KARIM MEZHOUD

I am Data Scientist and Associate Professor in Nuclear Science Center of Tunisia - Tunis. I am teaching Bioinformatics and Biostatistics to Master degrees in Biomedical. The courses and based on GNU/Linux environment and R programming language. I started wrangling Cancer genomics data and developing tools for Analysis, visualization and prediction. Today, I extended my skills to multiple data type for business solution, nuclear physic or Medical image processing. I am familiar with Python and the most known machine learning algorithms. Mainly I use R for EDA and Python for Prediction.



EXPERIENCE

2022 | Present

Charles Nicolle Hospitol of Tunis

System Administration and Data Scientist

- · HPE Data server Storage
- · Illumina Dragen Server for NGS data analysis
- · Illumina NextSeq 550



National Center for Nuclear Sciences and Technologies

Data Scientist

- · Dockerise shiny App in cloud
- · Web service, security, cloudflare, auth0, freenom
- · Dashboard, shiny, shinymobile
- · R package
- · Data cleaning, Processing, exploring, and visualization
- · Modeling and Prediction with R/Python
- · Data auto-Reporting (Rmarkdown)
- · RSQLite, MySQL, MSSQL
- · TABLEAU
- · github, gitlab, dockerhub
- · DigitalOcean
- · Agility: Scrum

2016 | Present

National Center for Nuclear Sciences and Technologies

Associate Professor

- · R programming Courses for Master degrees (Tunis, e-learning)
- · Soft Structural Bioinformatics courses for Master Degree (Tunis, e-learning)
- · Nuclear education network (e-learning, moodle)
- · Medical images classification using Deep Learning
- · Dosimetry data management and analysis

2015 | Present

National Center for Nuclear Sciences and Technologies

Data Analyst

Tunisia, Tunis

Tunisia. Tunis

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Tunisia, Tunis

- · Data analysis (Biology, health, Medicine, Pharma)
- · R Programming, Shell, Regex, Shiny App
- · Statistics: Pre-processing, Processing, & Data maning
- · GNU/Linux & OSX environment
- Deep user of Bioinformatics tools (Proteomics, Chemoinformatics, Pharmacophore, Toxicology)

2009 | 2016

National Center for Nuclear Sciences and Technologies

Assistant Professor

Tunisia, Tunis

- · Teaching Bioinformatics Master Degree
- · Research in Proteomics, Toxicology, & Mass Spectrometry

CONTACT INFO

Portfolio

github

in linkedin

k kaggle

J +216 25-909-901

SKILLS

System Administration

Data Analysis

Data Processing

Data Viz

GNU/Linux, OSX

R Shiny, Python, Bash,

Regex Docker

github, gitlab

Agility: Scrum, Kanban

LANGUAGE

English French Arabic

CERTIFICATES

Coursera (Bioinformatics & Biostatistics)
DataCamp (R)
Dataquest (R)
LinkedIn learning
(Cloudera, Hadoop)
Analytics Vidhya &
HackerRank (Python)

2004 2006	Freelance Self-employed Consultant in safety foods	aris, France		
	 Consultant in hygiene and food safety in collective catering and restaurant Hygene good practice analysis, Hazard Analytic Critical Control point (HAC Trainer in Food Safety 			
	☐ SELECTED PACKAGES			
2020	Orders and Stores web/mobile management Mobile App: R/Docker	♀ github		
2020	COVID Tracker RShiny Dashboard	♀ gitlab		
2019	Business Analysis of Laptops Rshiny Dashboard	♀ gitlab		
2017	Radiant.dose A shiny app for Dosimetry Data management Randiant.dose	♀ github		
2018	PapSmear: Uterine Cervical test image classification using Deep learning PapSmear	♀ github		
2016	BioCancer is a Shiny App to explore interactively Multi-Assay of Cancer G	a Shiny App to explore interactively Multi-Assay of Cancer Genomic		
	Data bioCancer	oconductor		
2015	canceR - A Graphical User Interface for accessing and modeling the Cancer Genomics Data of MSKCC			
		oconductor		
	EDUCATION			
2009 2013	Habilitation à Diriger des Recherches (HDR) Faculté des Sciences de Tunis ◆ Tu	ınisia, Tunis		
	 Graphical identification of cancer-associated gene sub-networks based on small proteomics data sets. Teaching 			
	 Structural Bioinformatics (3D protein structure modeling, Docking, interac GNU/Linux for Biology (Shell, regex) Introduction to R in Biology (How to choice of statistic tests, graphics) 	tomics)		
2004	PhD in Proteomics and Bioinformatics Museum National d'Histoire Naturelle	rance, Paris		
	 Proteomic and phosphoproteomic analysis of cellular responses in medak (Oryzias latipes) following oral gavage with microcystin-LR Animal assay: Mouse, Fish, Rat Cellular assay: CHOK1 	a fish		

· Electrophoresis, mass spectrometry, imaging, Western blot

2003	Master's degree in Biotechnology and Toxins		
2004	Museum National d'Histoire Naturelle, Paris	♥ France, Paris	
	Environmental ToxicologyFish ModelApoptosis		
	Stress Oxydative Acid Okadaic		
2002	Master's degree in Total Quality and Management		
 2003	Ecole Nationale Vétérinaire d'Alfort, Paris	♥ France, Paris	
	VeterinarySafety foodAgro-foodIndustryCatering		
1995	Engineer's degree in Agronomy: Food technology		
2000 _	Institut National Agronomique de Tunisie, Tunis	♥ Tunisia, Tunis	
	SELECTED PUBLICATIONS		
2014	Radiobiology Worker Risk Assessment Using Stress Indicators and Proteomics.		
	Karim Mezhoud , Amina Sakly, Hassen Ben Cheikh, Mouldi Sa ♥ <i>Int. J. Low Rad</i>	aïdi, and Marc Edery. <i>liation</i> Vol.9, No.3, 2014.	
2013	Graphical identification of cancer-associated gene sub-networ	ks based on small	
	proteomics data sets Karim Mezhoud	ogy 2013 17(7): 393-397.	
2011	Toxins and stress in fish: proteomic analysis and response network. Karim Mezhoud, Puiseux-Dao S., Edery M.		
2009	Deciphering peculiar protein-protein interacting modules in L	Deinococcus	
	<i>radiodurans</i> Mezhoud K., Sghaier H. and Barkallah I.	♥ Biology Direct	
2009	Toxicoproteomics: a way to unravel response pathways induced by a toxin Malécot M., Mezhoud K., Marie A., Praseuth D., Puiseux-Dao S. et Edery M. ◆ Aquatic Toxicology, (2009) 94(2):153-61.		
2008	Global quantitative analysis of protein expression and phosphorylation status in the liver of the medaka fish (<i>Oryzias latipes</i>) exposed to microcystin-LR I. Balneation study		
	Mezhoud K., Praseuth D., François J.C., Bernard C., and Edery	/ M. pgy, (2008) 86 : 166 - 175	
2008	Proteomic and phosphoproteomic analysis of cellular responses to microcystin-LR in medaka fish		
	Mezhoud K., Bauchet A.L., Praseuth D., Marie A., François J.C J.P., Cravedi J.P., Puiseux-Dao S., Bernard C. and Edery M. ♥ Toxic	., Fontaine J.J., Jaeg on 51 (2008) 1431 - 1439	
	Last updated on 2023-02-17.		