



Farid FLICI

Statistician - Actuary

PB. 197, Street Djamal-Eddine El-Afghani, Rostomia,
Bouzareah 16011, Algiers, Algeria.
Cell: +213 553 944 366
Office: +213 23 18 00 88 ext. 138
e-mail: farid.flici@cread.dz / farid.flici@gmail.com



ORCID: <https://orcid.org/0000-0002-1954-2120>
Web of Science Researcher ID: AAC-3268-2019
Scopus Author ID: 57209236573

CURRENT POSITION

Senior Researcher – Since March 2017
Researcher – Since April 2012

Research Center in Applied Economics for Development (CREAD),
PB. 197, Street Djamal-Eddine El-Afghani, Rostomia, Bouzareah 16011, Algiers, Algeria.
Department: Human Development and Social Economics (Managing Director, Since March 2021)
Team: Population Studies.
Working Group: Actuarial Demography (Leader).

Expert-Actuary agreed by the Algerian Union of Insurance and Reinsurance Companies - Since 5/2024
Expert at the National Committee for Population (Algeria) – Since March 2018.
Member of the National Council of Statistics (Algeria) – Since May 2021.

EDUCATION

- 06/2024: Research Director (Equivalent of Full Professor).
HDR Accreditation, Higher School of Statistics & Applied Economics (ENSSEA, DZA).
- 02/2017: PhD in Statistics & Applied Economics at ENSSEA- Subject: [Longevity and Pension Plan Sustainability in Algeria: Taking the retirees mortality experience into account](#).
- 2011 : Post-graduation in Quantitative Finance (ENSSEA) - Subject: [Provisionnement des Rentes Viagères en Algérie entre Approche Statique et Approche Prospective](#).
- 2006: Graduation in Finance & Actuarial Science (ENSSEA) - Subject: The determinants of Civil Responsibility Car insurance premiums in Algeria.
- 2001: Baccalaureate in Nature and Life Sciences.

TEACHING EXPERIENCE

- Regular seminars on Life Insurance & Retirement (Seminar) at EHEA (School of Higher Studies in Insurance, Algiers, Algeria). 2019 - now.
- Population Projections with R – including dynamic presentations (Tutorial) at UNISA Actuarial School, September 2018, Salerno, Italy.
- Risk modelling in Life Insurance, Higher School of Social Security (ESSS), Algiers, 2017-18.
- Demographic Analysis and Micro-Economics for Insurance (ENSSEA). 2009- 2013.

RESEARCH INTEREST

- Mortality & Longevity Modelling: Morbidity, Population ageing.
- Retirement Systems Sustainability;
- Also interested in Computational Social Science and Digital Demography;

PUBLICATIONS

Flici, F. Dominguez-Fabian, I. (2024). Sustaining Algeria's Retirement System in the Population Aging Context: Could a Contribution Cap Strategy Work? *Risks*, 12(6), 96. <https://doi.org/10.3390/risks12060096>

Flici, F. & Cinoune, M. (2024, in press). Algerian Elderly Are Living Longer but Less Healthier, *Population Medecine*, xx:xx-xx.

Chinoune, M. & Flici, F. (2024, in press). Which Chronic Diseases Contribute the Most to Healthy Years Lost in Algeria, *Chronic Illness*, xx: xx-xx.

Flici, F.(2023). The limits of parametric reforms in sustaining the Algerian retirement system in a context of population ageing. *International Social Security Review*, 76(3):47-67. <https://doi.org/10.1111/issr.12335>

Assas, H., Flici, F., Saidi, G., & Hannani, Y. (2023). Construction Of Experience Life-tables For The Algerian Survivor Pensions' Beneficiaries. *Les Cahiers du CREAD*, 39(2):341-363.

Chinoune, M., Flici, F., & Saidi, G.(2023). Analysis of the recent evolution of healthy life expectancy in the MENA region with a focus on Algeria. *Tanzania Journal of Health Research*, 24(1):1-10.

Flici, F., & Chinoune, M. (2022). Analysis of Recent Changes in Chronic Disease-Free Life Expectancy in Algeria. *Eastern Mediterranean Health Journal*, 28(12):872-878. doi:10.26719/emhj.22.091

Flici, F. (2022). Rethinking the contribution-benefit linkage in Pay-As-You-Go retirement systems based on the Algerian case. *Revija za Socijalnu Politiku*, 29(2), 281-295.. doi: 10.3935/rsp.v29i2.1822

Flici, F., & Kouaouci, A. (2021). Population ageing in Algeria: Why should we start caring about? [Policy Brief A/2021/01]. Research Center in Applied Economics for Development CREAD, Algiers, Algeria. URL:<http://cread.dz/wp-content/uploads/2021/12/A202101.pdf>

Flici, F. and Hammouda, N.E. (2021). Mortality Evolution in Algeria: What Can We Learn About Data Quality? *Vienna Yearbook of Population Research* 19: 1-22. <https://doi.org/10.1553/populationyearbook2021.res1.3>

Flici, F. (2021). Coherent Mortality Forecasting for the Algerian Population. *Insurance and Risk Management Journal* 87 (3-4): 209-231. <https://doi.org/10.7202/1076125ar>

Flici, F. (2020). Analyzing the Trend of Life Expectancy Evolution in Algeria from 1962 to 2018: The S-logistic Segmentation with Jumps. *Population Review* 59(1): 56-72. 10.1353/prv.2020.0002

Flici, F. and Planchet, F. (2020). Financial Sustainability of the Algerian System: a perspective analysis of the 50 coming years. In Peris-Ortiz, M.; Alvarez-Garcia, J.; Dominguez-Fabian, I. and Devolder, P. (Eds), *Economic Challenges of Pension Systems- A sustainability and International Management Perspective*, Springer Nature, Switzerland. https://doi.org/10.1007/978-3-030-37912-4_13

Flici, F. (2020). Closing-Out the Algerian Life Tables: for More Accuracy and Adequacy at Old-Age. *Actuarial Research Clearing House*, 2020(2), 2.

Flici, F. and Planchet, F. (2019). Experience Prospective Life-Tables for the Algerian Retirees. *Risks*, 7(2), 38, <https://doi.10.3390/risks7020038>

Flici, F. (2019). On the redesign of Pay-As-You-Go retirement systems: Towards more generational and inter-generational equality. Conference Proceeding of the 17th International Pensions Workshop, Paris, France (May).

Flici, F., Senouci, K. et Hannani, Y. (2017). Tables de mortalité d'expérience incorporant une échelle de projection: adaptation au cas des retraites en Algérie. *Bulletin Français d'Actuariat* 17(34) : 5-32.

Flici, F. (2016). Provisionnement des rentes viagères en Algérie entre approche statique et approche prospective. *Bulletin Français d'Actuariat*, 16 (31) : 5-40.

SELECTED CONFERENCES PRESENTATIONS / WORKING PAPERS

Flici, F. (2024). "Chronic Disease-Free Life Expectancy in Algeria: Recent Evolution and Future Prospects", 2nd Arab Actuarial Conference, 23-25 April 2024, Tunis (Tunisia). [Records]

Flici, F. (2024). "On health expectancy projection methodology: The morbidity-mortality model", 1st Algerian Conference on Stochastic Analysis with Applications to Finance, energy, and Insurance. March 6th, 2023, Algeria (Online).

Flici, F. (2024). "The use of actuarial life tables in life insurance pricing in Arab countries", Talk at the Webinar of the General Arab Insurance Federation on "The Arab Insurance Industry and The Increasing Role of Actuaries", January 24th, 2024.

Flici, F. (2023), "Managing Demographic Risks in PAYG Pension Plans: the Case of Algeria", 1st Eurasian Actuarial Conference, Nov. 16-17. Almaty (Kazakhstan, online)

Flici, F. (2023), "Sustaining Algeria's Retirement System in a Population Aging Context: Could a Contribution Cap Strategy Work?", Presented at the 2nd CEPAR International Conference, UNSW Sydney (Australia), 3-5 July 2023.

Flici, F. (2023). "Population aging and retirement sustainability in Algeria", Presented at the 1st Arab Actuarial Conference, Cairo (Egypt), 9-11 May 2023. [Records]

Flici, F. (2022). "The Limits of Parametric Reforms in Sustaining the Algerian Retirement System in front of Population Ageing", Presented at IPRA Online Session of the 30th Colloquium on Pensions and Retirement Research, CEPAR - Sydney, Australia (December). [Records]

Flici, F. (2021). The limits of parametric reforms in maintaining the financial sustainability of the Algerian retirement system. Talk at "Pension Systems Sustainability in Face of Population Ageing" Conference organised by CREAD on December 23, 2021 (Algiers). [Records]

Flici, F. (2019). On the redesign of PAYG Retirement Systems: towards more generational and intergenerational equality, IAA Section Colloquium, Cape-Town (April). [Records] Also presented at the Webinar of the IAA-PBSS Section, on July 18th, 2019. [Slides]

Chinoune, M. and Flici, F. (2019). Assessing the quality of national life tables in Algeria using specific surveys. Conference paper. 8th African Population Conference, Entebbe, Uganda (November).

Flici, F. (2019). Closing-out the Algerian life-Tables: for More Adequacy and Accuracy at Old Age. Conference paper. 8th African Population Conference, Entebbe, Uganda (November).

Flici, F. and Planchet, F. (2018). Sustainability of the Algerian Pension System. *International Congress of Actuaries*, Berlin (Germany), June 2018. Presented also at the *International Pensions Workshop*, Lisbon (Portugal), Mai 2018 and at *UNISAct 2018* (Paestum, Italy).

Flici, F. and Planchet, F. (2017). Construction of a dynamic life table based on the Algerian retired population mortality experience, Insurance: Mathematics and Economics IME, Vienna (July).

Flici, F. (2016). Longevity and Life Annuities Reserving in Algeria: Comparison of mortality models, International Actuarial Association – IAALS Conference, Hong Kong, April 2016. (Abstract)

Flici, F. (2016). Coherent Mortality Forecasting for the Algerian Population". SAMOS Conference in Actuarial Sciences and Finance ASF2016, Samos, Greece, May 2016.

Flici, F. (2015). Longevity and Life Annuities Reserving in Algeria: Comparison of mortality models, Longevity 11 Conference, Lyon, France, September 2015.

Flici, F. (2014). Longevity and life annuity reserving in Algeria: the use of multi-components Lee Carter model, East Asian Actuarial Conference EAAC. October 2014. Taipei-Taiwan.

Flici, F. (2014). Estimation of the missing life tables in the Algerian mortality Surface (1977- 1999) by using the Lee-Carter formula, SMTDA-2014. June 2014, Lisbon. Portugal.

Flici, F. and Hammouda, N.E. (2014). Analysis of half-century of mortality evolution in Algeria: 1992 -2012, Middle East Economics Association MEEA Conference. June 2014. Tlemcen (DZ).

RESEARCH PROJECTS AND STUDIES

Ongoing

Analysing Social and Solidarity Economy in Algeria, for UNDP and Algerian Ministry of Labor, Employment, and Social Security - Role: Project Manager.

2023

Analysing Health Extreme Expenditures in Algeria - Role: Project member, Task: Analysing Disability and Chronic Diseases prevalence.

2021-2022 (ongoing)

- The Future of Longevity, Health and Ageing in Algeria: Implication on Social Security and Life Insurance, CREAD, Role: Project Manager. https://rpubs.com/Farid_Flici/783776

- Inequalities in Life Expectancy and Healthy Life Expectancy Between Emigrants and Native Born Population in Europe, Centre d'Estudes Demografics (Barcelona), Role: Project Manager.

2019-2020

Flici, F. and Hammouda, N.E. (2020). *"Mortality in Algeria through MICS-VI survey"*. Technical Report, The Algerian Health Ministry and the UN Funds for Population UNFPA.

September 2015- September 2016

Flici, F. (2016). "Mortality projection for the Algerian population by 2030". In collaboration with the National Committee for population in the framework of the "population projection project" conducted by the Algerian Health Ministry.

January 2015 – June 2016

Flici, F. and Hammouda, N.E. (2016). "Mortality Analysis for the Algerian population through the MICS-IV survey". For the Algerian Health Ministry and the UN Funds for Population UNFPA.

May 2013 – December 2014

"Evaluation of the consistency and efficiency of the Social protection programs in Algeria". For the Algerian prime ministry. Directed by UNICEF – Algeria and assisted by Oxford Policy Management. Missions: Data Collecting, Social Expenditure analysis, and Institutional coordination.

COURSES, TUTORIALS, R PACKAGES & DATAFILES

- Flici, F. (2020). Population Projections Using R - Including Dynamic Graphical Visualisations. A textbook published with Gitbook, [<https://farid-flici.gitbook.io/pop-proj-dz/>], V. 2020-04-30.
- Flici, F. (2020). Multi-Scenarios Populations Projection for Algeria - Using R . A textbook published with Gitbook [<https://farid-flici.gitbook.io/multi-scenarios-population-projection-for-algeria/>], V. 2020-05-06.
- Flici, F. (2020). R basics – Data manipulation, an R tutorial. Available at: [https://rpubs.com/Farid_Flici/R_basics_18_05_2020], Version of 2020-05-18.
- Package Q2q: Interpolating Mortality Rates at All Age, Version 0.1.0, Author & Maintainer: Farid Flici (2020), [<https://cran.r-project.org/web/packages/Q2q/index.html>].
- Flici, F. (2020). Multi-scenarios Population Projection for Algeria (Version: 1) [Data file]. DOI: <https://doi.org/10.17605/OSF.IO/XWZ3T>, Retrieved from osf.io/xwz3t

INVOLVEMENT IN CONFERENCES ORGANISATION

- Co-chairman of the 1st International Conference on Applied Mathematics in Economics, 23-24 Oct. 2024, Bejaia (Algeria). <https://amie2024.sciencesconf.org/>
- Co-Organizer of the 1st Algerian Conference on Stochastic Analysis with Applications to Finance, Energy, and Insurance, 6-March-2024, (Online).
- Scientific Chair of the Conference on Social Security Sustainability, December 17, 2023, Algiers (Algeria), In collaboration with the Algerian Association of Social Security Executives. (Invited Speakers: Dr. Walid Merouani, Dr. Djamila Mendil, Mr. Mustapha Haouchine, Mr. SidAhmed Taibi).
- Organiser of the Conference on Population Aging and Retirement Sustainability, December 23, 2022, Algiers (Algeria). Invited Speakers: Mendil, D.; Salhi, T.; Afonso, L.E.; Palmer, J.A.
- Member of the scientific advisory board of One World Actuarial Research Seminar (OWARS), <https://owars.info/>
- Collaborating a training on "Data Science for Life and Health Insurance" in Algiers with "Actuaries Without Borders AWB" in December 2018.
- Organiser of 7 Editions of JAVA (Journée d'Actuariat Vie Algérie), between January 2016 to December 2018. Invited Speakers: Mehireche, M.; Senouci, K.; Boumezoued, A.; Arnold, S.; Kamega, A.; Labit-Hardy, H.; Ghernouti, A.

ACADEMIC SUPERVISING

<i>Ongoing</i>	• Estimating chronic disease-free life expectancy for insured workers in Algeria (ESSS)
	• Recent trends of disability-free life expectancy for insured workers in Algeria (ESSS)
	• Recent trends of disability-free life expectancy in Algeria, Engineer thesis (ENSSEA)
	• Expert-based population projections for Algeria, Engineer thesis (ENSSEA).
	• Estimating and Projecting Regional Mortality in Algeria, PhD thesis (ENSSEA).
	• The future of longevity and Health in Algeria, PhD thesis (ENSSEA).
<i>2016-18</i>	• Modelling survivor Benefits in the Algerian pension plan, PhD thesis (ENSSEA).
	• Algerian Retirement System Sustainability: a Multi-scenarios Analysis, Master Thesis. Higher School of Social Security (ESSS, Algeria).
	• Disease-free life expectancy: Social security based estimates, (ESSS, Algeria).
<i>2015-16</i>	• The limits of parametric reforms of the Algerian retirement system in the face of population ageing, Master thesis (ESSS).
	• Prospective experience life-tables for Algerian retirees, Master thesis (ESSS).
<i>2012-14</i>	• Actuarial life tables for social security in Algeria, Master thesis (ESSS).
	• Disability tables for the building sector in Algeria, Master thesis (ENSSEA).
<i>2011-12</i>	• Life tables for insurance for Bank credit Insurance, Master thesis (ENSSEA).
	• Continuous time approach for life annuities reserving, Master thesis (ENSSEA).

TRAINING & RESEARCH VISITS

- Visiting Researcher at El Centre d'Estudis Demografics (CED - Barcelona), May 2024.
- Visiting Researcher at El Centre d'Estudis Demografics (CED - Barcelona), September 2021.
- Participation in the IDEM 117 course: Advances in Mortality Forecasting organised by the Max Planck Institute for Demographic Research (MPIDR) in June 2021.
- Participation at the IDEM 187 course: Digital and computational Demography organised by the MPIDR in November 2020.
- Participation in an online course on "Data Visualisation" organised by the MPIDR in July 2020.
- Visiting Researcher at Universidad de Extremadura (Caceres, Spain), October 2018.
- Participation at "Rostock Retreat" organised by "the MPIDR in June 2017, Rostock (Germany).
- Participation at UNISActuarial School, University of Salerno, Italy, 22-25 October 2016.
- January - June 2015: Visiting researcher at ISFA (Institut de sciences financières et d'assurance- Lyon) Laboratory 'Sciences Actuarielle et Financiere'.
- October 2013: Participation at the regional training workshop of ISESCO (Rabat- Morocco) on Visualisation and analysis of online surveys data.

OTHER ACTIVITIES

- Volunteer in the Global Actuarial Initiative (GAIN) by UNDP and Milliman, Mentor in Pensions and R.
- Member of the Network for Data-Intensive Research on Ageing ([NDiRA](#), Minnesota) since 11/2023.
- Member of the MENA Network on Ageing and Health ([MENARAH](#), London) since 04/2023;
- Research affiliate at [CEPAR](#), UNSW Sydney since February 2023.
- Scientific advisor at the "Algerian Association of Social Security Executives (AASSE)" since 09/2022.
- Member of the Technical Committee of the "Multi Indicators Cluster Survey MICS -Wave VI (2018)" by UNICEF and National Health Ministry. Role: Expert on Mortality and Health issues.
- Member of the "Mortality Working Group" of the "IAA" since 2016.
- Former board member at CREAD from 2014 to 2018.
- Interim Managing Director of the HDSE Research Department of CREAD from 02/2020 to 04/2020.
- Creating and leading "[The Actuarial Demography Team](#)" at CREAD in January 2018.

MEDIAS

- “The Future of Population Ageing in Algeria”, blog for MENARAH Network (MENA Research on Aging and Health Research), London, May 9th, 2023.
- “World Population Ageing: consequences and solutions”, in Experts’ Opinion of DevelopmentAid, March 23, 2020.
- “Training on Data Science for Life & Health Insurance, CREAD, December 2018 in collaboration with AWB®”, SOA International newsletter, n°77, May 2019, Society of Actuaries, NY (USA).
- Interview for Actex Learning newsletter – Actuaries around the world, May 2019, NY (USA).
- Le Courier d’Algérie, Juillet 2018, « Les études de la population sont primordiales dans l’élaboration des politiques publiques»
- Canal Algérie, Juillet 2018, « Vieillissement de la population Algérienne ».
- Le reporter, Juillet 2016, « faire face au vieillissement de la population et ses implications socio-économiques».

QUALIFICATIONS

- Languages: English, Arabic, and French.
- Statistical Software: R (Including R-Shiny and R-Markdown).
- Editing Software: Word, Latex, Beamer, Markdown, Lyx, HTML5.

HOBBIES

Football, Mountain biking, kayaking, fishing, Litterature, Domino.

ACADEMIC PLATFORMS & SOCIAL MEDIAS

IDEAS	EconPapers	Repec
ResearchGate	Google Scholar	LinkedIn
Facebook	Twitter	YouTube Channel

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