

Jeroen Stein

Data scientist
Bioengineer
Visualization expert

Online interactive resume
(github.io)

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Linkedin >>
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Profile

A results-driven data scientist with expertise in image analysis, RNA-seq, advanced data visualization techniques, and robust programming skills in R and Python. Skilled in the application of machine learning algorithms to complex biological datasets. Proven ability to design and implement data-driven solutions for a wide range of challenges. Thrives on efficiency.

Education

2010-2015
University of Utrecht
Bachelor of Science
Biomedical Sciences

2015-2018
University of Utrecht
Master of Science
Biology of Disease

2018-2022
Leiden Medical Center
PhD
Anatomy and Embryology

Skills

Detail oriented
Organized
Analytic
Creative
Engineer mindset
Data visualization
Communicative
Thrives on challenges

Work experience

DATA SCIENTIST

Ncardia, Leiden
December 2022 - Now

- Develop ETL analysis pipelines for various lab-based instruments
- Act as go-to point for any biostatistics-related challenge
- Develop supervised and unsupervised machine learning algorithms to improve differentiation efficiency of 3D bioreactor cultures
- Design 12+ Shiny dashboards with a broad range of use-cases: Experimental data, RNAseq, HCI-analysis, liquid nitrogen storage, stock products, project administration, etc.
- Highly experienced in R, ShinyR, competent in Python, Git, GNU, SQL

PHD-RESEARCHER

Leiden University Medical Center, dept. Anatomy and Embryology
February 2018 - November 2022

- Culture human induced pluripotent stem cells and differentiate these into cardiomyocytes, endothelial cells, cardiac fibroblasts
- Design, write, and review 5 peer-reviewed research articles in high impact journals
- Collaborate in an international environment, visit 20+ international science conferences and present various posters and presentations
- Write software in Python for performing complex pixel-based algorithm for analysis of striated muscle length and organization parameters

Technical skills

Data warehousing
Data governance
Machine learning
Complex biostatistics
Stable ETL pipelines
Shiny dashboards
Interactive Quarto reports
RNA-sequencing data
SQL databases
Advanced visualizations

Languages

Dutch
English
French

Software proficiencies

R-studio
Python
Shiny
Github
Adobe
CellProfiler
Cursor IDE
Docker

Hobbies

Volleybal trainer
Gitarist/drummer
Cycling
Hiking
Snowboarding
Nature

MAJOR SCIENCE PROJECT

University Medical Center Utrecht, dept. Molecular Cancer Research
March 2015 - August 2016

- Investigated proteins involved in mechanotransduction
- Use complex image analysis assays in ImageJ with custom plugins

LITERATURE REVIEW PROJECT

University Medical Center Utrecht, dept. Experimental Cardiology
December 2016 - March 2017

- Write review article on subject of cardiac fibrosis in circulatory disease, published in peer-reviewed journal

MINOR SCIENCE PROJECT

Regenerative Medicine Center Utrecht
March 2017 – December 2017

- Explored hydrogel-based miRNA drug delivery in 3D osteoarthritis models, published in peer-reviewed journal

Other professional experience

BOARD SECRETARY OF THE STUDY ASSOCIATION

M.B.V. Mebiose
2014 - 2015

DATAMINER

Skinconsult B.V.
2014 - 2015

COLUMNIST

Tight Junction biomedical magazine
2014 - 2018

ELDERY CARE HOST

Vivium Zorggroep, De Antonius Hof
2007-2013