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 programing 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

2018
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Present

National Center for Nuclear Sciences and Technologies
Data Scientist
📍 Tunisia, Tunis

- Data cleaning, Processing, exploring, and visualization
- Train models and prediction
- Data auto-Reporting
- Dashboard, shiny, shinymobile
- Sparklyr & MLlib,
- RSQLite, MySQL, MSSQL
- TABLEAU
- Cloudera, Hive, Hadoop
- Dockerise R package
- Agility: Scrum, Kanban

2016
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Present

National Center for Nuclear Sciences and Technologies
Associate Professor
📍 Tunisia, Tunis

- 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
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Present

National Center for Nuclear Sciences and Technologies
Data Analyst
📍 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
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2016

National Center for Nuclear Sciences and Technologies
Assistant Professor
📍 Tunisia, Tunis

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

2004
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2006

Freelance Self-employed
Consultant in safety foods
📍 Paris, France

- Consultant in hygiene and food safety in collective catering and restaurant in Paris
- Hygene good practice analysis, Hazard Analytic Critical Control point (HACCP)
- Trainer in Food Safety

💻 SELECTED PACKAGES

2020

Orders and Stores web/mobile management
Mobile App: R/Docker
📍 github

CONTACT INFO

✉ kmezhoud@gmail.com
 github
 linkedin
k kaggle
📞 +216 25-909-901

SKILLS

Data Analysis
Data Processing
Data Viz
GNU/Linux, OSX
R Shiny, Python, Bash, Regex
github, gitlab
Agility: Scrum, Kanban

LANGUAGE

English
Frensh
Arabic

CERTIFICATES

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

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 Genomic Data
bioCancer ⚲ Bioconductor

2015 ● canceR – A Graphical User Interface for accessing and modeling the Cancer Genomics Data of MSKCC
canceR ⚲ Bioconductor

🎓 EDUCATION

2009 | 2013 ● Habilitation à Diriger des Recherches (HDR)
Faculté des Sciences de Tunis ⚲ Tunisia, Tunis

· Graphical identification of cancer-associated gene sub-networks based on small proteomics data sets.
· Teaching
· Structural Bioinformatics (3D protein structure modeling, Docking, interactomics)
· GNU/Linux for Biology (Shell, regex)
· Introduction to R in Biology (How to choice of statistic tests, graphics)

2004 | 2007 ● PhD in Proteomics and Bioinformatics
Museum National d'Histoire Naturelle ⚲ France, Paris

· Proteomic and phosphoproteomic analysis of cellular responses in medaka fish (Oryzias latipes) following oral gavage with microcystin-LR
· Animal assay: Mouse, Fish, Rat
· Cellular assay: CHOK1
· Electrophoresis, mass spectrometry, imaging, Western blot

2003 | 2004 ● Master's degree in Biotechnology and Toxins
Museum National d'Histoire Naturelle, Paris ⚲ France, Paris

· Environmental Toxicology
· Fish Model
· Apoptosis
· Stress Oxydative
· Acid Okadaic

2002 | 2003 ● Master's degree in Total Quality and Management
Ecole Nationale Vétérinaire d'Alfort, Paris ⚲ France, Paris

· Veterinary
· Safety food
· Agro-food
· Industry
· Catering

1995 | 2000

Engineer's degree in Agronomy: Food technology
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 Saïdi, and Marc Edery.
📍 *Int. J. Low Radiation* Vol.9, No.3, 2014.

2013

Graphical identification of cancer-associated gene sub-networks based on small proteomics data sets
Karim Mezhoud 📍 *OMICS: A Journal for Integrative Biology* 2013 17(7): 393-397.

2011

Toxins and stress in fish: proteomic analysis and response network.
Karim Mezhoud, Puiseux-Dao S., Edery M. 📍 *Toxicon*, 57(7-8), 959-969.

2009

Deciphering peculiar protein-protein interacting modules in *Deinococcus radiodurans*
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 (*Oryzias latipes*) exposed to microcystin-LR I. Balneation study
Mezhoud K., Praseuth D., François J.C., Bernard C., and Edery M.
📍 *Aquatic Toxicology*, (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., Fontaine J.J., Jaeg J.P., Cravedi J.P., Puiseux-Dao S., Bernard C. and Edery M.
📍 *Toxicon* 51 (2008) 1431 - 1439

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