



## CURRICULUM VITAE

### PERSONAL DATA

Name	Sami Mongi Baraket
Nationality	Tunisian
Position	Professor
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### EDUCATION

Year	Academic Degree	Institution
1998	Habilitation Universitaire	Faculty of Sciences of Tunis
1994	PhD Doctorat	Ecole Normale Supérieure de Paris, France
1991	Master	University of Paris-Sud Orsay, France
1990	Maitrise of Mathematics	Faculty of Sciences of Tunis

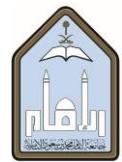
### WORK EXPERIENCE

Period	Position	Address
2022-	Professor	Imam Mohammad Ibn Saud Islamic University
2013-2022	Professor	Faculty of Sciences of Tunis
2008-2013	Professor	King Saud University
1999-2008	Professor	Faculty of Sciences of Tunis

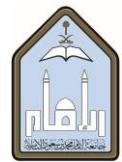
### RESEARCH INTERESTS

Partial Differential Equations, Nonlinear Analysis and Analysis

### PUBLICATIONS



1. S. Baraket, : Quelques résultats sur des équations aux dérives partielles provenant de problèmes géométriques. **Nouvelle Thèse ; Ecole Normale Supérieure de Cachan**, (1994).
2. S. Baraket and D. Ye, Minimizing harmonic mappings from a surface perforated with small holes into a Riemannian manifold. **Manuscripta Mathematica**, Vol.77, 191-199, (1992).
3. S. Baraket et L. Lassoued, Bifurcation analysis of solutions of Landau lifscitz problem with external fields. **Houston Journal of Mathematics**, Vol.23, N4,669-683, (1997).
4. S. Baraket, : Points critiques du système de Ginzburg-Landau sur une surface Riemannienne. **Comptes Rendus de L'Académie des Sciences de Paris**, t. 319 Série I, p. 949-952, (1994).
5. S. Baraket, Critical points of the Ginzburg-Landau system on a Riemannian surface. **Asymptotic Analysis**, Vol. 13, 277-317, (1996).
6. S. Baraket, Estimation of the best constant involving the L1 norm in the Wente's inequality. **Annal. Fac. Scien. de Toulouse**, Vol.V, N 3, 373- 386, (1996).
7. S. Baraket and F. Pacard, Construction of singular limits for a semilinear elliptic equation in dimension 2. **Calc. Var. Partial Differential Equations**, 6, 1-38, (1998).
8. S. Baraket, Construction de limites singulières pour des problèmes elliptiques non linéaires en dimension deux. **Comptes Rendues de l'académie des Sciences de Paris**, t. 323 Série I, p. 609-614, (1996).
9. S. Baraket, Construction of singular limits for a strongly perturbed two-dimensional problem with exponential nonlinearity. **Bulletin des Sciences Mathmatiques**, Vol. 123, 255-284, (1999).
10. S. Baraket and D. Ye, Singular limit solutions for two-dimensional elliptic problems with exponentially dominated nonlinearity. **Chinese Ann. Math. Ser. B**, 22, 287 296, (2001).
11. S. Baraket, The Wente problem in higher dimensions. **Comm. In Partial Diferential Equations**, 26, 1497-1508, (2001).
12. S. Baraket and S. Rebhi, Construction of dipole type singular solutions for a biharmonic equation with critical Sobolev exponent. **Adv. Nonlinear Stud.** 2, 459-476, (2002).
13. S. Baraket and L. B. Chaabane, The Wente inequality on weighted Sobolev spaces. **Houston journal of Mathematics**, Vol. 29, No. 4, 1065-1075, (2003).



14. S. Baraket and I. Bazarbacha, The Wente problem for a singular elliptic equation. **J. Math. Anal. Appl.**; **Vol. 284**, **711-723**, (2003).
15. S. Baraket and M. Dammak, Estimation of the best constant involving the L2 norm of the higher order Wente problem. **Abstr. Appl. Anal.** **599-606**, (2005).
16. S. Baraket, M. Dammak, M. Jleli and D. Ye, Integrability of detru and evolutionary Wente's problem associated to heat operator. **Chinese Ann. of Math. Ser.B**, **28 (5)** **527-532**, (2007).
17. S. Baraket, I. Abid, I. Bazarbacha and T. Ouni, Best constant involving the L1 norm of evolutionary Wente's problem associated to wave operator. **J. Math. Anal. Appl.** **325**, **866-878**, (2007).
18. S. Baraket, M. Dammak, T. Ouni and F. Pacard, Singular limits for a 4 dimensional semilinear elliptic problem with exponential nonlinearity. **Ann. I. H. Poincaré - AN** **24** **875-895**, (2007).
19. S. Baraket, I. Bazarbacha and N. Trabelsi, Construction of singular limits for four-dimensional elliptic problems with exponentially dominated nonlinearity. **Bull. Sci. Math** **131** **670-685**, (2007).
20. I. Abid and S. Baraket, Construction of singular solutions for elliptic problem of fourth order derivative with subcritical. **Differential and Integral Equations**, **vol. 21**, **N 7-8**, **653-664**, (2008).
21. S. Baraket and T. Ouni, Integrability of detru and evolutionary Wente's problem associated to reaction-diffusion operator. **Arab J. Math. Sc. Volume 15, Number 2, December**, **1-11**, (2009).
22. S. Baraket, I. B. Omrane and T. Ouni, Singular limits for 2-dimensional elliptic problem involving exponential nonlinearity with nonlinear gradient term. **Non. Lin. Diff. Eq. App.**, **vol. 18**, **N 1** **59-78**, (2011).
23. S. Baraket, I. B. Omranne , T. Ouni and N. Trabelsi, Singular limits solutions for 2-dimensional elliptic problem with exponentially dominated nonlinearity and singular data. **Communications in Contemporary Mathematics Vol. 13, No. 4**, **697--725.24**, (2011).
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25. S. Baraket, I. Abid and T. Ouni, Singular limits solution for \$2\$-dimensional elliptic problems involving Exponential nonlinearities with nonlinear gradient terms and singular weights. **Annali di**

**Matematica Pura ed Applicanda** 191:845–869, (2012).

26. S. Baraket, I. Bazarbacha, S. Kharrati and Taieb Ouni, Singular limits for \$2\$-dimensional elliptic problem with exponentially dominated nonlinearity with a very general quadratic gradient term.

**Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, Vol 21 (1), 19-50,** (2013).

27. S. Baraket and T. Ouni, Singular limits for \$2\$-dimensional elliptic problems involving Exponential nonlinearity with subquadratic convection term. **Glasgow Mathematical Journal, Vol 55 (3), 537-557,** (2013).

28. S. Baraket and T. Ouni, Singular limits solution for \$2\$-dimensional elliptic problems involving Exponential nonlinearity with sub-quadratic convection nonlinear gradient terms and singular weights. **Adv. Nonlinear Anal. 3 (S1), 69-88,** (2014).

29. S. Baraket, M. Dammak and S. Kharrati, Singular limits solution for \$2\$-dimensional elliptic problems involving Exponential dominated nonlinearity with subquadratic convection term. **AN. STIINT. UNIV. AL. I. CUZA IASI. MAT. (N.S.) Tomul LXII, 2016, f.1.**

30. **S. Baraket, M. Khtaifi and T. Ouni, Singular limit solutions for 4-dimensional stationary Kuramoto-Sivashinsky equations with exponential nonlinearity, Elect. Jour. Diff. Eq. , No. 187, pp. 1-26,** (2015).

32. S. Baraket, I. Bazarbacha and M. Trabelsi, Singular limiting solutions for 4-dimensional elliptic problem involving exponentially dominated nonlinearity with nonlinear terms. **Elect. Jour. Diff. Eq. , No. 289, pp. 1-19,** (2015).

33. **T. Ouni, S. Baraket and M. Khtaifi, Singular limit solutions for 4-dimensional general stationary q-Kuramoto-Sivashinsky (q-KS) equations with exponential nonlinearity, An. S,tiint., Univ. “Ovidius” Constanta Ser. Mat. 24 (2016), no. 3, 295–337.**

34 **S. Baraket** and I. Bazarbacha, Singular limiting solutions for 2 dimensional semilinear elliptic system of Liouville type with Dirichlet boundary conditions, **Complex Variables and Elliptic Equations 63(1), (2018) 37-67.**

35. S. Baraket and V. D. Rădulescu, Combined effects of concave-convex nonlinearities in a fourth-order problem with variable exponent, **Adv. Nonlinear Stud. 16, 409-419,** (2016).

36. S. Baraket and C. M. Bisci, Multiplicity results for elliptic Kirchhoff-type problems, **Adv. Nonlinear Anal. 6 (S1), 85-93,** (2016).

37. S. Baraket, S. Chebbi, N. Chorfi and V. D. Rădulescu, Non-autonomous Eigen value problems with variable  $(p_1, p_2)$ -growth, **Adv. Nonlinear Stud.** **17** (4), 781-792, (2017).
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42. S. Baraket, N. Trabelsi and S. Saanouni, Singular limit solutions for a 2 dimentional semilinear elliptic system of Liouville type in some general case, **Discrete Contin. Dyn. Syst.** **40**(2), (2020).
43. S. Baraket, I. Bazarbacha, A. Messaoudi and R. Chetouane, Singular limit solutions for a 4-dimentional semilinear elliptic system of Liouville type in some general case, **Taiwanese J. Math.** **24**(4), 2019, 855-909.
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51. S. Baraket, S. Mahdaoui, T. Ouni, On th Blowing up solutions of the 4-D general Q-Kuramoto-Sivansky equations with exponentially dominated nonlinearity and singular weight, **Opuscula Mathematica** (2023), 43 (1), pp.5-18.

52. S. Baraket, S. Mahdaoui, T. Ouni,, Limiting profile of the blow-up solutions for the fourth-order nonlinear Emden fowler equationwith a singular source, **Discrete and Continous Dynamical System, series S** (2023).

53. S. Baraket, R. Chetouane, R. Jaidane and W. Mtaouaa, Sign-changing solutions for a weighted Schrödinger-Kirchhoff equation with double exponential nonlinearities growth, **(To appear)**.

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Blow-up solutions for a 4-dimensional semilinear elliptic system of Liouville type in some general case, **(to appear)**.

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56. S. Baraket and M. Bouguecha, Unconstrained minimization problems and a new symmetrization method for vector valued maps, **(to appear)**.

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