

GENEVA  
SUMMER  
SCHOOLS

# R-PROGRAMMING FOR DATA SCIENCE

JULY 1 – 5, 2019

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GENEVA SCHOOL OF  
ECONOMICS AND MANAGEMENT



UNIVERSITÉ  
DE GENÈVE

# R-PROGRAMMING FOR DATA SCIENCE

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- In the Big Data era, programming skills and data analysis techniques are necessary to acquire independence for critical thinking. This course is aimed at introducing student to such skills, using the open source R-project platform from which bridges can be built between different software and tasks.
- The final objective is to be able to deliver computationally efficient solutions, from data management to data analytics. Most of the course content can be found at <http://r.smac-group.com>.
- The course introduces the tools and workflow for reproducible research (R/RStudio, Git/GitHub, etc.), tidy data and data wrangling, data, computer memory and computations management, developing new software tools including functions, Shiny applications, and packages (including version control, documentation and dissemination for other users).
- A part of the course is dedicated to the introduction of the most recent SAS analytics tools (free access for all students) with R and Python integration, through business related case studies. This new software is released under the name SAS Viya (see [https://www.sas.com/fr\\_fr/home.html](https://www.sas.com/fr_fr/home.html))

## COURSE DIRECTORS

### Prof. Stéphane Guerrier

Geneva School of Economics and Management and School of Pharmaceutical Sciences, University of Geneva

### Prof. Maria-Pia Victoria-Feser

Geneva School of Economics and Management, University of Geneva

## SAS ADVANCED ANALYTICS REPRESENTATIVE

### Markus Grau

Academic Program Manager, SAS industries

## Tuition fees

**1'350 CHF**

External Students: **990 CHF**

## Final Deadline

April 15, 2019