

Andrea Ariani, Ph.D.

Bioinformatic scientist

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SUMMARY

Data scientist with a background in quantitative life sciences and a strong interest in the application of advanced bioinformatics and machine learning tools for solving complex biological problems

EDUCATION

Ph.D. Genomics and Crops Sciences

BioLabs, Scuola Superiore Sant'Anna – Pisa, Italy
Ph.D. thesis: *Populus* and heavy metal stress: genomic, biochemical and physiological approaches
Final grade: 100/100

KEY SKILLS

Genomics and bioinformatics
R/Python programming
Advanced data analysis and visualization
Molecular breeding
Machine Learning
GIS data analysis
Project management
Agriculture

LANGUAGES

Italian (Native speaker)
English (Bilingual)
Dutch (Intermediate)
Spanish (Intermediate)

Hobbies

Piano playing
Gardening

EXPERIENCE

Aug 2018

Scientist Gene Identification • BASF BBCC • Innovation Center, Gent, Belgium

- Coordinate and lead activities for structural variants detection in wheat using short reads data
- Plan and coordinate forward genetic activities in wheat across two research sites
- Development of automated pipelines for increasing throughput of reverse genetic screenings in wheat
- Development of feasibility studies using data modeling and simulations for facilitating planning and decisional processes

Mar 2018 – Jul 2018

Quantitative geneticist Applied Genetics • Bayer CropScience N. V. • Innovation Center, Gent, Belgium

Feb 2014 – Feb 2018

Postdoctoral researcher, landscape genomics • Gepts lab, Dept. of Plant Sciences • University of California

- Lead bioinformatic data generation and analysis for molecular breeding activities
- Understand genetic architecture of wild bean environmental adaptation for selecting pre-breeding material

TRAININGS

Sept 2021

Persuasive communication (Overtuigend communiceren) • Expert Academy

Sept 2020

Communication: generating impact and being assertive • BASF

Jan 2020

Project management • BASF