

Dhafer Malouche, Ph.D., Professor of Statistics

Qatar University








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Employment History

- August 2022 –  **Qatar University**, Professor of Statistics, Department of Mathematics, Statistics and Physics, College of Arts and Sciences.
- **Teaching (2022-2023):** Introduction to Statistics, Stochastic Processes, Bayesian Statistics, Multivariate Analysis, Actuarial Statistics.
 - **Teaching (2023-2024):** Introduction to Statistics, Stochastic Processes, Actuarial Statistics, Statistical Computation and Simulation, Critical Thinking (Honors Program).
- 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, Introduction to Statistics, Data Science with Python
- 10/2020 - 12/2022  **Covidradar24.org** and **Rosettahub.com**, Data analyst master contributor in a real time COVID-19 tracking data science platform.
- 05/2020 - 05/2021  **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.
- August 2020 –  Fellow member at the **Pan-African Scientific Research Council**
- 05/2020 - 01/2021  **WARC, Africa, Sierra Leone** Data analyst consultant, Setting up an online daily data monitoring platform for a survey implemented in Sierra Lean.
- 2003 –  **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  **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, Tunisia.
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

Languages	Strong reading, writing and speaking competencies for English, French, and Arabic.
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, \LaTeX typesetting and publishing.

Papers

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

Research papers

- 1 Losada-Echeberría, M., Naranjo, G., Malouche, D., Taamalli, A., Barrajon-Catalán, E., & Micol, V. (2023). Influence of drying temperature and harvesting season on phenolic content and antioxidant and antiproliferative activities of olive (*olea europaea*) leaf extracts. *International Journal of Molecular Sciences*, 24(i). [Q1]. doi:10.3390/ijms24010054
- 2 Malouche, D. (2023). Describing conditional independence statements using undirected graphs. *Axioms*, 12(12). [Q2]. Retrieved from <https://www.mdpi.com/2075-1680/12/12/1109>
- 3 Rebhi, I., & Malouche, D. (2023). Sensmap r package and sensmapgui shiny web application for sensory and consumer data mapping: Variations on external preference mapping and stability assessment. *Journal of Sensory Studies*. [Q3]. doi:http://doi.org/10.1111/joss.12809. eprint: <https://onlinelibrary.wiley.com/doi/10.1111/joss.12809>
- 4 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*. [Q1]. doi:https://doi.org/10.1002/fsn3.2717. eprint: <https://onlinelibrary.wiley.com/doi/pdf/10.1002/fsn3.2717>
- 5 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. [Q2]. Retrieved from <https://doi.org/10.1155/2022/3981028>
- 6 Malouche, D. (2022). Implication of faithfulness assumption. *Sankhyā B : The Indian Journal of Statistics*. [Q4]. Retrieved from <https://doi.org/10.1007/s13571-021-00271-0>
- 7 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*. [Q1]. Retrieved from <https://doi.org/10.1016/j.ijid.2021.02.010>
- 8 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. [Q2]. Retrieved from <http://www.scirp.org/journal/PaperInformation.aspx?PaperID=90405&#abstract>
- 9 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). [Q3]. Retrieved from <http://www.lrrd.org/lrrd31/7/ilyes31108.html>
- 10 Saidi, O., Hajjem, S., Zoghalmi, 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. [Q1]. Retrieved from <https://dx.doi.org/10.18332/2Ftid%2F112666>
- 11 Saidi, O., O'Flaherty, M., Zoghalmi, 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*, 2019. [Q2]. Retrieved from <https://doi.org/10.1155/2019/2123079>
- 12 Saidi, O., Zoghalmi, 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. [Q1]. Retrieved from <https://equityhealth.biomedcentral.com/articles/10.1186/s12939-019-1047-6>

- 13 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). [Q3]. Retrieved from <https://apps.who.int/iris/bitstream/handle/10665/333459/10203397192509-eng.pdf#page=23>
- 14 Khlaifi, H., Istrate, D., Demongeot, J., & Malouche, D. (2018). Swallowing sound recognition at home using gmm. *IRBM*, 39(6), 407–412. [Q4]. doi:<https://doi.org/10.1016/j.irbm.2018.10.009>
- 15 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. [Q1]. Retrieved from <https://doi.org/10.29115/SP-2017-0009>
- 16 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. [Q3]. Retrieved from <https://doi.org/10.14569/IJACSA.2017.081266>
- 17 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 <https://doi.org/10.1109/AICCSA.2017.202>
- 18 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). [Q3]. doi:10.14569/IJACSA.2017.081255
- 19 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. [Q1]. Retrieved from <https://doi.org/10.1371/journal.pntd.0005844>
- 20 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. [Q1]. Retrieved from <https://doi.org/10.1016/j.scitotenv.2017.03.183>
- 21 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. [Q1]. Retrieved from <https://doi.org/10.3389/fimmu.2016.00339>
- 22 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>
- 23 Kerfai, N., Bejar Ghadhab, B., & Malouche, D. (2016). Performance measurement and quality costing in tunisian manufacturing companies. *The TQM Journal*, 28(4), 588–596. [Q1]. Retrieved from <https://www.emerald.com/insight/content/doi/10.1108/TQM-10-2013-0119/full/html>
- 24 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. [Q1]. Retrieved from <https://doi.org/10.1136/bmjopen-2015-009195>
- 25 Selmi, G., Azouz, Z. B., & Malouche, D. (2015). The volume radius function: A new descriptor for the segmentation of volumetric medical images. *2015 International Conference on Image and Vision Computing New Zealand (IVCNZ)*, 1–6. doi:10.1109/IVCNZ.2015.7761572
- 26 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. [Q1]. Retrieved from <https://pubmed.ncbi.nlm.nih.gov/26540440/>
- 27 Hassine, K. B., Taamalli, A., Slama, M. B., Khouloud, T., Kiristakis, A., Benincasa, C., ... Bornaz, S. et al. (2015). Characterization and preference mapping of autochthonous and introduced olive oil cultivars in tunisia. *European Journal of Lipid Science and Technology*, 117(1), 112–121. [Q2]. Retrieved from <https://doi.org/10.1002/ejlt.201400049>
- 28 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. [Q1]. Retrieved from <https://bmcpublihealth.biomedcentral.com/articles/10.1186/s12889-015-1416-z>

- 29 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. [doi:10.1109/CISTEM.2014.7077030](https://doi.org/10.1109/CISTEM.2014.7077030)
- 30 Hassine, K. B., El Riachy, M., Taamalli, A., Malouche, D., Ayadi, M., Talmoudi, K., ... Romano, E. et al. (2014). Consumer discrimination of chemlali and arbequina olive oil cultivars according to their cultivar, geographical origin, and processing system. *European journal of lipid science and technology*, 116(7), 812–824. [Q2]. Retrieved from <https://doi.org/10.1002/ejlt.201300254>
- 31 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. [Q3]. Retrieved from <https://www.em-consulte.com/article/911510/article/la-mortalite-parmi-les-enfants-ages-de-moins-de-15>
- 32 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. [Q3]. Retrieved from <https://www.em-consulte.com/article/915656/les-effets-de-la-temperature-sur-la-mortalite-chez>
- 33 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. [Q3]. Retrieved from <https://www.em-consulte.com/article/915651/article/mortalite-et-temperature-journaliere-en-tunisie%C2%A0-u>
- 34 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. [Q3]. Retrieved from <https://www.em-consulte.com/article/911552/article/methodologie-de-l-analyse-de-la-relation-temperatu>
- 35 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. [Q1]. Retrieved from <https://doi.org/10.1016/j.marpolbul.2014.05.014>
- 36 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 (ICCM)*, 1–6. Retrieved from <https://ieeexplore.ieee.org/document/6506162>
- 37 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. [Q1]. Retrieved from <https://scholar.cnki.net/Detail/doi/GARJ2013/SJES14010600411056>
- 38 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. [Q4]. Retrieved from https://www.latunisiemedicale.com/article-medicale-tunisie_2165_en
- 39 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. [Q2]. Retrieved from https://www.researchgate.net/publication/288652330_Influence_of_variety_geographical_site_and_extraction_system_on_virgin_olive_oil_VOO_linoleic_acid_composition_and_its_impact_on_consumer_preference
- 40 Malouche, D., & Rajaratnam, B. (2011). Gaussian covariance faithful markov trees. *Journal of Probability and Statistics*, 2011. [Q3]. Retrieved from <https://doi.org/10.1155/2011/152942>
- 41 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. [Q1]. [doi:10.1118/1.3528125](https://doi.org/10.1118/1.3528125). eprint: <https://aapm.onlinelibrary.wiley.com/doi/pdf/10.1118/1.3528125>
- 42 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. [Q4].

- 43 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. [Q4].
- 44 Ghouila, A., Jmel, H., Yahia, S., Malouche, D., & Abdelhak, S. (2009). Multi-som: A novel clustering approach for gene expression analysis. *Infection, Genetics, and Evolution: Journal of Molecular Epidemiology and Evolutionary Genetics in Infectious Diseases*, 9(3), 374–374. [Q1]. Retrieved from <https://europepmc.org/article/med/18992849>
- 45 Ghouila, A., Yahia, S. B., Malouche, D., Jmel, H., Laouini, D., Guerfali, F. Z., & Abdelhak, S. (2009). Application of multi-som clustering approach to macrophage gene expression analysis. *Infection, Genetics and Evolution*, 9(3), 328–336. [Q1]. Retrieved from <https://doi.org/10.1016/j.meegid.2008.09.009>
- 46 Malouche, D. (2009a). Determining full conditional independence by low-order conditioning. *Bernoulli*, 15(4), 1179–1189. [Q1]. Retrieved from <https://projecteuclid.org/journals/bernoulli/volume-15/issue-4/Determining-full-conditional-independence-by-low-order-conditioning/10.3150/09-BEJ193.full>
- 47 Malouche, D. (2009b). Mixed graphical model selection using holm's procedure. *Communications in Statistics-Theory and Methods*, 38(9), 1453–1464. [Q3]. Retrieved from <https://doi.org/10.1080/03610920802455019>
- 48 Arfa, I., Abid, A., Nouira, S., Elloumi-Zghal, H., Malouche, D., Mannai, I., ... Zouari, B. et al. (2008). Lack of association between the angiotensin-converting enzyme gene (i/d) polymorphism and diabetic nephropathy in tunisian type 2 diabetic patients. *Journal of the Renin-Angiotensin-Aldosterone System*, 9(1), 32–36. [Q2]. Retrieved from <https://doi.org/10.3317/jraas.2008.002>
- 49 Kokonendji, C. C., & Malouche, D. (2008). A property of count distributions in the hinde–demétrio family. *Communications in Statistics—Theory and Methods*, 37(12), 1823–1834. [Q3]. Retrieved from <https://doi.org/10.1080/03610920701809266>
- 50 Malouche, D., & Sevestre-Ghalila, S. (2008). Estimating high dimensional faithful gaussian graphical models by low-order conditioning. *Proceeding, of 26th IASTED International Multi-Conference on Applied Informatics, Artificial Intelligence and Applications*, 595–025. Retrieved from <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.246.9608>
- 51 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. [Q1].
- 52 Letac, G., Malouche, D., & Maurer, S. (2002). The real powers of the convolution of a negative binomial distribution and a bernoulli distribution. *Proceedings of the American Mathematical Society*, 130(7), 2107–2114. [Q1]. Retrieved from <https://www.ams.org/journals/proc/2002-130-07/S0002-9939-02-05352-2/>
- 53 Letac, G., & Malouche, D. (2000). The markov chain associated to a pick function. *Probability theory and related fields*, 118(4), 439–454. [Q1]. Retrieved from <https://link.springer.com/article/10.1007/PL00008750>
- 54 Malouche, D. (1998). Natural exponential families associated to pick functions. *Test*, 7(2), 391–412. [Q2]. Retrieved from <https://doi.org/10.1007/PL00008750>
- 55 Malouche, D. (1997). L'action quadratique du groupe des homographies sur les familles exponentielles réelles. *Comptes Rendus de l'Académie des Sciences-Series I-Mathematics*, 325(9), 1029–1032. [Q3].

Preprints

- 1 Malouche, D. (2021b). www.covidradar24.org, a real-time covid-19 tracker. Retrieved from https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3900615
- 2 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>
- 3 Malouche, D., & Ben Romdhane, H. (2020). Estimating excess mortality associated with covid-19 pandemic: A 151 cross-countries study. Retrieved from <https://dx.doi.org/10.2139/ssrn.3731481>
- 4 Jeddi, H., & Malouche, D. (2015). Wage gap between men and women in tunisia. Retrieved from <https://arxiv.org/abs/1511.02229>
- 5 Malouche, D., Rajaratnam, B., & Rolfs, B. T. (2013). Duality in graphical models. arXiv: 1310.2641 [math.PR]. Retrieved from <https://arxiv.org/abs/1310.2641>

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Others

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