

RICARD ILLA

DATA ENGINEER
BACKEND DEVELOPER

CONTACT

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08031 Barcelona

PERSONAL

Date of birth 15/10/1990

Nationality

Spanish

Languages

Catalan Spanish English

EXPERIENCE

June 2019 - October 2020

company

LEAD RATINGS

position

Data Engineer

duties

Develop and maintain a data-centered ML SaaS platform Assist Data Scientists' internal workflow

Assist Data Scientists' internal workflow Develop connectors to third party platforms

technologies

Python Django

Amazon web services

Docker and Docker Swarm

Redis MySQL Elasticsearch Numpy and Pandas

Git

July 2018 - June 2019

company

SELLBYTELL GROUP

position

GCP Support Engineer (Big Data and ML specialist)

duties

Provide Big Data and Machine Learning technical support to

Google Cloud Platform users

Troubleshoot and debug customer's issues

technologies

Google Cloud Platform

BigQuery

Google Ďataflow / Apache Beam Google Composer / Apache Airflow

Google Cloud Pub/Sub

Python

November 2013 - April 2018

institution

INSTITUTE FOR RESEARCH IN BIOMEDICINE (BARCELONA)

group

Molecular Modeling and Bioinformatics

position

PhD Student

duties

Perform bioinformatics research on Nucleosome Positioning

Develop and implement statistical analysis methods

Develop and maintain R packages

Integrate my code into bigger genomics frameworks

technologies

R C

Python Bioconductor Sun Grid Engine MongoDB

EDUCATION

2013-2018

PhD in BIOMEDICINE (unfinished)

Universidad de Barcelona

2012-2013

MSc in BIOINFORMATICS

Universidad Autònoma de Barcelona

2008-2012

BSc in BIOCHEMISTRY

Universidad Autònoma de Barcelona

RESEARCH PUBLISHED SOFTWARE

name | NucleosomeDynamics

languange R and C

function Suite for nucleosome positioning analysis using MNase-seq

forms Standalone R package

Backend to the NucleosomeDynamics web service

Tool integrated within the VRE of the Multiscale Genomics European project

CONGRESSES ATTENDED

2016

name 15th European Conference on Computational Biology

location World Forum Convention Center (The Hague, Nederlands)

poster presented NucleosomeDynamics: a web portal to analyze and visualize MNase-seq data

name XIII Symposium in Bioinformatics

location Universidad politécnica de Valencia (Valencia, Spain)

talk given NucleosomeDynamics: a web portal to analyze and visualize MNase-seq data

WORKSHOPS GIVEN

2017

name Multi-scale study of 3D Chromatin Structure

location European Bioinformatics Institute (Cambridge, UK)

topic I covered MNase-seq data analysis using the MuG research environment

name Multi-scale genomics

location | Barcelona Supercomputing Center (Barcelona)

topic I covered MNase-seq data analysis using the MuG research environment

2016

name 3DAROC 2016

location Instituto Gulbenikan de la ciéncia (Lisboa, Portugal)

topic I covered | MNase-seq data analysis using the NucleosomeDynamics portal

INTERSHIPS

2011 - 2013

description | Master's internship / Colaboration scolarship / Degree's internship

group Protein folding and conformational diseases

institution Institute of Biotechnology and Biomedicine (Barcelona)

2012

description Internship

group **Peptide synthesis and protein structure**

institution Institute for Research in Biomedicine (Barcelona)

2012

description Exchange Student

group Biophysics and radiation biology institution Semmelweis University (Budapest)

PUBLICATIONS

Buitrago D, Codó L, Illa R, et al. Nucleosome Dynamics: a new tool for the dynamic analysis of nucleosome positioning. Nucleic Acids Res. 2019;47(18):9511-9523. doi:10.1093/nar/gkz759

Dans PD, Danilāne L, Ivani I, et al. Long-timescale dynamics of the Drew-Dickerson dodecamer. Nucleic Acids Res. 2016;44(9):4052-4066. doi:10.1093/-nar/gkw264

Zambrano R, Conchillo-Sole O, Iglesias V, et al. PrionW: a server to identify proteins containing glutamine/asparagine rich prion-like domains and their amyloid cores. Nucleic Acids Res. 2015;43(W1):W331-W337. doi:10.1093/nar/qkv490

Navarro S, Diaz-Caballero M, Illa R, Ventura S. Aggregation propensity of neuronal receptors: potential implications in neurodegenerative disorders. Future Sci OA. 2015;1(2):

FSO39. Published 2015 Sep 1. doi:10.4155/fso.15.39

Fraga H, Graña-Montes R, Illa R, Covaleda G, Ventura S. Association between foldability and aggregation propensity in small disulfide-rich proteins. Antioxid Redox Signal. 2014;21(3):368-383. doi:10.1089/ars.2013.5543