Dhafer Malouche, Ph.D., Professor of Statistics

Qatar University

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https://dhafermalouche.net/

https://github.com/malouche, https://www.covidradar24.org

G Google scholar page

Employment History

04/2021 - · · · ·

10/2020 - - · · · ·

05/2020 - 05/2021

05/2020 - 01/2021

2003 - · · · ·

August 2022 – · · · · · Qatar University, Professor of Statistics, Department of Mathematics, Statistics and Physics, College of Arts and Sciences.

July 2021 – July 2022 **The American University in Cairo**, Professor of Statistics, Department of Mathematics and Actuarial Science, School of Sciences and Engineering.

Teaching: Statistical Inference, Data Science with Python

Pan-African Scientific Research Council, Fellow member.

Covidradar24.org and **Rosettahub.com**, Data analyst master contributor in a real time COVID-19 tracking data science platform.

World Health Organization, Tunisia Senior data analyst consultant, Measuring the impact of the COVID 19 pandemic on psychiatric needs of the general population in Tunisia, data collected from a hot line accessible throughout the country, including those without access to Internet.

WARC, Africa, Sierra Leone Data analyst consultant, Setting up an online daily data monitoring platform for a survey implemented in Sierra Lean.

University of Carthage, Ecole Supérieure de la Statistique et de l'Analyse de l'Information, Tunis, Tunisia

• **Positions:** Professor (from 2018), Associate Professor (2011-2018), Assistant Professor (2003-2011).

• Teaching: Data Analysis: Principal Component Analysis, Correspondence Analysis, and Multiple Correspondence Analysis, Theory and Practice with R, Mathematical Statistics: Statistical Inference, Hypothesis Testing, Regression Analysis, Theory and Practice with R, Data Mining and Practice with R, Bayesian Statistics with OpenBugs/Winbugs/RStan/Jags, Time Series: ARMA and SARIMA Processes, Theory and Practice with R/Python, Big Data: Large Data with R/Python, SQL, Spark, H2O, Advanced R/Python: Data Management, Data Visualization, Dashboards, Shiny Apps, Heroku Apps, Bokeh.

· Research:

- Supervising 5 Ph.D.: Detection and classification of swallowing sound, Sensory Analysis, Genetics, Zoonotic cutaneous leishmaniasis incidence, Cardiovascular risk factor.
- Papers and collaborations: I had published and coauthored more than 40 scholar papers.
- Supervising Master and Engineering Thesis on several topics related to applied statistics and data science.
- Administration: Director of the Department of Statistics (2004-2007)

Employment History (continued)

2014 - 2019

- Yale University, Whitney and Betty MacMillan Center for International and Area Studies and the Department of Statistics and Data Science, New Haven, USA.
 - **Positions:** Visiting Associate Professor (2014), Consulting on several projects with Yale Scholars (2015-2018), Associate Research Scholar (2019).
 - **Missions:** Democratic Transition in Tunisia, Governance and Local Development: Implementing two face-o-face Surveys in Tunisia, G-econ team on building local GDP data, Teaching Time Series with R/Python Course.

2016 - 2017

- University of Michigan, Center for Political Studies of the Institute for Social Research, Ann Arbor, USA.
 - Position: Visiting Fulbright Scholar.
 - Role: Research: Working on Data Quality, Survey Methodology, Interviewer Effect, Teaching: 4 Lectures on Applied graphical Models, 1 Lecture on Data visualization with R, 1 Lecture on Sensory Analysis.

2011 (May to July)

- **Stanford University**, Department of Statistics, Palo alto, USA.
 - Position: Visiting Fulbright Scholar.
 - Role: Research on Graphical Models, Faithfulness assumption, and Covariance graphs.

2002 - 2003

- **York University**, Department of Statistics, Toronto, Canada.
 - Position: Visiting Assistant Professor,
 - **Teaching:** Applied Regression Models with SAS, Introduction to the theory of probability, Introduction to Statistics with Minitab,
 - Research: Monte Carlo Methods and Bayesian Estimation of the Graphical Models.

1998 - 2002

- University of Sousse, Institut Préparatoire aux Ecoles d'Ingénieurs, Sousse, Tunis.
 - Teaching: Analysis, Calculus, Algebra
 - Research: Natural Exponential Families, Pick functions, Markov Chains
 - Administration: Director of the Department of Mathematics

Education

Sept 2009

Habilitation (*Tenure*), Statistics, Université de Tunis El Manar Ecole National d'Ingénieurs de Tunis,

Thesis title: Problèmes autour de la probabilité et de la statistique: Méthodes et Applications.

Dissertation: https://malouche.github.io/myCV/reports.html

October 1997

Doctorate, (*Ph.D.*), Statistics, Paul Sabatier University, Toulouse, France.

Thesis title: Classification des familles exponentielles associées à des fonctions Pick.

Dissertation: https://malouche.github.io/myCV/reports.html

1993–1994 Master's Degree (D.E.A), Paul Sabatier University, Applied Mathematics, Statistics

1989 – 1993 **Bachelor (Maîtrise)**, Ecole Normale Supérieure de Bizerte, Tunisia.

Skills

Strong reading, writing and speaking competencies for English, French, and Arabic. Languages

Coding Python, R, TABLEAU, SPARK, H2O, Shiny, LATEX, ...

Misc. Quantitative research, Project management, Qualitative research, Data Mining, Machine Learning, Big Data,

Academic research, Teaching, training, consultation, LTEX typesetting and publishing.

Papers

Research interests: Graphical models, Public health, COVID-19, Research and development, Well being, Survey methodology, Data quality, Consumer preferences, Genetics.

Research papers

- Ben-Hassine, K., Taamalli, A., Rezig, L., Yangui, I., Benincasa, C., Malouche, D., ... Mnif, W. (2022). Effect of processing technology on chemical, sensory, and consumers' hedonic rating of seven olive oil varieties. Food Science & Nutrition. ♂ doi:https://doi.org/10.1002/fsn3.2717. eprint: https://onlinelibrary.wiley.com/doi/pdf/10.1002/fsn3.2717
- Ben-Hassine, K., Yangui, I., Mnif, W., Taamalli, A., Benincasa, C., Kamoun, N., & Malouche, D. (2022). Chemometric analysis and physicochemical composition of foreign and tunisian olive oil: Consumer preferences. Journal of Food Quality, vol. 2022, Article ID 3981028, 10 pages. Retrieved from & https://doi.org/10.1155/2022/3981028
- Malouche, D. (2021c). Implication of faithfulness assumption. Sankhyā B: The Indian Journal of Statistics. Retrieved from ♦ https://doi.org/10.1007/s13571-021-00271-0
- Saidi, O., Malouche, D., Saksena, P., Arfaoui, L., Talmoudi, K., Hchaichi, A., ... Ben Alaya, N. (2020). Impact of contact tracing, respect of isolation and lockdown in reducing the number of cases infected with covid-19: Case study: Tunisia's response from march 22 to 04 may 2020. International Journal of Infectious Diseases. Retrieved from ♦ https://doi.org/10.1016/j.ijid.2021.02.010
- Kongbonga, G. Y. M., Hassine, K. B., Ghalila, H., Malouche, D. et al. (2019). Front-face fluorescence using uv-led coupled to usb spectrometer to discriminate between virgin olive oil from two cultivars. Food and Nutrition Sciences, 10(02), 119. Retrieved from 6 http://www.scirp.org/journal/PaperInformation.aspx?PaperID=90405&#abstract
- Mekki, I., Malouche, D., Smeti, S., Hajji, H., Mahouachi, M., M, E., & Atti, N. (2019). Study of the breeding systems of sheeps in the montagnous area of north-western tunisia. Livestock Research for Rural Development, 31(108). Retrieved
- Saidi, O., Hajjem, S., Zoghlami, N., Aounallah-Skhiri, H., Mansour, N. B., Hsairi, M., ... O'Flaherty, M. et al. (2019). Premature mortality attributable to smoking among tunisian men in 2009. Tobacco induced diseases, 17. Retrieved from ₱ https://dx.doi.org/10.18332%2Ftid%2F112666
- Saidi, O., O'Flaherty, M., Zoghlami, N., Malouche, D., Capewell, S., Critchley, J. A., ... Guzman Castillo, M. (2019). Comparing strategies to prevent stroke and ischemic heart disease in the tunisian population: Markov modeling approach using a comprehensive sensitivity analysis algorithm. Computational and mathematical methods in medicine, 2010. Retrieved from 6 https://doi.org/10.1155/2019/2123079
- Saidi, O., Zoghlami, N., Bennett, K. E., Mosquera, P. A., Malouche, D., Capewell, S., ... O'Flaherty, M. (2019). Explaining income-related inequalities in cardiovascular risk factors in tunisian adults during the last decade: Comparison of sensitivity analysis of logistic regression and wagstaff decomposition analysis. International journal for equity in health, 18(1), 177. Retrieved from ₱ https://equityhealthj.biomedcentral.com/articles/10.1186/s12939-019-1047-6
- Salem, S., Malouche, D., & Romdhane, H. B. (2019). Tunisian population quality of life: A general analysis using sf-36. Eastern Mediterranean Health Journal, 25(9). Retrieved from ₱ https://apps.who.int/iris/bitstream/handle/10665/333459/10203397192509-eng.pdf#page=23
- Khlaifi, H., Istrate, D., Demongeot, J., & Malouche, D. (2018). Swallowing sound recognition at home using gmm. IRBM, 39(6), 407-412. JETSAN. Odoi:https://doi.org/10.1016/j.irbm.2018.10.009
- Benstead, L. J., Kao, K., Landry, P. F., Lust, E. M., & Malouche, D. (2017). Using tablet computers to implement surveys in challenging environments. Survey Practice, 10(2), 1–9. Retrieved from & https://doi.org/10.29115/SP-2017-0009

- Rebhi, I., & Malouche, D. (2017a). An approach for external preference mapping improvement by denoising consumer rating data. *International Journal of Advanced Computer science and Applications*, 8(12), 500–508. Retrieved from https://doi.org/10.14569/IJACSA.2017.081266
- Rebhi, I., & Malouche, D. (2017b). Decision making about products development through consumer preferences modeling based on descriptive characteristics of products. *IEEE/ACS 14th International Conference on Computer Systems and Applications (AICCSA)*, 423–430. Retrieved from 6 https://doi.org/10.1109/AICCSA.2017.202
- Talmoudi, K., Bellali, H., Ben-Alaya, N., Saez, M., Malouche, D., & Chahed, M. K. (2017a). Comparative performance analysis for generalized additive and generalized linear modeling in epidemiology. *International Journal of Advanced Computer Science and Applications*, 8(12). Odoi:10.14569/IJACSA.2017.081255
- Talmoudi, K., Bellali, H., Ben-Alaya, N., Saez, M., Malouche, D., & Chahed, M. K. (2017b). Modeling zoonotic cutaneous leishmaniasis incidence in central tunisia from 2009-2015: Forecasting models using climate variables as predictors. *PLoS neglected tropical diseases*, 11(8), e0005844. Retrieved from 6 https://doi.org/10.1371/journal.pntd.0005844
- Triki, H. Z., Laabir, M., Lafabrie, C., Malouche, D., Bancon-Montigny, C., Gonzalez, C., ... Daly-Yahia, O. K. (2017). Do the levels of industrial pollutants influence the distribution and abundance of dinoflagellate cysts in the recently-deposited sediment of a mediterranean coastal ecosystem? *Science of the Total Environment*, 595, 380–392. Retrieved from § https://doi.org/10.1016/j.scitotenv.2017.03.183
- Aouinti, S., Giudicelli, V., Duroux, P., Malouche, D., Kossida, S., & Lefranc, M.-P. (2016). Imgt/statclonotype for pairwise evaluation and visualization of ngs ig and tr imgt clonotype (aa) diversity or expression from imgt/highv-quest.

 Frontiers in immunology, 7, 339. Retrieved from 6 https://doi.org/10.3389/fimmu.2016.00339
- Aouinti, S., Malouche, D., Giudicelli, V., Kossida, S., & Lefranc, M.-P. (2016). Correction: Imgt/highv-quest statistical significance of imgt clonotype (aa) diversity per gene for standardized comparisons of next generation sequencing immunoprofiles of immunoglobulins and t cell receptors. *PloS one*, 11(1), e0146702. Retrieved from https://doi.org/10.1371/journal.pone.0146702
- Kerfai, N., Bejar Ghadhab, B., & Malouche, D. (2016). Performance measurement and quality costing in tunisian manufacturing companies. *The TQM Journal*, 28(4), 588–596. Retrieved from https://www.emerald.com/insight/content/doi/10.1108/TQM-10-2013-0119/full/html
- Saidi, O., Malouche, D., O'Flaherty, M., Mansour, N. B., Skhiri, H., Romdhane, H. B., & Bezdah, L. (2016). Assessment of cardiovascular risk in tunisia: Applying the framingham risk score to national survey data. *BMJ open*, 6(11), e009195.

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 6 doi:10.1109/IVCNZ.2015.7761572
- Aouinti, S., Malouche, D., Giudicelli, V., Kossida, S., & Lefranc, M.-P. (2015). Imgt/highv-quest statistical significance of imgt clonotype (aa) diversity per gene for standardized comparisons of next generation sequencing immunoprofiles of immunoglobulins and t cell receptors. *PLoS One*, 10(11), e0142353. Retrieved from https://pubmed.ncbi.nlm.nih.gov/26540440/
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- Saidi, O., O'Flaherty, M., Mansour, N. B., Aissi, W., Lassoued, O., Capewell, S., ... Romdhane, H. B. (2015). Forecasting tunisian type 2 diabetes prevalence to 2027: Validation of a simple model. *BMC public health*, 15(1), 104. Retrieved from https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-015-1416-z
- Ghribi, K., Sevestre, S., Guessoum, Z., Gil-Quijano, J., Malouche, D., & Youssef, A. (2014). A survey on multi-agent management approaches in the context of intelligent energy systems. 2014 International Conference on Electrical Sciences and Technologies in Maghreb (CISTEM), 1–8. Odoi:10.1109/CISTEM.2014.7077030
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- Karaoud, M., Bouafif, N., Malouche, D., Kouni, C., & Achour, N. (2014). La mortalité parmi les enfants âgés de moins de 15 ans en tunisie peut être liée à la température. Revue d'Épidémiologie et de Santé Publique, 62, S122. Retrieved from 6 https://www.em-consulte.com/article/911510/article/la-mortalite-parmi-les-enfants-ages-de-moins-de-15
- Karaoud, M., Malouche, D. et al. (2014). Les effets de la température sur la mortalité chez les personnes âgées en tunisie. Revue d'Épidémiologie et de Santé Publique, 62, S219–S220. Retrieved from https://www.em-consulte.com/article/915656/les-effets-de-la-temperature-sur-la-mortalite-chez
- Karaoud, M., Malouche, D., & Alaya, N. B. (2014). Mortalité et température journalière en tunisie: Une étude multi-région. *Revue d'Épidémiologie et de Santé Publique*, 62, S218. Retrieved from 6 https://www.em-consulte.com/article/915651/article/mortalite-et-temperature-journaliere-en-tunisie%C2%A0-u
- Karaoud, M., Malouche, D., & Bouafif, N. (2014). Méthodologie de l'analyse de la relation température-mortalité en tunisie. *Revue d'Épidémiologie et de Santé Publique*, 62, S141–S142. Retrieved from **6** https://www.em-consulte.com/article/911552/article/methodologie-de-l-analyse-de-la-relation-temperatu
- Triki, H. Z., Daly-Yahia, O. K., Malouche, D., Komiha, Y., Deidun, A., Brahim, M. et al. (2014). Distribution of resting cysts of the potentially toxic dinoflagellate alexandrium pseudogonyaulax in recently-deposited sediment within bizerte lagoon (mediterranean coast, tunisia). *Marine pollution bulletin*, 84(1-2), 172–181. Retrieved from <code>% https://doi.org/10.1016/j.marpolbul.2014.05.014</code>
- Aouinti, S., Mallek, H., Malouche, D., Saidi, O., Lassouedi, O., Hentati, F., & Romdhane, H. B. (2013). Graphical interaction models to extract predictive risk factors of the cost of managing stroke in tunisia. 2013 International Conference on Computer Medical Applications (ICCMA), 1–6. Retrieved from https://ieeexplore.ieee.org/document/6506162
- Ben-Hassine, K., Taamalli, A., Ferchichi, S., Mlaouah, A., Benincasa, C., Romano, E., ... Hammami, M. (2013). Physicochemical and sensory characteristics of virgin olive oils in relation to cultivar, extraction system and storage conditions. *Food research international*, 54(2), 1915–1925. Retrieved from https://scholar.cnki.net/Detail/doi/GARJ2013/SJES14010600411056
- Fehri, R., Rifi, H., Alboueiri, A., Malouche, D., Ayadi, M., Rais, H., & Mezlini, A. (2013). Carcinoma of unknown primary: Retrospective study of 437 patients treated at salah azaiez institute. *La Tunisie medicale*, 91(3), 205–208. Retrieved from https://www.latunisiemedicale.com/article-medicale-tunisie_2165_en
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- Hassine, K. B., Taamalli, A., Malouche, D., Kammoun, N., Lazzez, A., Benincasa, C., ... Bouaziz, M. (2012). Influence of variety, geographical site and extraction system on virgin olive oil (voo) linoleic acid composition and its impact on consumer preference. *Linoleic Acids*, 97. Retrieved from % https:

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- Malouche, D., & Rajaratnam, B. (2011). Gaussian covariance faithful markov trees. *Journal of Probability and Statistics*, 2011. Retrieved from 6 https://doi.org/10.1155/2011/152942
- Ranjanomennahary, P., Ghalila, S. S., Malouche, D., Marchadier, A., Rachidi, M., Benhamou, C., & Chappard, C. (2011). Comparison of radiograph-based texture analysis and bone mineral density with three-dimensional microarchitecture of trabecular bone. *Medical Physics*, 38(1), 420–428. Odo::10.1118/1.3528125. eprint: https://aapm.onlinelibrary.wiley.com/doi/pdf/10.1118/1.3528125
- 40 Arfa, I., Nouira, S., Abid, A., Alaya, N. B.-B., Zorgati, M., Malouche, D., ... Romdhane, H. B. et al. (2010). Absence d'association entre les polymorphismes du système rénine angiotensine (sra) et l'hypertension artérielle chez les diabétiques de type 2 tunisiens. *la tunisie médicale*, 88(01), 37–40.
- 41 Arfa, I., Nouira, S., Abid, A., Bouafif-Ben, N. A., Zorgati, M. M., Malouche, D., ... Ben, H. R. et al. (2010). Lack of association between renin-angiotensin system (ras) polymorphisms and hypertension in tunisian type 2 diabetics. *La tunisie Medicale*, 88(1), 38–41.
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- Malouche, D. (2009a). Determining full conditional independence by low-order conditioning. *Bernoulli*, 15(4), 1179–1189. Retrieved from 6 https://projecteuclid.org/journals/bernoulli/volume-15/issue-4/Determining-full-conditional-independence-by-low-order-conditioning/10.3150/09-BEJ193.full
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- Malouche, D., & Sevestre-Ghalila, S. (2008). Estimating high dimensional faithful gaussian graphical models by low-order conditioning, 595–025. Retrieved from http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.246.9608
- 49 Arfa, I., Abid, A., Malouche, D., Alaya, N. B., Azegue, T. R., Mannai, I., ... Blousa-Chabchoub, S. et al. (2007). Familial aggregation and excess maternal transmission of type 2 diabetes in tunisia. *Postgraduate medical journal*, 83(979), 348–351.
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- Lahmandi-Ayed, R., & Malouche, D. (2020). More investment in research and development for better education in the future? Retrieved from ₱ https://dx.doi.org/10.2139/ssrn.3739632
- Malouche, D., & Ben Romdhane, H. (2020). Estimating excess mortality associated with covid-19 pandemic: A 151 cross-countries study. Retrieved from 6 https://dx.doi.org/10.2139/ssrn.3731481
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Others

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 https://www.leaders.com.tn/article/30775-dhafer-malouche-quel-impact-de-la-covid-19-sur-l-esperance-de-vie-en-tunisie
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 https://archive-yaleglobal.yale.edu/content/arab-spring-success-story-tunisians-vote
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