

# CLÉMENT RIEDEL

## DATA SCIENTIST

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ds4all.io



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clemriedel



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## Experience

### Data Science Immersive at Galvanize

12 weeks data science immersive.

Apr 2016 - Jul 2016

### Data Scientist at the D-Lab

I was creating data science products and teaching classes. We worked on a virtual environment; my classes and products focused on supervised and unsupervised learning.

Jan 2014 - Apr 2016

### Research Associate in Single molecule biophysics (UC Berkeley)

Publication as 1<sup>st</sup> author in *Nature*. I performed experiments, developed codes using machine learning (automated regressions with complex models; Hidden Markov Models on noisy data...), led team.

Oct 2011 - Mar 2016

## Education

### Postdoc in nanophysics (Universidad Autonoma de Madrid)

4 publications (3 as 1<sup>st</sup> author), 1 oral. Simulation (Matalb) of the electrodynamic interaction between a nanometric probe and dielectric material.

Oct 2010 - Oct 2011

### PhD: Dielectric and mechanical properties of polymers at macro & nanoscale

9 publications (8 as 1<sup>st</sup> author), 4 orals, **80 hours of teaching**. (Universidad del Pais Vasco)

Sep 2007 - Oct 2010

### Master of physics "Cosmos, fields and particles" (Université Montpellier 2)

Sep 2005 - Jul 2007

### License of physical science (Université Montpellier 2)

Sep 2002 - Jul 2005

## Data Science skills (see ds4all.io)

Fluent in python, matlab and R. SQL / Postgres to interact with databases and choose the right tool to solve the problem. (Experience with hadoop / map reduce / spark for big data. MongoDB and BS for scrapping.)

Supervised / Non supervised learning. Regression, regularization, neural networks, clustering, dimensionality reduction, anomaly detection, bootstrapping, random forest...

Natural Language Processing: LDA (i.e. topic modeling), LSA, NER (Stanford), document similarity and summarization. Author of NLQ.

Dynamic Data Science web application on cloud services (AWS EC2).

High quality presentation and communication. Experience leading team. Product management: Build - Measure - Learn. Persevere or Pivot. Accelerate. (Lean Startup method).

## Achievements and awards

Green card upon Extraordinary Abilities in science (EB-1A).

Founder of 'Data Science for all' ds4all.io. The platform aims to bring data science awareness to the people and provide easy-to-use data science tools.

Human Frontier Science Program: Award of 150k\$ that permits exceptional young scientists to perform research and at the interface of life sciences.

Janus fellowship for the best undergraduate research program.

*A full resume with list of publications, invited talks, book chapters... can be found at ds4all.io/clem*