



DP-CHUV "QUANTITATIVE APPROACHES IN PSYCHIATRY" – Course option for doctoral candidates

CHUV-Department of Psychiatry

Coordinator: PhD Setareh Ranjbar

The aim of this seminar is to provide ongoing training and skills development for people involved or interested in psychiatric research. Designed for both researchers and clinicians with a foundational knowledge of statistics (basic descriptive statistics, hypothesis testing), the program provides a dynamic and applied approach to statistical methods in mental health research.

The curriculum is participant-focused, adapting to the needs and interests of attendees, and spans a wide range of essential topics: from data management and study design to advanced analytical methods such as longitudinal modelling, machine learning. The objectives are to equip participants with additional analytical tools, to facilitate communication between researchers and statisticians, and to make it easier to interpret data and results.

Speakers : Setareh, Ranjbar, Sandra Vieira, Enrique Castelao, Marie-Pierre Strippoli, Fulvio Magara

Schedule: 12 times a year (dates can be found on the table below), Mondays from 12:00 to 14:00 p.m

Attendance/Evaluation: LNDS PhD students must attend at least **10 of the 12 seminars** to be eligible to receive **1 ECTS credit**. In addition, three multiple-choice question (MCQ) assessments will be conducted during the practical sessions at the end of **Modules 2, 3, and 4**. Students who achieve a minimum score of **60% in each of the three assessments** will be awarded an **additional 0.5 ECTS credit**. Course certificates will be sent to email address provided at registration on Moodle.

Language: English

Modality: Videoconference via Teams (links can be found on the table below and on Moodle)

Registration: Via Moodle >>> <https://moodle.unil.ch/course/view.php?id=35407> >>> self-enrollment

For more information contact Setareh.ranjbar@chuv.ch.

Link to participate: The link to each course can be found on the table below.

Possible to register for all or selected number of individual seminars.

Schedule for 2026-27

No. Seminaire	titre de seminaire	intervenant.e.s	Date	Horaire
1	Data & Data Management (Overview)	Enrique Castelao ; Marie-Pierre Strippoli	28.09.2026	12:00-14:00
2	Fundamentals of Experimental Design	Fulvio Magara	05.10.2026	12:00-14:00
3	Fundamentals of ANOVA and Regression	Setareh Ranjbar	26.10.2026	12:00-14:00
3	Data Visualisation I (Exploratory)	Setareh Ranjbar	02.11.2026	12:00-14:00
4	Data Visualisation II (Explanatory)	Setareh Ranjbar	09.11.2026	12:00-14:00
5	Data Visualisation III (Advance + MCQ)	Setareh Ranjbar	16.11.2026	12:00-14:00
6	Longitudinal Analysis I (Design and modelling)	Setareh Ranjbar	30.11.2026	12:00-14:00
7	Longitudinal Analysis II (Design and modelling)	Setareh Ranjbar	07.12.2026	12:00-14:00
8	Longitudinal Analysis III (Practical Exercise + MCQ)	Setareh Ranjbar	14.12.2026	12:00-14:00
9	Machine Learning I (Theory and methods)	Sandra Vieira	11.01.2027	12:00-14:00
10	Machine Learning II (Theory and methods)	Sandra Vieira	18.01.2027	12:00-14:00
11	Machine Learning III (Practical Exercise + MCQ)	Sandra Vieira	25.01.2027	12:00-14:00

Course Modules :

	Module 1: Fundamentals
	Module 2: Data visualization
	Module 3: Longitudinal data analysis
	Module 4: Machine learning