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Statistician - Actuary

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CURRENT POSITIONS

Visiting Researcher - January to December 2025.

London School of Hygiene and Tropical Medicine (LSHTM, UK) - Population Studies Group.

Senior Research Fellow – Since March 2017, Permanent Researcher – Since April 2012.

Research Center in Applied Economics for Development (CREAD, Algiers) - Human Development and Social Economics Research Department (Department Manager from 03/2021 to 01/2025) - Population Studies Team - Actuarial Demography Working Group (Leader).

National Expert-Actuary - Since May 2024

Certified by the Algerian Union of Insurance and Reinsurance Companies (UAR, agreement No. 087/20024);

Individual Consultant - Since Oct 2024

United Nations Fund for Population (UNFPA, Algiers).

Individual Consultant - Since Nov 2024

United Nations Economic and Social Commission for Western Asia (UNESCWA, Beirut).

Advisor on pensions and social security - Since Sept 2024

National Economic, Social, and Environmental Council (CNESE, Algeria).

OTHER POSITIONS

Mentor & Volunteering Mentor at UNDP-Milliman, Global Actuarial Initiative -GAIN, Since 03/2024.

Designated Member of the National Council of Statistics (Algeria) – Since 05/2021, President of the Social Statistics Commission.

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 02/2023.

Vice-President of the Algerian Association of Actuaries (ALGAA, awaiting for agreement).

Academic Advisor of the Algerian Association of Social Security Executives (AASSE) since 09/2022.

Expert at the National Committee for Population (Algeria) – Since 03/2018.

Fully Accredited Researcher by the Office of National Statistics of the UK (03/2025-03/2030).

BACKGROUND

06/2024: **Research Director** (Equivalent of Full Professor).

02/2017: **PhD** in Statistics & Applied Economics at ENSSEA (Kolea, Algeria) - 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

- Volunteering instructor at the Actuarial Faculty Development Program - AFDP, as part of the GAIN (Global Actuarial INitiative), an UNDP & Milliman project to promote actuarial sciences in developing countries - Role: Instructor of "R for Actuaries" and "Pensions".
- Regular seminars on Life Insurance & Retirement at EHEA (School of Higher Studies in Insurance, Algiers, Algeria). Since 2019.
- Population Projections with R – including dynamic presentations (Tutorial) at UNISA Actuarial School, September 2018, Salerno, Italy.
- Actuarial models for social security, Higher School of Social Security (ESSS), Algiers, 2017-18.
- Statistics at INSIM, (Boumerdes, Algeria), 2012-2013.
- Quantitative Methods, at ISGP (Algiers, Algeria), 2013.
- Quantitative Methods, Algerian Higher Business School (ESAA), 2012.
- Demographic Analysis and Micro-Economics for Insurance (ENSSEA). 2009- 2013.

RESEARCH INTERESTS

- Mortality & longevity, morbidity, population ageing, migrant mortality advantage;
- Retirement Systems Sustainability;
- Also interested in Computational Social Science and Digital Demography;

PUBLICATIONS

Flici, F.; Chinoune, M. (2024). Algerian elders are living longer lives, but shorter lives free of chronic diseases: An analysis of the 2006-2019 period. *Population Medicine*, 6(31), 1–8. <https://doi.org/10.18332/popmed/196709>

Chinoune, M. & Flici, F. (2024). Which Chronic Diseases Contribute the Most to Healthy Life Years Lost in Algeria, *Chronic Illness*, 2024: 1-10.. <https://doi.org/10.1177/17423953241264875>

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.(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.; Domínguez-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., 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 CONFERENCE PRESENTATIONS & WORKING PAPERS

Flici, F. (2024). [Rethinking the Contribution-Benefit Linkage in PAYG Retirement Systems](#), 2nd Eurasian Actuarial Congress, 21-22 Nov 2024, Almaty (Kazakhstan, Online)[[Records](#)]

Flici, F. (2024), ["Managing Demographic Risks in PAYG Pension Plans"](#), 1st International Conference in Applied Mathematics in Economics (AMiE), 23-24 Oct 2024, Bejaia (Algeria).

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 (Nov).

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 (Nov).

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). [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, also presented at the International Actuarial Association – IAALS Conference, Hong Kong, April 2016. ([Abstract](#))

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

01/2025-12/2025: "Analyzing Native-Migrant Mortality and Health Inequalities in the UK: A focus on MENA-Originated Migrants", at London School of Hygiene and Tropical Medicine (LSHTM), a project funded by the Arab Fund for Economic and Social Development (AFESD). In Collaboration with Dr. José Manuel Aburto. Role: Project Manager.

09/2021-09/2024: "Inequalities in Life Expectancy and Healthy Life Expectancy Between Emigrants and Native Born Population in Europe", at Centre d'Estudes Demografics (Barcelona), a project funded by the European Union's Horizon 2020 research and innovation programme. In collaboration with Dr. Sergi Trias-Llimos and Dr. Inaki Permanyer. Role: Project Manager.

01/2021-04/2024: "The Future of Longevity, Health and Ageing in Algeria: Implication on Social Security and Life Insurance", a project funded by CREAD, Role: Project Manager. https://rpubs.com/Farid_Flici/783776

STUDIES

09/2024-03/2025: "Reform proposal for the Algerian Social Security System", a project of the National Economic, Social, and Environmental Council. Role: Advisor on Pensions and Health Insurance.

12/2023-02/2025: "Analysing Social and Solidarity Economy in Algeria", for UNDP and Algerian Ministry of Labor, Employment, and Social Security - Role: Project Manager.

01/2023-12/2023: "Analysing Health Extreme Expenditures in Algeria" - Role: Project member, Task: Analysing Disability and Chronic Diseases prevalence.

05/2013-12/2014: "Assessing the consistency and efficiency of the Social protection programs in Algeria". For the Algerian prime ministry. Directed by UNICEF and assisted by Oxford Policy Management. *Missions:* Data Collect, Social Expenditure analysis, and Institutional coordination.

CONSULTING ACTIVITIES

12/2024-05/2025 : “Mapping Elderly Protection National Mecanismes in Algeria”, a Project Funded by the United Nations Funds for Population (UNFPA- Algiers) and Collaborated with the Algerian Ministry of National Solidarity. Role: Individual Consultant.

12/2024-03/2025 : “MENA Elderly Abuse Report”, a Project Funded by the United Nations’ Economic and Social Commission for Western Asia (UNESCWA-Beirut). Role: Individual Consultant, Statistical Analysis.

09/2015-09/2016: “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. Role: Individual Consultant.

01/2015-06/2016: “Mortality Analysis for the Algerian population through the MICS-IV survey”, for the Algerian Health Ministry and UNFPA. In collaboration with Dr. Nacer-Eddine Hammouda.

06/2019-06/2020: “Mortality in Algeria through MICS-VI survey”, for the Algerian Health Ministry and UNFPA. In collaboration with Dr. Nacer-Eddine Hammouda.

RESEARCH GRANTS & AWARDS

- The “Distinguished Scholar Award” by the “Arab Fund For Economic and Social Development (AFESD) - 2024/2025.
- InGRID-2 research grant 2021. The grant is funded by the European Union's Horizon 2020 research and innovation programme, grant agreement No 730998.

COURSES MATERIALS, TUTORIALS, R-PACKAGES, WEB APPS & DATAFILES

Flici, F.; Fodil-Bouras, NS (2024). “A survey tool to gather expert views on the future demographic trends in Algeria”. <https://faridflici.shinyapps.io/eppdz/>

Flici, F. (2024). Package Q2q: Interpolating Mortality Rates at All Age, Version 0.1.2, Author & Maintainer: Farid Flici (Dec 2024) [<https://cran.r-project.org/web/packages/Q2q/index.html>].

Flici, F. (2022). “The Retirement Sustainability Simulator”, a web-application to simulate the future financial balance of the Algerian retirement system in function of environment parameters and reform actions. url: <https://farid-flici.github.io/rss.html>

Flici, F. (2021). “The population projection simulator”, a web-application providing customized population projections for Algeria based on different future evolution scenarios about mortality and fertility. url: <https://farid-flici.github.io/pps.html>

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). Muti-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

Ongoing:

- Estimating and Projecting Regional Mortality in Algeria, PhD thesis at ENSSEA.
- Inequalities in healthy life expectancy in Algeria: Does affiliation to social security matter?, a Master Thesis at Paris-Saclay University (France).

2019-24

- The future of longevity and Health in Algeria, a PhD thesis at ENSSEA, successfully defended in April 2024.
- Modelling survivor Benefits in the Algerian pension plan, at ENSSEA, successfully defended in June 2024.
- Estimating chronic disease-free life expectancy for insured workers in Algeria, a Master thesis at ESSS (Algiers).
- Recent trends of disability-free life expectancy for insured workers in Algeria, a Master thesis at ESSS (Algiers).
- Recent trends of disability-free life expectancy in Algeria, a Master thesis at ENSSEA (Algiers).
- Expert-based population projections for Algeria, Engineer thesis a Master thesis at ENSSEA.

2016-18

- 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).
- The limits of parametric reforms of the Algerian retirement system in the face of population ageing, Master thesis (ESSS).

2015-16

- Prospective experience life-tables for Algerian retirees, Master thesis (ESSS).
- Actuarial life tables for social security in Algeria, Master thesis (ESSS).

2012-14

- Disability tables for the building sector in Algeria, Master thesis (ENSSEA).
- Life tables for insurance for Bank credit Insurance, Master thesis (ENSSEA).

2011-12

- Continuous time approach for life annuities reserving, Master thesis (ENSSEA).

PEER-REVIEWING ACTIVITIES

- Eastern Mediterranean Health Journal - Since 2025.
- The World Health Organization Bulletin - Since 2024.
- The International Social Security Review - Since 2023.
- Athens Journal of Social Science - Since 2019
- Les Cahiers du CREAD - Since 2017.
- Revue d'Economie Appliquée - Since 2017.

PHD DISSERTATION EXAMINATION

- Aliou Yattara, Déterminants économiques, socioculturels, et institutionnelle de la demande d'assurance vie au Mali, Institut de Pédagogie Universitaire (IPU, MALI), 10/2024.

TRAINING & RESEARCH VISITS

- Visiting Researcher at London School of Hygiene and Tropical Medicine, 01/2025-12/2025.
- Visiting Researcher at El Centre d'Estudis Demografics (CED - Barcelona), June 2024.
- Visiting Researcher at El Centre d'Estudis Demografics (CED - Barcelona), September 2021.
- Attending various Courses of the Max Planck Institute for Demographic Research (MPIDR, Rostock - Germany) - IDEM 117: *Advances in Mortality Forecasting*, June 2021 - IDEM 187: *Digital and computational Demography*, November 2020 - *Data Visualisation*, 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 PREVIOUS ACTIVITIES

- Director of the Human Development and Social Economics Research Department at CREAD from 03/2021 to 01/2025, and interim Director from 02/2020 to 04/2020.
- 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" from 01/2016 to 12/2019 .
- Former board member at CREAD from 2014 to 2018.
- 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, 05/2019, 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, « [Vieillessement 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
ResearchGate
Facebook

EconPapers
Google Scholar
Twitter

Repec
LinkedIn
YouTube Channel

Updated on April 2nd, 2025.