

# Marie Zufferey

CH / 09.12.1993

Single



+41 79 537 41 07



zufferey.marie@bluewin.ch

## Languages

- French (mother tongue)
- English (B2)
- German (B1-B2)

## Computer skills

- environment:  
Linux, Windows,  
(Mac)
- programming:  
- strong skills in  
R and Python;  
- shell scripting, C++;  
- basic skills in C, Java and html
- office automation:  
latex, Libre Office,  
Microsoft Office
- development:  
use of GitHub and Bitbucket

## Interests

- genomics, ethnobiology,  
plant sciences
- gardening, dog walking,  
hiking
- reading (philosophy, ethics,  
history)

## Professional experience

2017-*	<b>PhD candidate in Computer Systems Oncology lab</b> - Thesis title: exploring differential activation of topologically associating domains in cancer - First-author articles: <i>Genome Biology</i> 2018, <i>Nature Genetics</i> 2019 - Poster presentation: EMBL conference <i>Transcription and chromatin</i> 2018 - Teaching assistance: Python programming (BSc), Bioinformatics (MSc) <i>supervisor: Prof. Giovanni Ciriello</i>	University of Lausanne
FS 2017	<b>Student-assistant</b> - Practical exercises of the course "Bioinformatique" <i>teacher: Prof. Marc Robinson-Rechavi</i>	University of Lausanne
SS 2016	<b>Student-assistant</b> - Practical works of the course "Botanique pharmaceutique" <i>teacher: Dr. Jonathan Kissling</i>	University of Neuchâtel
SS 2015	<b>Student-assistant</b> - Practical works of the course "Botanique pharmaceutique" <i>teacher: Dr. Jonathan Kissling</i> - Writing of a tutorial about text data analysis <i>teacher: Dr. Alexandre Aebi</i> - Field sampling (botany, pedology) <i>teacher: Dr. Jason Grant</i>	University of Neuchâtel
2013-16	<b>Editor of the French pages of the Vivace magazine</b> Writing and translation (German-French) <i>Association des Amis suisses des plantes vivaces</i>	

## Professional internships

2015	<b>Bioinformatics internship (2 months)</b> <i>Evolutionary bioinformatics group of Prof. Robinson-Rechavi</i>	University of Lausanne
2014	<b>Internship at the Department of agriculture (3 months)</b> Office of direct payments, sect. Biodiversity and rural areas	State of Valais, Châteauneuf
2013	<b>Stage at Mediplant (2 months)</b> Research institute for aromatic and medicinal plants	Conthey (VS)
2013	<b>Data entry for L'Azuré</b> Office for applied ecology	Cernier (NE)
2012	<b>Stage at Agridea (6 months)</b> Ecologic compensation and promotion of biodiversity	Lausanne (VD)
2011-12	<b>Work in the domain of impact studies (4 months)</b> Etat du Valais, Department of environment protection	Sion
2011	<b>Various internships (gardening, viticulture, perennial plants)</b> - Research institute for agroecology, Ayent (VS) (1 month) - Lautre Jardin, Cormérod (FR) (3 months)	

## Education

2018-*	<b>Certificate of Advanced Studies in applied data science</b> Covered topics: data acquisition and management, statistical inference, data analysis and machine learning, ethics and best practices (12 ECTS)	University of Bern
2017-*	<b>PhD programme in Life sciences (Cancer and Immunology)</b> Courses from the doctoral school (9 ECTS) SIB training: 5 courses (3.25 ECTS), autumn school in machine learning (2 ECTS)	University of Lausanne
2015-17	<b>MSc Life sciences (90 ECTS)</b> Specialization in bioinformatics	University of Lausanne
2012-15	<b>BSc Biology-ethnology (180 ECTS)</b> Distinction/grade: excellent/ <i>summa cum laude</i> , Prix Jean Landry	University of Neuchâtel
2008-10	<b>3<sup>d</sup>-5<sup>th</sup> high school</b> Baccalaureate obtained in 2010, option biology-chemistry	Lycée-collège des Creusets, Sion
2006-08	<b>1<sup>st</sup>-2<sup>d</sup> high school</b> Immersion in the german-speaking part of the canton	Kollegium Spiritus Sanctus, Brig

## Miscellaneous

Since 2018	<b>Founding member and co-president of the regional group of reach in Lausanne</b> Organization of events bringing society and science closer together
Since 2014	<b>Founding member of the association Le Rougegorgé</b> - Organization of activities and projects related to nature protection - Writing on environmental topics in regional press
Since 2012	<b>Member of the Swiss study foundation</b> Participation in various training courses and seminars