



## Farid FLICI

Statistician - Actuary

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### CURRENT POSITION

**Senior Researcher** – Since March 2017  
**Researcher** – Since April 2012

Centre for Research 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 at the National Committee for Population (Algeria) – Since March 2018.  
Member of the National Council of Statistics (Algeria) – Since May 2021.

### EDUCATION

- 04/2019: HDR Accreditation, Higher School of Statistics and Applied Economics (ENSSEA, DZ).  
02/2017: PhD in Statistics and 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 High Studies in Insurance, Algiers, Algeria). (2019 - ongoing)
- 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: Experience Mortality; Coherent Mortality Modelling.
- Retirement Systems Sustainability;
- Longevity & Health;
- Also interested in Computational Social Science and Digital Demography;

## PUBLICATIONS

Flici, F. & Chinoune, M. (Forthcoming). Analysis of recent changes in chronic disease-free life expectancy in Algeria. *Eastern Mediterranean Health Journal*, xx(x), xx-xx.

Flici, F. (2022 - Forthcoming). Rethinking the contribution-benefit linkage in Pay-As-You-Go retirement systems based on the Algerian case. *Revija za Socijalnu Politiku*, 29(2), xx-xx.

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](https://doi.org/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](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.org/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 17<sup>th</sup> 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. (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" organized 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](#)]

Chinoune, M. and Flici, F. (2019). [Assessing the quality of national life tables in Algeria using specific surveys](#). Conference paper. 8<sup>th</sup> 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. 8<sup>th</sup> 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

### 2021-2022 (ongoing)

- Spatial inequalities in terms of life expectancy and healthy life expectancy in Algeria. National Research Program on Citizens' Health. (Submitted).
- 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](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](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](https://osf.io/xwz3t)

## ACADEMIC SUPERVISING

- |                |   |
|----------------|---|
| <b>Ongoing</b> | <ul style="list-style-type: none"><li>● “Estimating and Projecting Regional Mortality in Algeria”, PhD thesis (ENSSEA).</li><li>● “The Sustainability of the employers retirement scheme in Algeria”, PhD thesis (ENSSEA).</li><li>● “The future of longevity and Health in Algeria”, PhD thesis (ENSSEA).</li><li>● “How poverty affects longevity and Health in Algeria? ”, PhD thesis (ENSSEA).</li><li>● “Modelling survivor Benefits in the Algerian pension plan”, PhD thesis (ENSSEA).</li></ul> |
| <b>2016-18</b> | <ul style="list-style-type: none"><li>● “Algerian Retirement System Sustainability: a Multi-scenarios Analysis”, Master Thesis. Higher School of Social Security (ESSS). Algeria.</li><li>● “Disease-free life expectancy: Social security based estimates”, ESSS (Algeria).</li><li>● “The limits of parametric reforms of the Algerian retirement system in the face of population ageing”, Master thesis (ESSS).</li></ul>   |
| <b>2015-16</b> | <ul style="list-style-type: none"><li>● “Prospective experience life-tables for the Algerian retired population”, Master thesis in Actuarial Science for Social Security (ESSS).</li><li>● “Actuarial life tables for social security in Algeria”, Master thesis (ESSS), Algeria.</li></ul>   |
| <b>2012-14</b> | <ul style="list-style-type: none"><li>● “Construction of disability tables for the building sector in Algeria ”. Master thesis in Finance and Actuarial sciences (ENSSEA).</li><li>● “The use of life tables for insurance for Bank credit Insurance”, Master thesis in Finance and Actuarial sciences (ENSSEA).</li></ul>  |
| <b>2011-12</b> | <ul style="list-style-type: none"><li>● “Continuous time approach for life annuities reserving”. Master thesis in Finance and Actuarial sciences (ENSSEA).</li></ul>  |

## TRAINING & RESEARCH VISITS

- 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

- 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.
- Member of the Scientific Advisory Board of “[One World Actuarial Research Seminar](#)”.
- Former board member at CREAD from 2014 to 2018.
- Interim Managing Director of the Department of “Human Development and Social Economics” of CREAD from February to April 2020.
- Creating and leading “[The Actuarial Demography Team](#)” at CREAD in January 2018.
- Initiating and organising a periodic workshop on actuarial sciences (Life) in Algeria starting from January 2016: “Journée d’Actuariat-Vie Algérie (JAVA)”.
- Collaborating a training on “[Data Science for Life and Health Insurance](#)” in Algiers with “[Actuaries Without Borders AWB](#)” in December 2018.

**MEDIAS**

- [“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, Litterature, Domino.

**ACADEMIC PLATFORMS & SOCIAL MEDIAS**

<a href="#">IDEAS</a>	<a href="#">EconPapers</a>	<a href="#">Repec</a>
<a href="#">ResearchGate</a>	<a href="#">Google Scholar</a>	<a href="#">LinkedIn</a>
<a href="#">Facebook</a>	<a href="#">Twitter</a>	<a href="#">YouTube Channel</a>

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