



# Fakher Oueslati

## Curriculum Vitae

*"Extremely dedicated, highly motivated, self-starter with excellent communication skills, Assistant Professor at the Physics department at Al-Baha university, Ph.D in Physics in the speciality of mechanic of fluids and transfers and teaching in the same field of research. Fluent spoken and written in English and French." - (Fakher Oueslati)*

### Personal Information

Marital status married  
Date of Birth 03/13/1983  
Place of Birth Ksour Essaf, Tunisia  
Tel 00 966 50 782 30 20  
Email fakher.oueslati@gmail.com

### Education

- 2011–2014 **Doctor of Philosophy (Ph.D) in Physics**, (*Ph.D in Fluid Mechanics and Heat Transfer*), Faculty of Science of Tunis (FST).  
Title *Study of the three-dimensional double diffusive convection in a confined enclosure*  
Supervisor Dr. Brahim Ben-Beya  
Description This thesis numerically explored the flow dynamic and the heat and mass transfer rates within 2D and 3D cavities
- 2010 **Research Master Degree**, Faculty of Science of Tunis (FST), Tunis, .  
Specialized in Physics of Fluids and Transfers
- 2007 **Bachelor's degree (4 years)**, Faculty of Science of Tunis (FST), Tunis.  
Specialized in Fundamental Physics
- 2002 **High School Bacallaureates**, High school of Ksour Essaf, Mahdia, .  
Specialized in Mathematics

### Certifications

- 2011 **TOIEC (760/980)**, ("Test Of English for International Communication"), AMIDEAST Tunis.

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2010 **TOEFL ITP (507/677)**, ("Test Of English as a Foreign Language Institutional Testing Program"), AMIDEAST Tunis.

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## Experience

2015–2024 **Assistant Professor**, FACULTY OF SCIENCE OF AL-BAHA, Al-Baha, Kingdom of Saudi Arabia.

Conducted Physics courses for students of all levels

2014–2015 **Teacher**, GRADUATE SCHOOL OF SCIENCE AND TECHNOLOGY (ESST), Sousse.

Conducted Physics tutorial courses for students of fundamental Physics).

2011–2014 **Teacher**, FACULTY OF SCIENCE OF TUNIS (FST), Tunis.

Conducted English mini-projects with Fortran program for students of Master of Physics of fluids and transfers).

Detailed achievements:

- Learned and taught how to develop codes running correctly with FORTRAN Language

2012–2013 **Supervisor**, of a Physics Master degree, FACULTY OF SCIENCES OF TUNIS (FST).

Tunis

Title *Mixed convection within an inclined rectangular enclosure in the presence of a magnetic field*

2010–2011 **Teacher**, FACULTY OF SCIENCE OF TUNIS (FST), Tunis.

Conducted courses in solid mechanics for students in Fundamental Mathematics

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## Administrative costs and committees Section

2022–2024 **Coordinator of the Quality Committee at the Faculty of Science** , *Faculty of Science Al-Baha*.

2016–2024 **Coordinator of the Quality Committee of Physics program** , *Responsible for Computational Physics Laboratory*, PHYSICS DEPARTMENT, Faculty of Science Al-Baha.

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## Scientific Productions

### Articles in peer-reviewed journals

2023 Sara El Hassani, Fakher Oueslati, Othmane Horma, Domingo Santana, Mohammed Amine Moussaoui, Ahmed Mezrhab, Techno-economic feasibility and performance analysis of an islanded hybrid renewable energy system with hydrogen storage in Morocco, *Journal of Energy Storage*, 68, 107853, (2023)

2023 Salwa Fezai, Fakher Oueslati, and Brahim Ben-Beya, Computational analysis of the influence of the dimensions of three square cylinders arranged in equilateral triangular arrangement on the behavior of flow and aerodynamics forces, *International Journal of Fluid Mechanics Research* 50(4):33-52 (2023)

2021 Fakher Oueslati, Hybrid renewable system based on solar wind and fuel cell energies coupled with diesel engines for Tunisian climate: TRNSYS simulation and economic assessment, *International Journal of Green Energy*, 18(4), 402-423 doi: 10.1080/15435075.2020.1865366 (2021)

2021 Salwa Fezai, Fakher Oueslati, and Brahim Ben-Beya, Influence of Various Staggered Arrangements of Square Cylinders on The Drag and Lift Forces and the Wake Flow Behavior, *International Journal of Fluid Mechanics Research*, 48(6):73-91 DOI: 10.1615/InterJFluid-MechRes.2021040851 (2021)

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- 2021 Salwa Fezai, Fakher Oueslati, and Brahim Ben-Beya, Computational Examination of Aerodynamics Forces and Evolution of Vortex Shedding of Flow Past Three Square Cylinders at Two Symmetrical Vee Shapes, *Current Trends in Civil and Structural Engineering*, DOI: 10.33552/CTCSE.2021.06.000650 (2021)
- 2020 Salwa Fezai, Fakher Oueslati, and Brahim Ben-Beya, Identification of flow states around three staggered square cylinders at two symmetrical arrangements by a numerical investigation, *International Journal of Modern Physics C*, Vol. 31, No. 11, 2050151 (2020)
- 2019 Salwa Fezai, Fakher Oueslati, Nader Ben-Cheikh and Brahim Ben-Beya, Prediction of wake structure and aerodynamic characteristics of flow around square cylinders at different arrangements, *International Journal of Modern Physics C* Vol. 30, No. 1 pp. 1950015 (2019)
- 2018 Fakher Oueslati, Brahim Ben-Beya, Investigation of heat and mass transfer and irreversibility phenomena within a three-dimensional tilted enclosure for different shapes, *Journal of Applied Mechanics and Technical Physics*, Vol. 59, No. 1, 93-103 (2018)
- 2018 Salwa Fezai, Fakher Oueslati, Nader Ben-Cheikh and Brahim Ben-Beya, Sensitivity of wake parameters to diameter changes for a circular cylinder, *International Journal of Modern Physics C*, Vol. 29, No. 11 pp.1850087 (2018)
- 2017 Fakher Oueslati, Brahim Ben-Beya, Analysis of thermosolutal natural convection and entropy generation within a three-dimensional inclined cavity with various aspect ratios, *Journal of Thermal Science and Technology*, 12(2) (2017)
- 2017 Fakher Oueslati, Brahim Ben-Beya, Numerical prediction of 3d thermosolutal natural convection and entropy generation phenomena within a tilted parallelepipedic cavity with various aspect ratios, *Computational Thermal Sciences* 9(4) 363-382 (2017)
- 2017 Fakher Oueslati, Brahim Ben-Beya, Magnetoconvection and irreversibility phenomena within a lid driven cavity filled with liquid metal under magnetic field, *Frontiers in Heat and Mass Transfer (FHMT)* 38(8) (2017)
- 2015 Fakher Oueslati, Brahim Ben-Beya and Taieb Lili, Some aspects of the three-dimensional double-diffusive natural convection in a parallelepipedic tilted solar distiller, *International Letters of Chemistry, Physics and Astronomy* 55, 47-59 (2015)
- 2014 Fakher Oueslati, Brahim Ben-Beya and Taieb Lili, Numerical simulation of unsteady double-diffusive natural convection within an inclined parallelepipedic enclosure, *International Journal of Modern Physics C*, 25, 1450058-1-25 (2014).
- 2014 Fakher Oueslati, Brahim Ben Beya and Taieb Lili, Numerical investigation of thermosolutal natural convection in a rectangular enclosure of an aspect ratio four with heat and solute sources. *Heat and Mass Transfer* 50, 721-736 (2014)
- 2013 Fakher Oueslati, Brahim Ben-Beya and Taieb Lili, Double-diffusive natural convection and entropy generation in an enclosure of aspect ratio 4 with partial vertical heating and salting sources. *Alexandria Engineering Journal* 52, 605-625, (2013)
- 2011 Fakher Oueslati, Brahim Ben Beya and Taieb Lili, Aspect ratio effects on three-dimensional incompressible flow in a two-sided non-facing lid-driven cavity, *C. R. Mecanique* 339, 655-665 (2011)

[International peer-reviewed conferences/proceedings](#)

- 2014 Fakher Oueslati, Brahim Ben Beya, et Taieb Lili, On the importance of the threedimensional thermosolutal convection phenomenon within an inclined cuboid, *STP'2014*, (2014), Sousse, Tunisia

- 2014 Fakher Oueslati, Brahim Ben Beya, et Taieb Lili, Some aspects of the three-dimensional double-diffusive natural convection in a parallelepipedic tilted solar distiller, WSMEAP'2014, (2014), Sousse, Tunisia
- 2013 Fakher Oueslati, Brahim Ben Beya, et Taieb Lili, Contribution à l'étude de la convection thermosolutale tridimensionnelle dans un distillateur solaire incliné, "Congrès Français de Mécanique", (2013) Bordeaux, France
- 2013 Fakher Oueslati, Brahim Ben Beya and Taieb Lili, On the three-dimensionality effects on thermosolutal convection flow within a solar distiller, International Symposium on Computational and Experimental Investigations on Fluid Dynamics CEFD'2013, (2013), Sfax, Tunisia.

## Languages

Arabic Mother tongue  
 English Excellent  
 French Excellent

*Fluent Spoken and Written*  
*Fluent Spoken and Written*