, Tunisia.

(2) Assistant Professor 2000-2003, Faculty of Sciences of Sfax, Tunisia.

(3) Associate Professor, 2003-2007, Faculty of Sciences of Sfax, Tunisia.

(4) Associate Professor 2007-2011, College of Science (King Faisal University), Saudi Arabia.

(5) Professor 2008-Now, Faculty of Sciences of Sfax, Tunisia.

# 5. Honors and Grants

(1) I am a reviewer for the American Math. Reviews.

(2) A research visitor at the Univ. of Aix Marseille III (2000, 2002, 2006).

## 6. Professional Activities and Committees

(1) Vice President of the Tunisian Mathematical Society (March 2014-March 2016).

(2) Serving on the editorial board of the following Journals: International Journal of Open problems in Computer Science and Mathematics, Advances in Pure and Applied Mathematics.

(3) Member of the Master-Degree Committee for the Dept. of Math (2003-currently).

(4) I worked as the seminar coordinator for the Math. Dept, (2003-Currently).

(5) Reviewer for The American Math. Reviews.

(6) I supervised several undergraduate math research projects at the university of Sfax.

(7) I supervised 8 master's theses at the university of Sfax.

(8) I supervised 8 PHD at the university of Sfax.

(9) Serving as a referee in several PHD theses in Tunisia essentially.

(10) I participated at the Ramanujan Prize 2009

#### Referee for the following Journals:

Beitrage zur Algebra und Geometrie / Contributions to Algebra and Geometry; Bulletin of the Allahabad Society (BAMS); Journal of Mathematics; International Journal of Open problems in Computer Science and Mathematics; Ricerche di Mathematika; Journal of algebra and its applications; Communications in Algebra, Advances in Pure and Applied Mathematics.

## 7. Publications

1) **Jarboui Noômen**. Some remarks on the altitude inequality. Colloq. Math. 80 (1999), no. 1, 39-52.

2) Ben Nasr Mabrouk, **Jarboui Noômen**. Maximal non-Jaffard subrings of a field. Publ. Mat. 44 (2000), no. 1, 157-175.

3) Nasr Mabrouk Ben, Echi Othman, Izelgue Lahoucine, **Jarboui Noômen**. Pairs of domains where all intermediate domains are Jaffard. J. Pure Appl. Algebra 145 (2000), no. 1, 1-18.

4) Ayache Ahmed, Ben Nasr Mabrouk, Echi Othman, **Jarboui Noômen**. Universally catenarian and going-down pairs of rings. Math. Z. 238 (2001), no. 4, 695-731.

5) Ben Nasr Mabrouk, **Jarboui Noômen**. Intermediate domains between a domain and some intersection of its localizations. Boll. Unione Mat. Ital. Sez. B Artic. Ric. Mat. (8) 5 (2002), no. 3, 701-713.

6) **Jarboui Noômen**. When is each proper overring of R an S(eidenberg)-

domain? Publ. Mat. 46 (2002), no. 2, 435-440.

7) **Jarboui Noômen**, Yengui Ihsen. Absolutely *S*-domains and pseudo-polynomial rings. Colloq. Math. 94 (2002), no. 1, 1-19.

8) Ayache Ahmed, **Jarboui Noômen**. Maximal non-Noetherian subrings of a domain. J. Algebra 248 (2002), no. 2, 806-823.

9) Ben Nasr Mabrouk, **Jarboui Noômen**. A counterexample for a conjecture about the catenarity of polynomial rings. J. Algebra 248 (2002), no. 2, 785-789.

10) Echi Othman, **Jarboui Noômen**. On residually integrally closed domains. Demonstratio Math. 36 (2003), no. 3, 543-550.

11) Ayache Ahmed, **Jarboui Noômen**. On questions related to stably strong S-domains. J. Algebra 291 (2005), no. 1, 164-170.

12) Bouassida Ezzeddine, **Jarboui Noômen**. Connectivity in A-spaces. JP J. Geom. Topol. 7 (2007), no. 2, 309-320.

13) Ayache Ahmed, **Jarboui Noômen**. Complement to the article: "On questions related to stably strong S-domains" [J. Algebra 291 (2005), no. 1, 164-170] J. Algebra 307 (2007), no. 1, 497.

14) Ayache Ahmed, **Jarboui Noômen**. An answer to a Dobbs conjecture about treed domains. J. Algebra 320 (2008), no. 10, 3720-3725.

15) Nasr Mabrouk Ben, **Jarboui Noômen**. On maximal non-universally catenarian subrings. J. Algebra Appl. 7 (2008), no. 5, 553-556.

16) Abdallah Mohamed Jaouhar Ben, **Jarboui Noômen**. Some remarks on the ring  $\mathbb{Z} + t\mathbb{Z}[t, u]$ . JP J. Algebra Number Theory Appl. 10 (2008), no. 1, 1-8.

17) **Jarboui Noômen**, Jerbi Ayada. Pullbacks and universal catenarity. Publ. Mat. 52 (2008), no. 2, 365-375.

18) Ayache Ahmed, **Jarboui Noômen**. Intermediary rings in normal pairs. J. Pure Appl. Algebra 212 (2008), no. 10, 2176-2181.

19) Ben Abdallah Mohamed Jaouhar, **Jarboui Noômen**. On universally catenarian pairs. J. Pure Appl. Algebra 212 (2008), no. 10, 2170-2175.

20) Ayache Ahmed, **Jarboui Noômen**. An algorithm for computing the number of intermediary rings in normal pairs. J. Pure Appl. Algebra 212 (2008), no. 1,

140-146.

21) Ayache Ahmed, **Jarboui Noômen**. Universally catenarian domains of the type A + I. Ric. Mat. 57 (2008), no. 1, 27-42.

22) **Jarboui Noômen**. A note on some chain conditions. Arch. Math. (Basel) 90 (2008), no. 2, 133-135.

23) **Jarboui Noômen**. A question about maximal non-valuation subrings. Ric. Mat. 58 (2009), no. 2, 145-152.

24) Ben Abdallah, Mohamed Jaouhar, **Jarboui Noômen**. A note on the ring  $D[tu^n, n \ge 0]$ . Houston J. Math. 35 (2009), no. 3, 719-724.

25) Abdallah Mohamed Jaouhar Ben, **Jarboui Noômen**. Some chain conditions in pullbacks. Monatsh. Math. 161 (2010), no. 1, 1-14.

26) Dobbs David E., **Jarboui Noômen**. On integral domains with a unique overring that is incomparable with the integral closure. JP J. Algebra Number Theory Appl. 23 (2011), no. 1, 1-24.

27) Ayache Ahmed, **Jarboui Noômen**, Massaoud Essebti. Pairs of domains where all intermediate domains are treed. Arab. J. Sci. Eng. 36 (2011), no. 6, 933-946.

28) Ayache Ahmed, Ben Nasr Mabrouk, **Jarboui Noômen**. PID pairs of rings and maximal non-PID subrings. Math. Z. 268 (2011), no. 3-4, 635-647.

29) Ben Nasr Mabrouk, **Jarboui Noômen**. On maximal non-valuation subrings. Houston J. Math. 37 (2011), no. 1, 47-59.

30) **Jarboui Noômen**. A note on the (FMC) condition for extensions of commutative rings, Int. J. Open Problems Comput. Math. , Vol. 5, No. 3, September, 2012 ISSN 2074-2827.

31) Nasr Mabrouk Ben, **Jarboui Noômen**, Zeyeda Nasr. About the spectrum of Nagata rings. Monatsh. Math. 167 (2012), no. 2, 257-272.

32) **Jarboui Noômen**, Massaoud, Essebti. On finite saturated chains of overrings. Comm. Algebra 40 (2012), no. 4, 1563-1569.

33) **Jarboui Noômen**, Jerbi Ayada. A note on maximal non-Noetherian subrings of a domain. Beitr. Algebra Geom. 53 (2012), no. 1, 159-172.

34) Monceur Hanen, Jarboui Noômen. Well-centered pairs of rings. J. Algebra

Appl. 12 (2013), no. 5, 1250135, 13 pp.

35) Zeyada Nasr A., **Jarboui Noômen**. *s-CS* modules and rings. Int. J. Algebra 7 (2013), no. 1-4, 49-62.

36) Nasr Mabrouk Ben, **Jarboui Noômen**. New results about normal pairs of rings with zero-divisors. Ric. Mat. 63 (2014), no. 1, 149-155.

37) **Jarboui Noômen**, Manar El Islam Toumi, Salma Trabelsi. Some questions concerning proper subrings, Ric. Mat 64 (2015), no. 1, 51-55.

38) **Jarboui Noômen**, Manar El Islam Toumi. A visit to maximal non-ACCP subrings, Journal of Algebra and Its Applications 15 (2016) (01), 1650016.

39) **Jarboui Noômen**, Manar El Islam Toumi. Characterizing maximal non-Mori subrings of an integral domain, Bulletin of the Malaysian Mathematical Sciences Society 40 (2017) (4), 1545-1557

40) Basma Gasmi, **Jarboui Noômen**. On algebraic extensions modulo I, Miskolc Mathematical Notes, Miskolc Mathematical Notes 16 (2015) (1), 145-150.

41) **Jarboui Noômen**, Salma Trabelsi. Some results about proper overrings of pseudo-valuation domains, Journal of Algebra and Its Applications 15 (2016) (05), 1650099

42) **Jarboui Noômen**, Salma Trabelsi. Pairs of integral domains with most of the intermediate rings PVD, Ricerche di Matematica 66 (2), 425-430.

43) Bsama Gasmi, **Jarboui Noômen**. A question about saturated chains of primes in Serre conjecture rings, Ricerche di Matematica, 1-10, in press.

44) Bsama Gasmi, **Jarboui Noômen** A note on intermediate ribgs between D+I and  $K[y_1][...[y_t]]$ , Palestine Journal of Mathematics, accepted 2018.

47) Naseam Al-Kuleab, **Jarboui Noômen**. A note on intermediate matrix rings, Far east Journal of Mathematical Education, Accepted 2018.

45) Basma Gasmi, **Jarboui Noômen**. On quasi-algebraic and pseudo-algebraic extensions modulo I, submitted.

46) Omar Almallah, Naseam Al-Kuleab, **Jarboui Noômen**. Maximal non-Prime ideally equal subring of a commutative rings, ssubmitted.

## 8. Participation at International and National Conferences

(1) The conferences of the Tunisian Mathematical Society : March 1997-98-99-2001-2003-2004-2005.

 $\left(2\right)$  The third international conference on Commutative ring theory, 2001, Fez Morocco.

(3) The International conference on commutative rings and their modules, 2004, Cortona, Italy, (Invited Speaker).

(4) The international school : Satellite Conference on Algebraic Geometry, August 16-19, 2006, Sergovia, Spain, (Invited Speaker).

(5) Conference Algebra and Co-algebras Tools for geometry, physics and computer science, Adjoint meeting of the American university in Cairo, Cairo University and the mathematical Science research, March 25-30, 2006, (Invited Speaker).

(6) Fifth International Fez Conference on Commutative Algebra and applications, June 23-28, 2008, Fez Morocco, (Invited Speaker).

(7) Models for success in managing national research resources, national policy workshop on forestering, innovation, higher education and global excellence, King Abdullaziz City for Science and Technology (KACST) and King Abdullah University of Science and Technology (KAUST), October 31 and November 1, 2009, at the KAUST campus in Thuwal, Saudi Arabia.