



CURRICULUM VITAE

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CURRENT POSITION : 2013 -

2012/2013, 2013/2014, 2014/2015, 2015/2016 : Assistant Professor at King Faisal University, College of Science, Al Ahsa, KSA

EDUCATION

2003 **Doctorate (PhD)**
Faculty of Sciences of Tunis,
Tunis El Manar University, Tunisia.

1997 **Master of Sciences (M Sc)**
Faculty of Sciences of Tunis,
Tunis El Manar University , Tunisia.

1993 **Bachelor of Science (B Sc)**
Faculty of Sciences of Tunis,
Tunis El Manar University , Tunisia.

EMPLOYMENT

2011-2012: Postdoctoral Fellow

Engineering Faculty
Sherbrooke University, Sherbrooke, Quebec, Canada.

2010-2011 : Teaching Assistant

Institute of Engineering preparation study of El Manar
Tunis El Manar University, Tunisia.

2004-2010: Teaching Assistant

Institute of Technology Studies of Rades, Tunisia.

2003/2004: Teaching Assistant

Institute of Engineering Preparation Study of Nabeul

Carthage University, Tunisia.

2000/2003: Teaching Assistant

Higher Inst. for Applied Sciences and Technology of Mateur

Carthage University, Tunisia.

TEACHING EXPERIENCE

Undergraduate courses

- Elements of Algebra,
- Elements of Real analysis
- Complex analysis
- Ordinary differential equations
- Logic and Proofs
- Precalculus, Calculus I, II, III
- Numerical analysis
- Elasticity
- Dynamics (Mechanics)
- Fluid mechanics
- Principles of analysis
- Applied Mathematics

Graduate courses

- Numerical methods for Linear Algebra
- Numerical methods for Ordinary Differential Equations

TRAINING

- Training Program of the Quality Assurance and Academic Accreditation (King Faisal University): “**Course Report Workshop**” Nov. 29, 2015
- Training Program of the Deanship of Academic Development (King Faisal University): “**The way to Patent: Step by Step**”
Nov. 8&9, 2015
- Training Program of the Deanship of Academic Development (King Faisal University): “**Using Social Networks in teaching and learning**” Apr. 20-21, 2015

- Training Program of the Deanship of Academic Development (King Faisal University): “ **Setting Up Achievement Tests According to Scientific Criteria**” Mar. 15-16, 2015
- Training Program of the Deanship of Academic Development (King Faisal University): “**Using Blackboard: Skills and tools**”, Feb. 23-24, 2014
- Training Program of the Deanship of Academic Development (King Faisal University): “**Introduction to Matlab**”, Oct. 6-7, 2014
- Training Program of the Deanship of Academic Development (King Faisal University): “**Quantitative Research, SPSS**”, Dec. 24-25, 2013
- Training Program of the Deanship of Academic Development (King Faisal University): “**Strategic Planning Applications in Higher Education**”, Dec. 1-2, 2013

RESEARCH INTERESTS

- Fluid Mechanics
- Numerical analysis
- Computational Fluid Dynamics.
- Aeroacoustics in High Lift Systems
- Numerical methods for linear Algebra
- Optimisation (genetic Algorithms)
- Traveling wave solutions for nonlinear partial differential equations

COMMITTEES AND PROFESSIONAL SERVICE

- Coordinator of the **Committee of timetables**
Department of Mathematics, KFU (2014/2015)
- Member of **Quality Assurance Committee**
Department of Mathematics, KFU (2013/2014)

PUBLICATIONS

Published

- 1) Arnaud Fosso Pouangue, **Chokri Mnasri**, Stephane Moreau, “**Parameterization and optimization of broadband noise for high-lift devices**” 19th AIAA/CEAS Aeroacoustics Conference. May 2013 Berlin, Germany
<http://arc.aiaa.org/doi/abs/10.2514/6.2013-2065>

- 2) **C. Mnasri, Z. Hafsia, M. Omri and K. Maalel “ A moving grid model for simulation of free surface behavior induced by horizontal cylinders exit and entry”**,
Engineering Applications of comp. Fluid mech., 2 (2010)
<http://www.tandfonline.com/doi/pdf/10.1080/19942060.2010.11015315>
- 3) **C. Mnasri & T. Lili «similarity states of stably stratified homogeneous turbulence at high Reynolds number " Phys. Chem. News (2004)**
http://www.pcnjournal.com/dc0617_448.htm
- 4) **C. Mnasri, Z. Hafsia, M. Omri, K. Maalel “Numerical simulation of a fluid-disk interaction: dynamics of the surface cavity induced”**, Eleventh International Congress of Fluid Dynamics (ICFD 11) December 2012, Ain Soukhna, Red Sea, Egypt. <http://www.icfd11.org/ICFD10/ICFD10-EG-3065.pdf>
- 5) Zeineb Saoudi, **Chokri Mnasri**, Zouhaier Hafsia, Khelifa Maalel
“**Standing wave induced by free liquid sloshing in rectangular tank**”, International Renewable Energy Congress November 5-7, 2010 Sousse, Tunisia http://2011.irec-conference.com/presented_papers/papers/STPE/ID162.pdf
- 6) Zouhaier Hafsia, **Chokri Mnasri**, Omri Mohamed, Khelifa Maalel “**Water entry and exit of horizontal cylinder in free surface flow**”
Int. Symp. on Convective Heat and Mass Transfer in Sustainable Energy , April 26 – May 1, 2009, Tunisia https://inis.iaea.org/search/search.aspx?orig_q=RN:40087861
Accepted
- 7) **Chokri Mnasri**, Abdulsalam Farhat , “**Numerical simulation of the flow of crowds at the Jamarat Bridge during the Hajj**” Open Journal of Fluid Dynamics (2016)
Submitted
- 8) **Mnasri C., Hafsia Z., Omri M., Stephane Moreau , Maalel K. “Numerical simulations of cavity dynamics induced by a moving disk impacting a still free surface”** Submitted to Journal of Fluid Engineering (ASME)
- 9) Arnaud Fosso Pouangue, **Chokri Mnasri**, Stephane Moreau, “**Parameterization and optimization of broadband noise**” Submitted to Computers and Fluids
Internal Reports: (Not published)
- 10) Shokri Mnasri “**Numerical simulation of a High lift 2D-system (Bombardier Configuration)**” Feb. 2012
Sherbrooke University and Aerospace Bombardier Company
- 11) Arnaud Fosso P. Shokri Mnasri, Laurent Soulat “**Numerical simulation of L1T2 High lift configuration**” May 2012
Sherbrooke University and Aerospace Bombardier Company

Projects:

12) **Mnasri C.**, Ben-cheikh N., Ben-Beya, B. Lili T.

“Natural convection flow in a large aspect ratio enclosure: finite volume simulation” *In progress*

13) **C. Mnasri** , T. Lili « **Analysis of nonlinear effects in high Reynolds number stably stratified homogeneous turbulence performed by using a spectral model”**
In progress

14) **Chokri Mnasri** : **Traveling wave solutions for nonlinear partial differential equations**, *In Progress*

OTHER RESEARCH ACTIVITIES

Master Dissertation Committees

- Member of the dissertation Committee of the Master thesis of the student: Mnerh al Qahtani, :” **Wave propagation along a thin vertical wire on the earth’s surface”**
Thesis defended at **21/05/2015**
College of Science (KFU) (**Winter 2015**)
- Member of the examining committee of the “Research and Article” report in Master Program **“Some Numerical treatment of Initial value problems”** College of Science (KFU) (**Winter 2013**)

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Supervision of “Research and Article” course in Master Program

- Supervision of “Research and Article” course in Master Program **“Numerical solution of nonlinear integral equations using radial basis functions and collocation method “**
College of Science (KFU) (semester I, II/1435)
- Supervision of “Research and Article” course in Master Program **“Krylov Subspace Method for solving sparse linear systems “**
College of Science (KFU) (semester I,II/1435)
- Supervision of “Research and Article” course in Master Program **“The Adomian decomposition method and Applications in Heat equation “** College of Science (KFU) (semester II/1436), In Progress.
- Supervision of “Research and Article” course in Master Program **“The Adomian decomposition method and Applications in wave equations” “** College of Science (KFU) (semester II/1436) , In Progress.

Supervision Of “Undergraduate Student research

- Supervision Of “*Undergraduate Student research* ” submitted to the 6th scientific student congres : “**Numerical simulation of the flow of crowds at the Jamarat Bridge during the Hajj**”

The research if funded by Deanship of Scientific Research of the KFU, Project No: 165040

Review of research papers and projects

- Review of research paper

Paper 2015-0241R

AIP Advances Journal (2015)

- Review of research projects

Project no: SM14004 , Project no: SM14015

University of Hail (2014)

- Review of research project

Project no: 43405021

University of Umm Al-Qura (2014)

COMPUTER SKILLS

Operating Systems OS

Windows, Unix (HP-UX , Solaris) , Linux

Word and spreadsheet

Latex, MS-Word, MS-Exel, MS-Power Point

Development and Programmation

Fortran, MATLAB, Maple, Photoshop, Tecplot

CFD codes and grid generation

Ansys Fluent, Fluorem (Turb’Flow, Turb’Opty), Gambit, Pointwise

LANGUAGE SKILLS

Arabic: Native Language

French: Conversation: excellent, written: excellent

English: Conversation: good, written : good