**CURRICULUM VITAE**

Name: **Sihem Youssef Trabelsi**

Born: Tunisia

Marital Status: Married, 2 children

Citizenship: Tunisian

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# CURRENT JOB

2013- **Assistant Professor**

College of Science, Department of Mathematics

King Faisal University, KSA.

# EDUCATION

2011  **Doctorate of Mathematics** (PhD)

Faculty of Sciences of Tunis,

Tunis El Manar University, Tunisia.

2004  **Master of Sciences of Applied Mathematics (M Sc)**

Faculty of engineering of Tunis (ENIT),

Tunis El Manar University , Tunisia.

1994 **Bachelor of Science in Mathematics (B Sc)** Faculty of Sciences of Bizerte,

Carthage University, Tunisia.

# EMPLOYMENT

**2011/2013** Assistant Professor

Institute of Engineering Preparatory Studies, Nabeul,

Carthage University, Tunisia.

**2010/2011** Teaching Assistant

Computer Institute of El Kef,

Jendouba Universty

**2008/2010**  Teaching Assistant

Institute of Engineering Preparatory Studies, Manar

El Manar University, Tunisia.

**2003/2008** Teaching Assistant

Institute of Engineering Preparatory Studies Bizerte ,

Carthage University, Tunisia.

**2000/2003:**  Teaching Assistant

Institute of Engineering Preparatory Studies, Mateur ,

Carthage University, Tunisia.

**1996/2000 :**  Secondary school teacher,

Secondary school, Gbollat,

Beja, Tunisia

**1994/1996:** Secondary school teacher,

Secondary school, Teboursouk,

Beja, Tunisia.

# TEACHING EXPERIENCE

* General algebra, linear algebra
* Real and complex Analysis
* Geometry
* Numerical Analysis
* Precalculus, Calculus I
* Geometric transformations
* Principles of Analysis
* Ordinary differential equations.
* Real analysis I
* Real analysis II

# TRAINING

* + International Training : **Mawhiba Enrichment Program 12-hours, science-focused, teacher training workshop**, under the supervision of King Abdulaziz & his Companions Foundation for Giftedness and Creativity .

The training is conducted by **Johns Hopkins University**  Dammam Apr. 22-23, 2015

* + Training Program of the Deanship of Quality Assurance and Academic Accreditation: **Learning outcomes - teaching strategies and methods of assessment**

King Faisal University, Dec. 23-24, 2014

* + Training Program of the Deanship of Academic Development

**Orientation and Training Program for New Faculty**

King Faisal University, Sep. 25-26, 2013

* + Training Program of the Deanship of Quality Assurance and Academic Accreditation: **Description of courses**

King Faisal University May. 12-13, 2013

* + Training Program of the Deanship of Quality Assurance and Academic Accreditation: **Basic concepts of quality**

King Faisal University ,Apr. 22-23, 2013

* + Training Program of the Deanship of Quality Assurance and Academic Accreditation: **Institutional and programmatic accreditation requirements**

King Faisal University, Mar. 10-11, 2013

* + Training Program of the Deanship of Quality Assurance and Academic Accreditation: **Activation of collegiality partnership programs**

King Faisal University ,Apr. 15-16, 2013

# COMMETTEE AND PROFESSIONAL SERVICE

* + Member of the Scientific Committee

College of Science, King Faisal University (2017/2018)

* + Member of the Committee of Quality Assurance

and Academic Accreditation

College of Science, King Faisal University (2015/2016)

* + Member of the Committee of final exams

College of Science, King Faisal University (2014/2015)

* + Member of the Committee of mid-term exams

Department of Mathematics

College of Science, King Faisal University (2014/2015)

* + Member of the Committee of mid-term exams

Department of Mathematics

College of Science, King Faisal University (2013/2014)

# RESEARCH INTERESTS

* + Numerical analysis.
  + Spectral discretization of axisymmetric domains.
  + Navier Stokes Equations.
  + Spectral and High order methods
  + Mortar Element Methods

# PUBLICATIONS

***Published***

* Abdellatif N., Chorfi N. Trabelsi S. (2011)

“*Spectral discretization of the axisymmetric vorticity, velocity and pressure formulation of the Stokes problem*”

**Journal of Scientific Computing**, [Vol 47, Number 3](http://www.springerlink.com/content/0885-7474/47/3/) (2011), 419-440

[**http://dx.doi.org/10.1007/s10915-011-9484-4**](http://dx.doi.org/10.1007/s10915-011-9484-4)

* Abdellatif N., Chorfi N. Trabelsi S. (2012)

*“Spectral discretization of the axisymmetric vorticity, velocity and pressure formulation of the Navier-Stokes problem”*

**Journal of Computational and Applied Mathematics**,

[Volume 241](http://www.sciencedirect.com/science/journal/03770427/241/supp/C), Pages 1–18 ,15 March 2013

[**http://dx.doi.org/10.1016/j.cam.2012.09.032**](http://dx.doi.org/10.1016/j.cam.2012.09.032)

# CONFERENCES ET COMMUNICATIONS

**ICOSAHOM 2012** : International Conference On Spectral

And High Order Methods.

June 2012, Gammarth, Tunisia

# OTHER RESEARCH ACTIVITIES

* + Member of the exanimating committee “Research and Article” report in Master Program “**Homotopy analysis method for solving some nonlinear differential**”

College of Science , King Faisal University

semester I, 1437/1438

* + Member of the exanimating committee “Research and Article” report in Master Program “**The Adomian decomposition method and Applications in Partial differential equations**”

College of Science , King Faisal University

semester I, 1437/1438

* + Member of the exanimating committee “Research and Article” report in Master Program “ **On Fuzzy Quasi metric spaces**”

College of Science , King Faisal University

semester II, 1435/1436

* + Member of the exanimating committee “Research and Article” report in Master Program

“ **Krylov subspace Methods for Solving Linear Systems**”

College of Science , King Faisal University

semester II, 1435/1436

* + Member of the exanimating committee “Research and Article” report in Master Program “**Fuzzy metric space**”

College of Science , King Faisal University

semester II, 1434/1435

* + Member of the exanimating committee “Research and Article” report in Master Program “**Cone metric space**”

College of Science , King Faisal University

semester I, 1434/1435

* + Member of the exanimating committee “Research and Article” report in Master Program “**Quasi metric space**”

College of Science , King Faisal University

semester I, 1434/1435

# COMMUNITY SERVICE

* + Coach of cryptology unit in **"Mawhiba Enrichment Program"** under the supervision of King Abdulaziz & his Companions Foundation for Giftedness and Creativity

King Faisal University, July 2015

* + Coach of cryptology unit in **"Mawhiba Enrichment Program"** under the supervision of King Abdulaziz & his Companions Foundation for Giftedness and Creativity

King Faisal University, July 2016

# COMPUTER SKILLS

* + Operating Systems OS : Windows , Linux
  + Editing : Latex, MS Word, MS Exel, MS Power Point, Internet Tools, Beamer
  + Development and programing : MATLAB.

# LANGUAGE SKILLS

* Arabic: Native Language.
* French : Conversation: good, written : good
* English : Conversation: good, written : good