

# CURRICULUM VITAE

## Personal information

- *Personal*
  - Dr. DEHILIS Sofiane
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## Education

- **Ph.D.'s degree** in Mathematics , Option: Numerical Analysis, University of Sétif 1.(2018)
- **Master's degree** in in Mathematics , Option: Numerical Analysis, University of Annaba. (1999)
- **License's degree** in in Mathematics, Option: applied mathematics, University of Sétif 1.(1996)

## Functions and Affiliations

- **2000-2007: Assistant Professor.** Department of Mathematics.University of Oum El Bouaghi
- **2007-2009 : detachment** (Long Term Internship) UNIVERSITEIT GENT , BELGIUM
- **2009 -2018: Assistant Professor, class: A.** Department of Mathematics and Informatics University of Oum El Bouaghi
- **2018 -2021: MC B:** Department of Mathematics and Informatics. University of Oum El Bouaghi
- **2018 to date :** MC A: Department of Mathematics and Informatics. University of Oum El Bouaghi
- **2016 to date : Head of mathematical specialty**

## Teaching modules

- 2000 to date : numerical analysis, analysis, algebra, differential equation, numerical method for ODE and PDE.

## International publications

1. *Marián Slodička, Sofiane Dehilis,*

Title : A numerical approach for a semilinear parabolic equation with a nonlocal boundary condition, Journal of Computational and Applied Mathematics, Volume 231, Issue 2, 15 , 2009, 715-724,

**2. Marián Slodička, Sofiane Dehilis,**

Title :A nonlinear parabolic equation with a nonlocal boundary term, Journal of Computational and Applied Mathematics, Volume 233, Issue 12, 15 April 2010, Pages 3130-3138, URL :<http://dx.doi.org/10.1016/j.cam.2009.07.059>.

**3. Dehilis sofiane, bouziani abdefatah, and oussaeif taki-eddine**

Title : Study of solution for a parabolic integrodifferential equation with the second kind integral condition, International Journal of Analysis and Applications  
Volume 16, Number 4 (2018), 569-593.

**4. Dehilis Sofiane, Bouziani Abdelfatah, Bensaïd Souad**

Title : A modified backward Euler scheme for the diffusion equation subject to nonlinear nonlocal boundary conditions, Eurasian journal of mathematical And computer applications, Volume 9, Issue 3 (2021) 26 – 38

**5. Bensaïd Souad, Dehilis Sofiane, Bouziani Abdelfatah**

Title : Explicit and Implicit Crandall's Scheme for the Heat Equation with Nonlocal Nonlinear Conditions  
International Journal of Analysis and Applications 19 (5) (2021), 660-673

**6. CHEBANA ZAINOUBA, OUSSAEIF TAKI-EDDINE, DEHILIS SOFIANE AND LEILA BENAOUA**

Title : A priori estimate and numerical study of solution for a parabolic equation with Nonlinear integral condition ,Bulletin of the Institute of Mathematics Academia Sinica (New Series) Vol. 17 (2022), No. 1, pp. 83-103.

**7. Dehilis Sofiane Taki Eddine Oussaeif Chebana Zainouba**

Title :Solvability and blow-up of the weak solution for a semi-linear Bessel problem with Neumann integral condition, Bulletin of the Institute of Mathematics Academia Sinica (New Series) Vol. 17 No. 4 (2022) P.439-P.475

## Interests and Qualifications

- **Interests:** PDE, Numerical methods, Nonlocal problems ,Inverse problem.
- **Qualifications:** Matlab, Fortran, Latex, English, French.