# Curriculum Vitae of Dr. Ines Ben Omrane

## PERSONAL DATA

Full Name: Ines Mahmoud BEN OMRANE

Nationality: Tunisian

Date / Place of Birth: 23/05/1979, Tunis, Tunisia
Marital Status : married, three children
Current Academic Rank: Assistant Professor

## Present Address:

Department of Mathematics and Statistics, College of Science, Al-Imam Muhammad Ibn
Saud Islamic University, P.O. Box 90950, Riyadh 11623, Saudi Arabia
**Email:** imbenomrane@imamu.edu.sa , benomraneines@gmail.com

## Research interest:

PDEs, Singularities, Geometry and Nonlinear Analysis.

## Languages:

Arabic and French : Perfectly bilingual.

English : Good reading ,writing and conversation.

## Academic Degrees:

**- February 2010:** Ph.D. Mathematics: PDEs and nonlinear analysis, University of Tunis,
Tunisia.

**Title of Ph.D. Dissertation**: "Study of some Nonlinear PDEs issued from Geometry and
Physics".

**- November 2005:** Master degree in Engineering Mathematics. Ecole Polytechnique de
Tunisie .
**Title of Master Thesis :** "A posteriori analysis of the spectral element discretization of
the one dimensional heat equation".

**- June 2002:** Bachelor of Sciences in Mathematics, University of Tunis, Tunisia.

**Publications:**

1- I. Ben Omrane: Mixed wavelet leaders multifractal formalism for Baire generic functions in a product of intersections of Holder spaces with non continuous Besov spaces, Mediterranean Journal of Mathematics, Volume 13 (2016), 5093–5118 (co-authors: M. Ben Abid and M. Ben Slimane) **ISI journal**

2- I. Ben Omrane: A posteriori analysis of the spectral element discretization of heat equation. An. St. Univ. Ovidius Constanta Vol. 22(3), 2014, 13-35 (co-authors: M. Abdelwahed and N. Chorfi) **ISI journal**

3- I. Ben Omrane: Singular limits for 2-dimensional elliptic problem with exponentially dominated nonlinearity and singular data, Communications in Contemporary Mathematics, Volume: 13 Issue: 4 (2011), 697-725 (co-authors: S. Baraket, T. Ouni, and N. Trabelsi) **ISI journal**

4- I. Ben Omrane: Singular limits for 2-dimensional elliptic problems involving exponential nonlinearity with nonlinear gradient term, Nonlinear Differential Equations and Applications, Volume: 18 Issue: 1 (2011), 59-78 (co-authors: S. Baraket and T. Ouni) **ISI journal**

5- I. Ben Omrane: The Wente problem associated to the modified Helmholtz operator on weighted Sobolev spaces, Adv. Nonlinear Studies, Volume: 10 Issue: 4 (2010), 771-788 (co-authors: M. Jleli, and B. Samet) **ISI journal**

6- I. Ben Omrane: Etude de quelques équations aux dérivées partielles non linéaires issues de la géometrie et de la physique, Reports of Faculty of Sciences of Tunis (2010).

7- I. Ben Omrane : A generalized four dimensional Emden-Fowler equation with exponential nonlinearity, Communications in Applied Analysis, Volume: 13 (2009), 431-446. (co-author:M. Dammak)


**Manuscript (In French):**
I. Ben Omrane, Textbook of tutorials in Analysis, University of Tunis, 2010.


**Employment History (in Descending Order—Last Given First):**

- 12/09/2011 – Present: Assistant Professor at Al-Imam University, College of Science, Department of Mathematics, Riyadh, KSA.
- A.Y: 2010-2011: Assistant Professor Carthage University, Tunisia.
- A.Y: 2006-2010: Contractual assistant Tunis University, Tunisia.


**Participations in Conferences:**

1. International Conference Geometry and Global Analysis, Santiago de Compostela, Spain, Dec. 13-17, 2010.
2. International Conference `The isoperimetric problem of Queen Dido and its mathematical ramifications'. May 2010, Gammarth (Tunisia).
3. International Franco-Tunisian Conference in Mathematics. March 2009, Djerba (Tunisia).
4. International Conference `PDE and Applications', March 2008, Hammamet (Tunisia).

5. Annual Conference of the Tunisian Mathematical Society. March 2007 and 2008, Sousse (Tunisia).
6. Annual Conference of the Association of Mathematics and Applications. December 2006 Hammamet and March 2007 Monastir (Tunisia).

## **Teaching Activities:**

-Courses at Imam University: Calculus I, Calculus II, Calculus III, Statistics and Probability, Linear Algebra, Real Analysis, Differential Equations, Complex Analysis, Financial Mathematics, Topology.
- Courses at IPEIN (University of Carthage) and IPEIT (University of Tunis): Integral Calculus, Differential Equations and Linear Algebra for Engineering studies in Mathematics.
-Courses at ISTMT (University Tunis El-Manar): Analysis and Probability for Medical Technology studies in Mathematics.

## **Administrative Responsibilities :**

- A.Y: 2013-2014 (second semester) : Member of organizing committee of student workshops .

- A.Y: 2014-2015 : Member of the committee of Higher Studies in College of Science.

- A.Y: 2015-2016 : Member of the committee of Higher Studies in College of Science.

- A.Y: 2016-2017(first semester) : Member of the committee of Higher Studies in College of Science.

## **Research, Publications and Professional Activities:**

- Published articles in ISI refereed journals (5)
- Publications in refereed non ISI journals (2)

- Published articles in other journals (1)

- Completed articles (3)

- Papers under preparation (3)

- Books under preparation (1)

- Participation in conferences and seminars (8)

- Supervision of Bachelor Projects (15)