

# MARC GALLAND

## Bioinformatician & Mozilla Study Group Community Lead

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## EXPERIENCE

### Data Scientist & Community Lead

#### University of Amsterdam

📅 May 2017 – Ongoing    📍 Amsterdam, the Netherlands

- Lead and coordinate a Mozilla Study Group
- Routinely perform NGS analyses (variant, RNA-Seq)
- Organize Software/Data Carpentry training events
- Implement a Research Data Management infrastructure with breeders

### Postdoctoral researcher

#### University of Amsterdam

📅 May 2014 – April 2017    📍 Amsterdam, The Netherlands

- Identified gene/metabolic candidates related to phenotypes (Machine Learning, Regularised Regressions)
- Created *ad hoc* R/Shiny applications for bioassays and RNA-Seq
- Built NGS bioinformatic pipelines using Snakemake
- Extensive collaboration with the breeding industry (Enza Zaden B.V.)
- Obtained a Marie Curie-Sklodowska Individual Fellowship (2015-2017)

### Postdoctoral researcher

#### Institute Jean-Pierre Bourgin

📅 May 2010 – April 2014    📍 Versailles, France

- Investigated seed germination with a combination of "omics"
- Analysed transcriptomics, proteomics and metabolomics data
- Collaboration with the industry (SEB, world leader in small household equipment)

### PhD in Plant Biology

#### University of Montpellier

📅 Oct 2006 – Dec 2009    📍 Montpellier, France

## WEEKLY SCHEDULE



## BIOINFORMATICS

- 🐧 **Shell**  
Basic commands, scripting, ssh/scp
- 📄 **Python**  
Basic commands, scripting, ssh/scp
- 🔗 **Snakemake**  
Genomic pipelines
- 🔄 **Reproducible research**  
Bioconda, Git/Github

## DATA ANALYSIS

- 📊 **Statistics with R**  
Plots, Linear Modeling
- ⚙️ **Data mining**  
Machine Learning (Random Forest)  
Regularised Regressions (Elastic-Net)

## DATA STEWARDSHIP

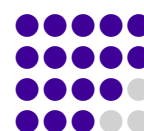
- 📁 **File Archiving**  
SURF Data Archive, Zenodo
- 🔒 **Data security**  
Secure file transfer protocols  
Plant Breeders data management project
- 📝 **Data Management Plan writing**  
ZonMW/NWO Technology Hotel  
VIDI grant

## TEACHING & EVENTS

- 💻 **Software/Data Carpentry workshops**  
Oct 2016: Basics in Shell, Python, Git  
March 2017: Genomics (R,Shell)  
Dec 2017: Genomics (Shell, RDM, Cloud)

## LANGUAGES

French (mother tongue)  
English  
Spanish  
Dutch (A2/B1 level)



## EDUCATION

### PhD in Plant Molecular Biology

#### University of Montpellier

📅 Oct 2006 – Dec 2009