CURRICULUM VITAE

Name: **Chokri Abdelmajid Mnasri**

Born: **Tunisia**

Citizenship: **Tunisian**

Address: **King Faisal University, College of Science, Department of Mathematics, P. O. Box 400, Al- Ahsa, 31982, Saudi Arabia**

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CURRENT POSITION : 2013 -

2012/2013, 2013/2014, 2014/2015, 2015/2016 , 2016/2017 , 2017/2018, 2018-2019

Assistant Professor , **King Faisal University**, College of Science, Al Ahsa, KSA

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.

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.

TEACHING EXPERIENCE

Undergraduate courses

- Elements of Algebra,
- Elements of Real analysis
- Complex analysis
- Ordinary Differential Equations
- Logic and Proofs
- Pre-calculus, Calculus I, II, III
- Numerical Analysis
- Elasticity (Mechanics)
- Dynamics (Mechanics)
- Fluid mechanics
- Principles of Real Analysis
- Applied Mathematics

Graduate courses

- Numerical methods for Linear Algebra
- Numerical methods for Ordinary Differential Equations
- Numerical analysis I
- Numerical analysis II

TRAINING

- Training Program of the Deanship of Development and Quality Assurance (Faculty Members Enrichment Program, King Faisal University): "**Outcomes and Methods of Measurement**" Jul. 30, 2018
- Training Program of the Deanship of Development and Quality Assurance (Faculty Members Enrichment Program, King Faisal University): "**Faculty Member as Leader – Manager :Essential Leadership and Management Skills**" Aug. 2 ,2018
- Training Program of the Deanship of Development and Quality Assurance (Faculty Members Enrichment Program, King Faisal University): "**Problem-Solving Learning**" Aug. 5 ,2018
- Training Program of the Deanship of Development and Quality Assurance (Faculty Members Enrichment Program, King Faisal University): "**Flipped Learning**" Aug. 6 ,2018
- Training Program of the Deanship of Development and Quality Assurance with cooperation with the college of science (King Faisal University): "**Data analysis with SPSS program**" Dec. 20 & 21, 2017
- Training Program of the Deanship of Development and Quality Assurance with cooperation with the college of science (King Faisal University): "**Fortran and Linux** " Feb , 2018
- Training Program of the Deanship of Development and Quality Assurance (King Faisal University): "**Technical Writing Using Latex Document Processing**" May. 09 & 10, 2017
- Training Program of the Deanship of Development and Quality Assurance (King Faisal University): "**Rules of Academic Writing and Citation According to APA Style**" March. 21 &22 , 2017
- Training Program of the Deanship of 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

- Dynamical Systems
- 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

COMMETTEES AND PROFESSIONAL SERVICE

- **Coordinator of Department of Mathematics,**
  KFU (2016/2017-2017/2018, 2018/2019)
- **Coordinator of the Committee of Statistics and Information**
  College of Science, KFU (2016/2017-2017/2018)
- **Coordinator of the Unit 7 (Applied Mathematics) in the New Bachelor Program of Mathematics proposed by the mathematics Department**
- **Coordinator of the Committee of timetables**
  Department of Mathematics, KFU (2015-)
- **Member of PhD Program Committee**
  Department of Mathematics, KFU (2017-)
- **Member of Quality Assurance Committee**
  Department of Mathematics, KFU (2013/2014)

PUBLICATIONS

Published

1) *Chokri Mnasri, Adel Elmandouh* ***, 2018,*** **On the dynamics aspects for the plane motion of a particle under the action of potential forces in the presence of a magnetic field,** Results in Physics **9,** pages 825-831
(Project No 170051 supported by DSR-KFU 2016/2017)
https://doi.org/10.1016/j.rinp.2018.03.025
2) Arnaud Fosso Pouangue, **Chokri Mnasri**, Stephane Moreau, 2016, "**Parameterization and optimization of broadband noise for high-lift devices ,** Computers & Fluids, Volume 140, Pages 308–319

   http://dx.doi.org/10.1016/j.compfluid.2016.09.024

3) C Mnasri, A Farhat ,2016, **Numerical Simulation of the Flow of Crowds at the Jamarat Bridge during the Annual Hajj Event,** Open Journal of Fluid Dynamics 6 (04), 321

4) http://dx.doi.org/10.4236/ojfd.2016.64024

5) 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

6) **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
7) **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
8) **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
9) Zeineb Saoudi, **Chokri Mnasri**, Zouhaier Hafsia, Khlifa 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

10) Zouhaier Hafsia, **Chokri Mnasri**, Omri Mohamed, Khlifa 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

Submitted

11) **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**" Submited

Internal Reports: (Not published)

12) Shokri Mnasri **"Numerical simulation of a High lift 2D-system (Bombardier Configuration)"** Feb. 2012
Sherbrooke University and Aerospace Bombardier Company

13) Arnaud Fosso P. Shokri Mnasri, Laurent Soulat **"Numerical simulation of L1T2 High lift configuration"** May 2012
Sherbrooke University and Aerospace Bombardier Company

Internal Reports: (Not published)

Projects:

14) *Chokri Mnasri, Adel El Mandouh* **,** ***Quartic integral in a rigid body-gyrostat dynamics*** **(Project No 180100 supported by DSR-KFU 2017/2018)**
In Progress

15) Chokri Mnasri, Mounir Elloumi, Ramzi May**, Large time behaviour of solutions to a second-order differential equation with non-autonomous damping , convex potential and Thikhanov regularizing term, (Project supported by DSR-KFU 2016/2017)** *In Progress*

16) Mnasri C., Ben-cheikh N., Ben-Beya, B. Lili T.
"**Natural convection flow in a large aspect ratio enclosure: finite volume simulation**" *In progress*

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

18) *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 exanimating committee of the "Research and Article" report in Master Program "**Some Numerical treatment of Initial value problems**" College of Science (KFU) (**Winter 2013**)

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),
- 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).
- Supervision of "Research and Article" course in Master Program "**Homotopy analysis method for solving some nonlinear differential equations"** College of Science (KFU) (semester I/1437).

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 ***(In Progress)***

  Paper SNAS-D-18-00245

  SN Applied Science (2018)

- Review of research paper

  Paper 2018-1398

  AIP Advances Journal (2018)

- 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

DATA Analysis coding

R (Honor Code Certificate from Microsoft) , SPSS coding (KFU training)

LANGUAGE SKILLS

Arabic: Native Language

English: Conversation: good, written : very good

French: Conversation: excellent, written: excellent