

Hatem Jemmali, Associate Professor in Quantitative Methods

CONTACT INFORMATION Laboratory for Research in Quantitative Development Economics (LAREQUAD) & Higher Institute of Accountancy and Business Administration (ISCAE), Department of Economics and Quantitative methods. Manouba University, 2010, Manouba Tunisia. *Mobile:* +216-97-753-648
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CITIZENSHIP Tunisian

AFFILIATIONS

Associate Professor at the Higher Institute of Accountancy and Business Administration (**ISCAE, Tunisia**), University of Manouba.

Research Fellow at the Laboratory for Research in Quantitative Development Economics (**LAREQUAD, Tunisia**).

Active member at the Arab Council for the Social Sciences (**ACSS, Lebanon**).

Regular member at the International Statistical Institute (**ISI, Netherlands**).

Member at the African Growth and Development Policy Modeling Consortium (**AGRODEP, IFPRI-Dakar**).

RESEARCH INTERESTS

I'm primarily interested in environmental and natural resource issues, with a major focus on water resources management and sustainable development. I've long been involved in the improvement and the development of monitoring metrics for sustainable water management. My current research interests include economic development, labor economics, water resources economics and climate changes. I'm particularly interested in exploring the causes and consequences of poverty and inequality of human development. My special focus is how to go beyond the summary measures of inequality towards analyzing the distribution of human development achievements across the population. Most of my work focuses on developing countries, with a particular emphasis on MENA region.

EDUCATION

HDR diploma (habilitation to supervise research) in Economic Sciences (Quantitative methods). College of Economic Sciences and Management of Tunis, University Tunis El-Manar, June 2017.

PhD. in Economic Sciences (Quantitative Methods), July 2012.

- Thesis Title: *Multidimensional Analysis of Water Poverty: Theoretical Framework and Applications.*

- Thesis Advisor: Pr. Mohamed Salah Matoussi
- Area of Study: Water Scarcity Indicators, Water Poverty, Water Resources Management

Master in Mathematical Economics and Econometrics. College of Economic Sciences and Management of Tunis, University Tunis El-Manar, February 2005.

- Thesis Title: *Natural Resources Scarcity: Measures and Impacts on Economic Growth*
- Adviser: Pr. Mohamed Salah Matoussi
- Area of Study: Natural Resources Scarcity, Economic Growth

Licence in High Commercial Studies (Finance). Institute of High Commercial Studies of Carthage (IHEC), University of Carthage, June 2002.

Bac/High School Diploma in Mathematics. Secondary High School 20 March 1956, Sfax, June 1998

ACADEMIC

APPOINTMENTS	Associate Professor	Recruitment: Aug. 2018
	2018-Present Higher Institute of Accountancy and Business Administration, University of Manouba.	
	Assistant Professor	Recruitment: Sept. 2013, Rank: First
	2016-Present Higher Institute of Accountancy and Business Administration, University of Manouba.	
	2013-2016 College of Economic Sciences and Management of Sousse, University of Sousse.	
	Assistant	Recruitment: Sept. 2012, Rank: Third
	2012-2013 College of Economic Sciences and Management of Sousse, University of Sousse.	
	Non-permanent Assistant	Recruitment: Sept. 2005
	2009-2011 Higher Institute of Computer Sciences, University of Tunis El-Manar.	
	2005-2008 College of Law and Economic and Political Sciences.	
	Temporary Assistant	Recruitment: Jan. 2005
	2011-2015 Private Higher School of Engineering and Technology (ESPRIT).	
	2006-2014 Central University of Tunis.	
	2008-2009 College of Economic Sciences and Management of Nabeul.	
	2005-2009 International University of Tunis.	

COURSES

TAUGHT

Licence

- Mathematics: Analysis, Algebra and Geometry
- Descriptive Statistics and Probabilities
- Applied Statistics and Inferential Statistics
- Operational Research
- Theory of Graphs

- Natural Resources Economics
- Theory of Decision
- Econometrics
- Introduction to Spatial Econometrics

Master

- Stochastic modeling
- Spatial Econometrics
- Analysis of Productivity
- Time Series Econometrics
- Introduction to STATA
- Dynamic Optimization

REFEREED JOURNAL PUBLICATIONS

- [1] “Rural-Urban Migration and Income Disparity in Tunisia: A Decomposition Analysis” (with Mohamed Amara and Mohamed Ayadi), *Papers in Regional Science*, (2018) (In Press).
- [2] “Inequality of opportunities among Tunisian children over time and space” (Single-authored), *Child Indicators Research*, 12(1): 213-234, (2018).
- [3] “Water Poverty in Africa: A review and synthesis of issues, potentials, and policy implications” (Single-authored), *Social Indicators Research*, 136(1): 335-358, (2018).
- [4] “On measuring and decomposing inequality of opportunity among children: Evidence from Tunisia” (with Mohamed Amara), *Applied Research in Quality of Life*, 13(1): 137-155, (2018).
- [5] “Deciphering the relationship between internal Migration and regional disparities in Tunisia” (with Mohamed Amara), *Social Indicators Research*, 135(1): 313-331, (2018).
- [6] “Household and contextual indicators of poverty in Tunisia: A multilevel analysis” (with Mohamed Amara), *Social Indicators Research*, 137(1): 113-138, (2018).
- [7] “Do Tunisian Young Children Have Equal Chances? A Special Focus on Opportunities in Healthcare and Nutrition” (with Mohamed Amara), *Child Indicators Research*, 11(2): 383-403, (2018).
- [8] “Renewable energy consumption, International trade, oil price and Economic growth inter-linkages: the case of Tunisia ” (with Riadh Brini and Mohamed Amara), *Renewable & Sustainable Energy Reviews*, 76: 620-627, (2017).
- [9] “Mapping water poverty in Africa using the improved Water Multidimensional Poverty Index” (Single-authored), *International Journal of Water Resources Development*, 33(4): 649-666, (2017).
- [10] “Public spending efficiency, governance, political and economic policies: An analysis of inter-linkages in selected MENA countries” (with Riadh

Brini), *International Journal of Economics and Financial Management*, 1(1), (2016).

- [11] “The Impact of the political instability on Conventional Banks’ stability: Evidence in Tunisia” (with Riadh Brini), *International Journal of Banking and Finance Research*, 2(3), (2016).
- [12] “Public debt and economic growth in Tunisia: A re-examination” (with Riadh Brini and Arafet Farrouk), *Advances in Economic and Business*, 4(11): 584-590, (2016).
- [13] “Multidimensional analysis of the water-poverty nexus using a modified Water Poverty Index: a case study from Jordan” (with Lina Abu-Ghunmi), *Water Policy* 18(4): 826-843, (2016).
- [14] “Assessing inequality of human opportunities: a new approach for public policy in Tunisia” (with Mohamed Amara), *Applied Research in Quality of Life*, 10(2): 343-361, (2015).
- [15] “Multidimensional analysis of water poverty in MENA region: An empirical comparison with physical indicators” (with Caroline A Sullivan), *Social Indicators Research*, 115(1): 253-277, (2014).
- [16] “Market Informational Efficiency: the contribution of Shannon entropy” (with Imen Mahmoud, Saber Sebai and Kamel Naoui), *European Journal of Economics, Finance and Administrative Sciences*, 66: 6-17, (2014).
- [17] “A multidimensional analysis of water poverty at local scale: Application of Improved Water Poverty Index for Tunisia” (with Mohamed Salah Matoussi), *Water Policy*, 15(1): 98-115, (2013).
- [18] “Study of speculative bubbles: the contribution of approximate entropy” (with Imen Mahmoud and Kamel Naoui), *International Journal of Economics and Financial Issues*, 3(3): 683-693, (2013).
- [19] “Mesures de la pauvreté en eau: Analyses comparative et Développement de l’Indice de Pauvreté en Eau” (Single-authored), *Vertigo-la revue électronique en sciences de l’environnement*, 13(2), (2013).

PAPERS UNDER
REVIEW

- [20] “What drive Regional Economic Inequalities in Tunisia? Evidence from Unconditional Quantile Decomposition Analysis” (Single-authored), *Journal of Economic Inequality*, (2018). A previous version of the paper was published in *ERF Working Papers Series* (WP No.1159).
- [21] “Toward Understanding International Water Conflicts in MENA Region: A Comparative Analysis using Water Poverty Index” (with Caroline A. Sullivan), *Routledge Handbook on Political Economy of the Middle East and North Africa*, (2018). A previous version of the paper was published in *ERF Working Papers Series* (WP No.859).

SUBMITTED
JOURNAL
PUBLICATIONS

- [1] “Analyse multidimensionnelle et spatiale de la pauvreté en eau à l’échelle internationale” (Single-authored), *Journal of Water Sciences*, (2016).
- [2] “Macroeconomic impacts of oil price shocks on inflation and real exchange rate: Evidence from selected MENA countries” (with Riadh Brini and Arafet Farrouk), *Panoeconomicus*, (2016).

PAPERS IN
PREPARATION

- [3] “Dynamic Impacts of Climate Changes and Agricultural Sustainability on Food-Water Poverty in a Panel of Selected MENA Countries” (with Rabeh Morrar and Safouane Ben Aissa), (2018).
- [4] “Democracy and Inequality: an Empirical Analysis with some evidence on MENA economies” (with Riadh Brini), (2016).

CONFERENCE
PUBLICATIONS

- [1] “Water Poverty in Africa: A review and synthesis of issues, potentials, and policy implications” (Single-authored), *XXXIII ATM-ULB Days*, Brussels (2017).
- [2] “What drive Regional Economic Inequalities in Tunisia? Evidence from Unconditional Quantile Decomposition Analysis” (Single-authored), *23rd Annual Conference of the Economic Research Forum (ERF)*, Amman and *61st ISI World Statistics Congress (WSC)*, Marrakech (2017).
- [3] “Macroeconomic impacts of oil price shocks on inflation and real exchange rate: Evidence from selected MENA countries” (with Riadh Brini and Arafet Ferrouk), *15th International Conference of The Middle East Economic Association (MEEA)*, Doha (2016).
- [4] “Inequality of opportunities among Tunisian children over time and space” (Single-authored), *22nd Annual Conference of the Economic Research Forum (ERF)*, Cairo (2016).
- [5] “Deciphering the relationship between internal Migration and regional disparities in Tunisia” (with Mohamed Amara), *22nd Annual Conference of the Economic Research Forum (ERF)*, Cairo (2016).
- [6] “On measuring and decomposing inequality of opportunity among children: Evidence from Tunisia” (with Mohamed Amara), *32th Applied Microeconomics Days*, Montpellier (2015).
- [7] “Household and contextual indicators of poverty in Tunisia: A multilevel analysis” (with Mohamed Amara), *21st Annual Conference of the Economic Research Forum (ERF)*, Tunis (2015).
- [8] “Public debt and economic growth in Tunisia: A re-examination” (with Riadh Brini and Arafet Ferrouk), *14th International Conference of The Middle East Economic Association (MEEA)*, Tunis (2015).
- [9] “Efficiency in public spending, governance, political and economic policies: An analysis of interlinkages in selected MENA countries” (with Riadh

Brini), 21th Annual Conference of the Economic Research Forum (ERF), Tunis (2015).

- [10] “Assessing inequality of human opportunities: a new approach for public policy in Tunisia” (with Mohamed Amara), 20th Annual Conference of the Economic Research Forum (ERF), Egypt (2014).
- [11] “Toward Understanding International Water Conflicts in MENA Region: A Comparative Analysis using Water Poverty Index” (with Caroline A Sullivan), 20th Annual Conference of the Economic Research Forum (ERF), Egypt (2014).
- [12] “A multidimensional analysis of water poverty at local scale: Application of Improved Water Poverty Index for Tunisia” (with Mohamed Salah Matoussi), 18th Annual Conference of the Economic Research Forum (ERF), Egypt (2012).
- [13] “Cartographie et Analyse spatiale multivariée de la Pauvreté en eau l’échelle internationale” (with Mohamed Amara), 3^{ème} Conférence Euro-Africaine en Finance et Economie (CEAFE), Paris (2010).
- [14] “Analyse multidimensionnelle de la pauvreté en eau : Cas de la TUNISIE”. 4^{ème} Colloque international de Finance et Stratégies de Développement, ISG, Sousse (2009).

WORKSHOP AND
TRAINING

- “Workshop: Economic Liberalism, Democracy and Transitional Justice”, *Transitional Justice Institute, (Ulster University)*, Belfast, January 8-10, 2018.
- “Symposium: Les Nouvelles Tendances et Methodes de Sondage Politique”, (*European University of Tunis*), Tunis, 20 December 2017.
- “NES-HCEO Summer School on Socioeconomic Inequality”, *New Economic School and HCEO (University of Chicago)*. Moscow, August 28 to September 2, 2017.
- “Workshop on The Political Economy of Contemporary Arab Societies” , *Economic Research Forum (ERF)*. Beirut, August 24-25, 2016.
- “Workshop on Rural Poverty, Rural-Urban Migration and Rural Development in the ERF Region”, *Economic Research Forum (ERF)*. Cairo, July 28th, 2016.
- “Second ACSS Research Forum”, *Arab Council for the Social Sciences (ACSS)*. Algiers, June 2-4, 2016.
- “Training Workshop on Applied Micro-econometrics and Public Policy Evaluation”, *Economic Research Forum (ERF)*. Cairo, January 4-6, 2016.
- “Training Workshop on Proposal Writing and Research Methods”, *Arab Council for the Social Sciences (ACSS)*. Beirut, October 6-7, 2015.

- “Second ACSS Conference: Questioning Social Inequality and Difference in the Arab Region”, *Arab Council for the Social Sciences (ACSS)*. Beirut, March 13-15, 2015.
- “Training Workshop on Writing Winning Research Proposals and Papers”, *Economic Research Forum (ERF)*. Tunis, September 28-29, 2014.

AWARDS AND HONORS

- Best paper award: “Household and contextual indicators of poverty in Tunisia: A multilevel analysis” (with Mohamed Amara) designated as best paper of Microeconomic and Sectoral studies at the 21th *Annual Conference of the Economic Research Forum (ERF)*, Tunis (2015).

RESEARCH GRANT

- [1] “Nudges for Economics of Water Tariffs” (Senior researcher), with funding of European Union (2019-2021).
- [2] “Inequality of Opportunity for Higher Education among Youth in Tunisia: A Pilot Study” (Principal Investigator), with funding of the Arab Council for the Social Sciences (2018-2019).
- [3] “Baseline Study of Higher Education and Research in Palestine” (Senior Researcher), With funding from, and in collaboration with, the Swedish International Development Cooperation Agency (Sida), the Arab Council for the Social Sciences (ACSS) (2018-2019).
- [4] “Does it Still Pay to Go To College in Egypt? Decomposition Analysis of Wage Differentials in Public and Private Sector for College and Non-College Graduates” (Principal Investigator) (with Fatma El-Hamidi), funded by the Economic Research Forum (2017-2018).
- [5] “Dynamics and Decomposition of Inequality of Outcomes and Inequality of Opportunities: A special focus on Tunisia” (Principal Investigator) (with Mohamed Amara), funded by the Economic Research Forum (2016-2017).
- [6] “Rural-Urban Migration and Income Disparity in Tunisia: A Comparative Analysis between Rural Migrants and Residents” (Principal Investigator) (with Mohamed Amara and Mohamed Ayadi), funded by the Economic Research Forum (2016-2017).
- [7] “On understanding the Internal Migration and Inequality nexus in Tunisia: A review of information on current trends and patterns, and their policy implications” (Principal Investigator) (with Mohamed Amara), funded by the Arab Council for the Social Sciences (2015-2016).

REFEREEING SERVICE

- Referee for peer-review journal:
- Journal of Behavioral and Experimental Finance
 - World Development Journal

- Water Resources Management Journal
- International Journal of Emerging Markets
- Social Indicators Research Journal
- The Journal of North African Studies
- African Development Review
- Journal of Agricultural Science and Technology
- Journal of Inspiration Economy
- Economics E-Journal
- Environment, Development and Sustainability

SOFTWARE
SKILLS

Econometric and Statistical software:

- STATA, SPSS, STATISTICA, S-Plus
- MATLAB, R
- ARCGIS, SpaceSTAT

Desktop Editing and Productivity Applications:

- \TeX (\LaTeX , \BibTeX , Beamer)
- Microsoft Office, Google Docs

Operating Systems:

- Microsoft Windows

REFERENCES
AVAILABLE TO
CONTACT

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Economics and Policy,
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