

Curriculum vitae



Family Name: MAHDJOUB

First Name: Tewfik

Address: Department of Ecology,
Faculty of Natural Sciences, Life Sciences, Earth and Universe,
University Abou Bekr Belkaïd, Tlemcen, Algeria,
BP 119, Tlemcen.

E-mails: tewfik.mahdjoub@univ-tlemcen.dz; mahdjoubtewfik@yahoo.fr
tewfik.mahdjoub@fulbrightmail.org

Tel: +213 673814610

Date of Birth: June 23rd, 1965

Nationality: Algerian

Degrees: Doctorate in Applied Mathematics (Mathematical Biology), December 2007.
Thesis entitled "Impact of prolonged diapause on the invasion speed of an insect population. Application of integrodifference equations."
Supervised by Professors F. Menu and S. M. Bouguima,
University Abou Bekr Belkaïd, Tlemcen, Algeria.

Magister in Functional Analysis, (Theoretical Physics), June 1989.
Dissertation entitled "Application of functional analysis to the problem of spinodal decomposition in polymers blend."
Supervised by Professors M. Benmouna and A. Boucherif,
University Abou Bekr Belkaïd, Tlemcen, Algeria.

Diploma of Higher Education, D.E.S in Mathematics- Analysis, June 1987.
University Abou Bekr Belkaïd, Tlemcen, Algeria.

Languages: Arabic: mother tongue,
French: excellent, language of instruction,
English: -B2 from CEIL, University of Tlemcen,
-Developmental English Course from The University of Texas At Arlington.

Academic Positions:

01/2021-currently Professor of Mathematics,
Department of "Ecology and Environment", University Abou Bekr Belkaïd, Tlemcen, Algeria.
Head of the research team "Spatio-temporal dynamics of biological populations".
Research laboratory: Nonlinear Analysis and Applied Mathematics, University Abou Bekr Belkaïd, Tlemcen, Algeria.

04/2012-12/2020 Associate Professor,
Department of "Ecology and Environment", University Abou Bekr Belkaïd, Tlemcen, Algeria.

Head of the research team "Spatio-temporal dynamics of biological populations".
 Research laboratory: Nonlinear Analysis and Applied Mathematics, University Abou Bekr Belkaïd, Tlemcen, Algeria.

- 09/2011-03/2012 Fulbright scholar,
 Department of Mathematics,
 University of Texas at Arlington, USA.
- 12/2007-08/2011 Associate Professor,
 Department of Ecology, University Abou Bekr Belkaïd, Tlemcen, Algeria.
- 12/2006-12/2007 Course lecturer,
 Department of Ecology, University Abou Bekr Belkaïd, Tlemcen, Algeria.
- 01/2006-12/2006 Scholar of the Algerian government,
 Laboratory of Biometry,
 University Claude Bernard Lyon 1, France.
- 01/1992-01/2006 Course lecturer,
 Department of Biology, University Abou Bekr Belkaïd, Tlemcen, Algeria.
- 07/1990-01/1992 Course lecturer,
 Department of Mathematics, Ecole Normale Supérieure, Ouargla, Algeria.
- 06/1989-07/1990 Course lecturer,
 Department of Biology, Biology I.N.E.S, Tlemcen, Algeria.
- 09/1988-06/1989 Assistant Professor,
 Department of Biology, Biology I.N.E.S, Tlemcen, Algeria.

Administrative positions:

- 06/2019-12/2021 Vice-Rector in Charge of Pedagogy, University of Tlemcen.
- 01/2016-12/2016 Vice-Dean in Charge of Pedagogy,
 Faculty of Natural Sciences, Life Sciences, Earth and Universe,
 University of Tlemcen
- 09/2015-12/2019 Assurance Quality cell's member,
 Faculty of Natural Sciences, Life Sciences, Earth and Universe,
 University of Tlemcen.
- 09/2012- 09/2013 Committee member of doctoral formation in Biomathematics.

Courses taught: Elementary Mathematics.
 Basic Statistics.
 Methods of multivariate analysis.
 Modeling techniques.
 Measure theory.
 Population dynamics.
 Programming and numerical analysis.
 Environmental data analysis.
 Statistics with software .
 Statistics and quality approach.

Statistics and experiments.

Data analysis with .

Information and Communication Technology.

Publications:

Benarbia N, Labbas R, Mahdjoub T, et al., Analytic semigroup generated by the dispersal process of a sylvatic transmission model of Chagas disease, accepted in The IMA Journal of Applied Mathematics.

Dib-Baghdadli N, Labbas R, Mahdjoub T, et al., On some reaction-diffusion equations generated by non-domiciliated triatominae, vectors of Chagas disease, Discrete Contin Dyn Syst-Ser B (2021) 26: 6091–6091.

N. El Saadi, A. Bah, T. Mahdjoub, C. Kribs, On the sylvatic transmission of *T. cruzi*, the parasite causing Chagas disease: a view from an agent-based model, Ecological Modelling. 423 (2020) 109001.

Bouchaour-Djabeur S, Benabdell K, Taib N, et al. Variabilité de la glandée de *Quercus suber* L. dans le massif forestier Hafir-Zarieffet (Monts de Tlemcen, Nord-Ouest algérien). Geo-Eco-Trop (2020) 44: 487–501.

T. Mahdjoub, C. Kribs, Assessing the invasion speed of triatomine populations, Chagas disease vectors, Revista de Matemática: Teoría y Aplicaciones.27 (2020) 73–92.

M. Mesk, T. Mahdjoub, S. Gourbière, J.E. Rabinovich, F. Menu, Invasion speeds of *Triatoma dimidiata*, vector of Chagas disease: An application of orthogonal polynomials method, J. Theor. Biol. 395 (2016) 126–143.

Mahdjoub, T., Ouaddah, E., and Hakem, A., 2015. Exploitation optimale d'une ressource renouvelable forestière soumise à un environnement stochastique. Les actes du Med Suber 1: 1ère Rencontre Méditerranéenne Chercheurs-Gestionnaires-Industriels sur la Gestion des Subéraies et la Qualité du liège. Les 19 et 20 octobre 2009, Université de Tlemcen, 168:175.

Bendimerad, S., Mahdjoub, T., Bibi-Triki, N., Bessenouci, M.Z., Draoui, B., and Bechar, H., 2014. Simulation and Interpretation of the BIBI Ratio CB (.), as a Function of Thermal Parameters of the Low Inertia Polyethylene Wall of Greenhouses. Physics Procedia 55, 157-164.

Bendimerad, S., Mahdjoub, T., Bibi-Triki, N., Bessenoussi, M.Z., Draoui, B., Nakoul, Z., and Khelladi, S., 2013. Modélisation, caractérisation, simulation et interprétation du comportement thermique de la paroi à inertie faible d'une serre tunnel expérimentale à l'aide du quotient de Bibi CB (.). Revue des Energies Renouvelables 16 (1) 143 -157.

Bibi-Triki, N., Bendimerad, S., Chermiti, A., Mahdjoub, T., Draoui, B., and Abene, A.. Modeling, Characterization and Analysis of the dynamic behavior of heat transfers through polyethylene and glass walls of Greenhouses, in: Hamieh, T., (Ed.), Seventh International Conference on Material Sciences, Vol. 21. 2011.

Mahdjoub, T., and Menu, F., 2008. Prolonged diapause: A trait increasing invasion speed? Journal of Theoretical Biology 251, 317-330.

PhD thesis supervision:

DIB-BAGHDADLI Nabahats Adiba,

Thesis entitled "Application of abstract differential equation (ADE) theory to population dynamics problems",
University Abou Bekr Belkaïd, Tlemcen,
Thesis defended on March 28th 2022.

MESK, Mohammed,
Thesis entitled " Invasion speed of *Triatoma dimidiata*, vector of Chagas disease: application of integrodifference equations and orthogonal polynomials",
University Abou Bekr Belkaïd, Tlemcen,
Thesis defended on June 2nd 2016.

**Research
Support:**

PRFU: COOL03UN130120220001, University of Tlemcen, 2022-2025. Role: PI.

PISE: 20/Univ-Tlemcen/DGRSDT, 2019-2022. Role: PI.

CNEPRU: C00L03UN130120130044, University of Tlemcen, 2014-2017.
Role: PI.

The Fulbright Program, grant id: 68435333. (USA), 9/2011-3/2012. Role: PC.

PNR (Pêche et Aquaculture) 2/U13/426, 2011-2014. Role: PI.

CNEPRU: B02020090004 University of Tlemcen, 2010-2013. Role: PI.

ANR-MIE (France) 01/2009-12/2013. Role: PC.

Conferences:

Chairman of the International Conference on Mathematics for the Natural and Life Sciences-ICMNLS 2014, Tlemcen, 9-11 November 2014.

Organizations:

Member of the European Society for Mathematical and Theoretical Biology (ESMTB) since 2008, <https://www.esmtb.org/>

Member of ExchangeAlumni since 2012, <https://alumni.state.gov/>