

# Alvaro Sanchez-Villalba, M.Sc.

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<https://github.com/svalvaro>

<https://svalvaro.github.io/>

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## Work Experience


- 2022 – . . . . . **R Developer, Appsilon**  
Creation and maintenance of various web applications for pharmaceutical companies like Merck, J&J and Genmab. These applications were used for drug development, data analysis in clinical trials, etc.  
Improvement of internal software used by Data Scientists in the creation of reports at one FAANG.  
Quick prototyping and rapid creation of proof of concepts that led to signing new deals for Appsilon.
- 2020 – 2022 **Bioinformatician., Institute of Physiology of the Czech Academy of Sciences**  
Design of experiments for the Proteomics Service Lab.  
Development of the R package: [MQmetrics](#), creation and management of Shiny apps deployed on local Linux servers: MQanalyser, ProteoViewer and [drawCell](#).  
Analysis of the proteomics data produced by LC -MS/MS, and creation of ready-to-publish plots and graphs.
- 2019 – 2020 **Junior Scientist., Czech Centre for Phenogenomics**  
Analysis of the gene Cluh in the glucose metabolism. Wet lab skills: cell culture, mice experiments, proteomics and transcriptomics.
- 2018 – 2019 **Bioinformatician assistant., Granada University**  
Data mining of NGS sequencing, implementing the workflow *satMiner* in several species of *Drosophila*.

## Academic Training

- 2017 – 2018 **M.Sc. Genetics and Evolution, Granada University** emphasis in bioinformatics.  
Thesis title: *Unraveling the satellite DNA of different species of Drosophila melanogaster*.
- 2013 – 2017 **B.Sc. Biotechnology, Cadiz University** specialisation in bio-sanitary research .  
Thesis title: *Role of alternative splicing in the  $\Delta$ -6-desaturase in Dicentrarchus labrax*
- Courses **SQL** for Data Science, 2021.  
RaukR, advanced R for bioinformatics, 2021.  
Intro to Deep Learning, 2021.  
R/Bioconductor for Mass Spectrometry and Proteomics, 2021.  
Machine Learning from Andrew NG, 2021.  
Data Science with R, 2020.  
"How to publish in peer-reviewed journals", 2020.  
Several Bioinformatics Courses, 2019 - 2020.  
Advances in Molecular Genetics, 2019.  
Molecular Oncology, 2018.



## Academic Training (continued)

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- Conferences     7th DZD Diabetes Research School, Barcelona 2019. Poster.  
European advanced school for mouse phenogenomics, Strasbourg 2019.  
Czech Centre for Phenogenomics Conference, Prague 2019. Poster.  
Biopolis Symposium, Dresden 2020. Poster & Short talk.

## Skills


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- Languages     English & Spanish, both at native level.
- Coding     R: Advanced level.  
Python: Intermediate.  
SQL: Intermediate level.  
L<sup>A</sup>T<sub>E</sub>X: Advanced level.  
Bash: Intermediate level.  
Git: Advanced.  
Agile methodology: Advanced. Besides, daily communication with stakeholders and product owners.



## Miscellaneous

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### Awards

- 2019     **Merit Award**, European advanced school for mouse phenogenomics. Awarded with the book *Genetics of the Mouse* signed by its author.

### Certification

- 2023     **Professional Scrum Master I (PSM I)**. Awarded by *Scrum.org*
- 2020     **Certificate of professional competence to design experiments and experimental projects**. Awarded by Charles University.