# RITME ACADEMY



**STATA SPRING SCHOOL**

Policy impact evaluation:
from causes to effects

From **March 20** to **23, 2023**

**RITME - Brussels** (BELGIUM)

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*Program evaluation methods* are widely applied in economics to assess the effects of policy interventions and other treatments of interest (in health, labor, education, finance, marketing, etc.).

*Providing effective evaluation of economic, social and medical programs* has become an increasingly important requirement for both public and private institutions.

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## 1. COURSE AIM

The school offers participants the opportunity to master the essential theoretical and applied tools required for the correct implementation of modern methods for policy evaluation.

As such, the program has been developed to encompass both:

- **standard statistical methods of program evaluation:** regression-adjustment, matching, selection-models and difference-in-differences methodologies,

- **more advanced econometric techniques**: for example, regression discontinuity design and synthetic control method.

## 2. TARGET GROUP

**Researchers and professionals working in public and private institutions** needing to undertake econometric program evaluation analysis **using micro data**.

These methodologies are commonly used to evaluate policy interventions in, for example, the labor market, investment activities of enterprises, education policy, regional development, public health sector evaluation, etc.

To participate in this school **a prior knowledge in Stata** (data manipulation, basic programing) and some prior knowledge master degree level in econometrics techniques (i.e regression analysis) are required to follow and actively participate in the empirical sessions during the course.

**Attendees may register for Session 1, Session 2 or both.**

All courses will be taught in <u>English</u>.

## 3. OBJECTIVES

At the end of the school participants are expected to be able **to master complex evaluation design** by:

- Identifying a causal inference issue,
- Defining the type of data required in their specific policy framework,
- Evaluating which specific econometric method is more appropriate for the analysis in hand and importantly which is not,
- Applying the method and presenting the results,
- And finally extracting policy recommendations from the obtained results.

## 4. INSTRUCTORS



**Salima BOUAYAD AGHA**

Salima is a **lecturer and researcher** at Le Mans Université (France). She's currently head of the Master's Degree in *Labour Economics* and *Human Resources* and the student entrepreneurship officer.

She has more than 30 years of experience in Advanced and Applied Econometrics, Economic Geography, Econometric Analysis (CEPE-ENSAE ParisTech; Université du Maine).

She's been working with **RITME** for more than 20 years on **training and consulting missions** for Academia, EU entities and NGOs in statistics, economics and specific software tools and languages (Stata, EViews, R, Python..).

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Ahmed is an **economist, professor** at University of Poitiers and researcher at Crief, FR CNRS TEPP. He is also a research fellow at the Chaire *Energy and prosperity*, Institut des Migrations, and Mines ParisTech, where he is co-head of the Chaire *Industrial Economics of Emerging Africa* (UM6P-Mines ParisTech). He was previously a research economist at Cepii (Paris) (2008-2010) and research fellow at the Robert Schumann Center for Advanced Studies at European University Institute (2006-2008).

His research focuses on the broad **field of labor** and especially on issues related to human capital, migrations, inequalities, and evaluation of public policies.

He has worked as an expert and consultant for various national and international organizations working in the field of economic development (World Bank, United Nations Development Program, FMO).

Ahmed TRITAH

## 5. PRELIMINARY PROGRAM

### SESSION 1 (20-21 March 2022)

- Introduction

- Causal Inference and Program Evaluation
    - → Causality and Potential Outcomes
    - → Causality the directed dyadic acyclic graph
    - → Confounding
    - → Counterfactual Causality
    - → Experimental and Quasi-experimental settings

    A. Non-random sampling: selection on observables
    - → Identification by CIA (Conditional Independence Assumption)
    - → Regression adjustments
    - → Matching Estimators
    - → Implementation in Stata

    B. Non-random sampling: selection on unobservables

- Differences in differences
    - → DID Statistical setting
    - → DID with panel data
    - → DID with repeated cross-sections
    - → Implementation in Stata

## SESSION 2 (22-23 March 2022)

- The Synthetic Control Method
  - → SCM statistical setting
  - → Implementation in Stata
  - → Non-parametric SCM and Stata Implementation

- Instrumental Variables and Selection Models
  - → The logic of IV
  - → Endogeneity and consistent estimation
  - → Heterogeneity and Local Average Treatment Estimator
  - → Implementation in Stata
  - → Dealing with selection on unobservables: sensitivity analysis

- Regression discontinuity design (RDD)
  - → The RDD setting
    - o *Sharp Design*
    - o *Fuzzy Design*
  - → Relation between RDD LATE-IV
  - → Graphical analysis and RDD
  - → Stata implementation

- Treatment effect beyond the mean
  - → Marginal treatment effect
  - → Distributional analysis and quantile treatment effect
  - → Stata Application

## 6. SCHEDULE



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| Welcome breakfast | 08:30 |
| Start | 09:00 |
| Lunch break | 12:30 – 13:30 |
| End | 17:00 |

*Please make sure that you arrive at 08:45 so that the instructors can start the course at 9:00 sharp.*

## 7.  REGISTRATION FEES

|  | SESSION 1<br>20-21 March, 2023 | SESSION 2<br>22-23 March, 2023 | SESSION 1 + 2<br>20-23 March, 2023 |
|---|---|---|---|
| **Non-academic** | 1350 € VAT excl | 1350 € VAT excl | 2430 € VAT excl |
| **Academic** | 995 € VAT excl | 995 € VAT excl | 1790 € VAT excl |

**EARLY BIRD REGISTRATION**
**5 % discount for a registration prior to the 31/12/2022.**

Places are limited! Please register early to guarantee your place.

We offer additional discounts for multiple registrations.

Registration closes 14-calendar days prior to the start of the course.

**Costs include** course materials, welcome breakfast, lunch, coffee breaks and refreshments.
Please let us know prior to the training if you are on a specific diet.

This is a 'bring-your-own-device' training course. The attendees are provided with complimentary temporary licenses of Stata (current version) and will be instructed how to download and install the software prior to the start of the course.

Alternatively, laptops can be hired if you do not have your own laptops. Please contact us for more information.

## 8. TRAVEL & ACCOMODATION ARRANGEMENTS

### LOCATION OF THE TRAINING COURSES

**RITME**
Factory Forty Building
Rue des Anciens Etangs 40
1190 Brussels (Belgium)

- 10 min - tram from the Brussels South Station
- 35 min - train to Brussels Airport

If you need assistance in booking accommodations in the city, we'll be happy to help you.

Delegates from abroad (except European citizens) may need a **VISA** to enter the Belgian territories.
We can provide invitation letters for delegates confirming they are attending the course, but only after course payment has been received in full.

## 9. TERMS AND CONDITIONS

- Pre-registrations can be made by filling in the registration form available on our website.

- The registration of the trainee(s) must be confirmed by placing a purchase order (if the institution is supporting the registration fees). The purchase order must be placed no later than 15 days before the opening date of the course. Unless otherwise agreed, the full fee is payable at the time of booking/confirmation of the course.

- 100% fee returned for cancellations made over 28-calendar days prior to start of the course.

- 50% fee returned for cancellations made 14-calendar days prior to the start of the course.

- The full fee shall be retained by RITME for cancellations made less than 14-calendar days prior to the start of the course.

- If You fail to attend the course on which you are booked and have not given prior notice to the Company then the course fee will remain payable in full.

- Any course started will be invoiced in full.

- You may transfer your place to a substitute person as long as the Company receives written notification of the substitution by You and that the proposed substituting person agrees to these terms and fulfills any criteria required for the course in question.

- Ritme reserves the right to cancel the training session up to 14 days before the beginning of the training course if there were not enough participants to confirm the sessions, and at any time in case of force majeure. Ritme would then offer participants to register for the next session or refund the fees in full.

- Ritme is not liable for any cost that the participant might have engaged to attend the course.

## 10.  CONTACTS

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