



# Madjid SADALLAH

## ■ Ph.D., Research Engineer

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## SKILLS



### Front-end Dev

HTML CSS JS TypeScript  
jQuery Bootstrap Angular  
React Redux

### Back-end Dev

Node.js Express NGINX  
PHP LAMP WAMP

### Database

SQL NoSQL MySQL  
MongoDB PostgreSQL

### Analytics & DataViz

R RStudio Shiny Grafana  
Tableau D3 ChartJS

### IDE & CMS

Visual Studio VSCode ViM  
Eclipse DSpace Moodle  
Wordpress Joomla!

### Other

C/C++ UML SVN Git  
Markdown LaTeX Bibtex

## EDUCATION



### Ph.D. in Computer Sci. |

U. Bejaia 📍 DZ 📅 Apr 2019

### Magister in Comp. Sci. |

U. Bejaia 📍 DZ 📅 Oct 2011

### Engineer in Comp. Sci. |

USTHB 📍 DZ 📅 Sep 2004

## MISC.



### Languages



English Professional  
French Fluent  
Arabic Fluent  
Berber Mother tongue

### Other



- Chair of the startup competition "Challenge Days", DZ 📄
- Member CERINUX group for promoting open source, DZ 📄
- Member of the "Cénacle", a local book reading club, DZ

## EXPERIENCE



### Postdoc Researcher | IMT Atl./LabSTICC 📍 Brest, FR 📅 Since Nov. 2021

- coded scripts for mining educational logs and computing KPIs (R/SQL)
- designed and implemented UIs for graphical expression of analytics scenarios and reports (React/Node/Express/MySQL)
- developed a generator of learning analytics dashboards from descriptive specifications, exportable to Grafana (JS/D3)
- participated in initiating a codesign task force (PadLAD 📄) and organizing community meetings and workshops

### Permanent Researcher | CERIST 📍 Algiers, DZ 📅 Dec 2011 – Oct 2020

- played full role within a RD service env, involved in several projects
- proposed and implemented novel algorithms for course reading analytics (R/SQL)
- implemented a toolkit to generate assistive dashboards for suggesting course improvements (Angular, Node, Express, MongoDB)
- gave courses (IS, sysadmin, R) and supervised students and junior researchers in data analytics (tableau, rstats, etc.), and IHM/dataviz (d3, ggplot, shiny)

### Software Engineer | CERIST 📍 Algiers, DZ 📅 Apr 2004 – Nov 2011

- built a DSL and a framework for supporting hypervideos using Web standards (HTML5, CSS3, Media Annotation, Media Fragments, and SMIL).
- developed and ensured executive responsibility of CERIST DL, an institutional digital library (DSpace, XSLT, JSP, OAI-PMH)
- conducted training programs for academic staff on digitization and building, deploying, and harvesting institutional repositories (DSpace)
- lead the development of MediaStudio, a richmedia authoring and content adaptation platform (Visual Studio C++)

## SELECTED PROJECTS



### LADStudio | React + Node + Express + MySQL + Grafana + D3 📄 📄

A platform with a UI for analyzing learners' log data and defining and computing KPIs, expressing visually analytics scenarios, and generating suitable learning analytics dashboards that can be injected into Grafana.

### CoReaDa | R/RStudio + Angular + MongoDB + Express + Node 📄 📄

A tool for course reading analytics. It uses learners' logs to detect their comprehension issues, and to suggest remediation suggestions using dashboards. Tested with OpenClassrooms MOOCs authors with data of their courses.

### WebCHM | HTML5 + CSS3 + JQuery + SMIL + JSON + DOM Script. 📄 📄

A framework for generating rich and interactive hyperlinked videos compatible with HTML5 standard. Part of Advène 📄 video-annotation tool, it was tested in numerous projects (e.g., Cinecast)

### CERIST DL | DSpace + JSP + XSLT + OAI-PMH 📄

An institutional repository for the CERIST research center. It provides access to different scientific outputs: academic papers, technical or research reports, theses, course materials, etc.