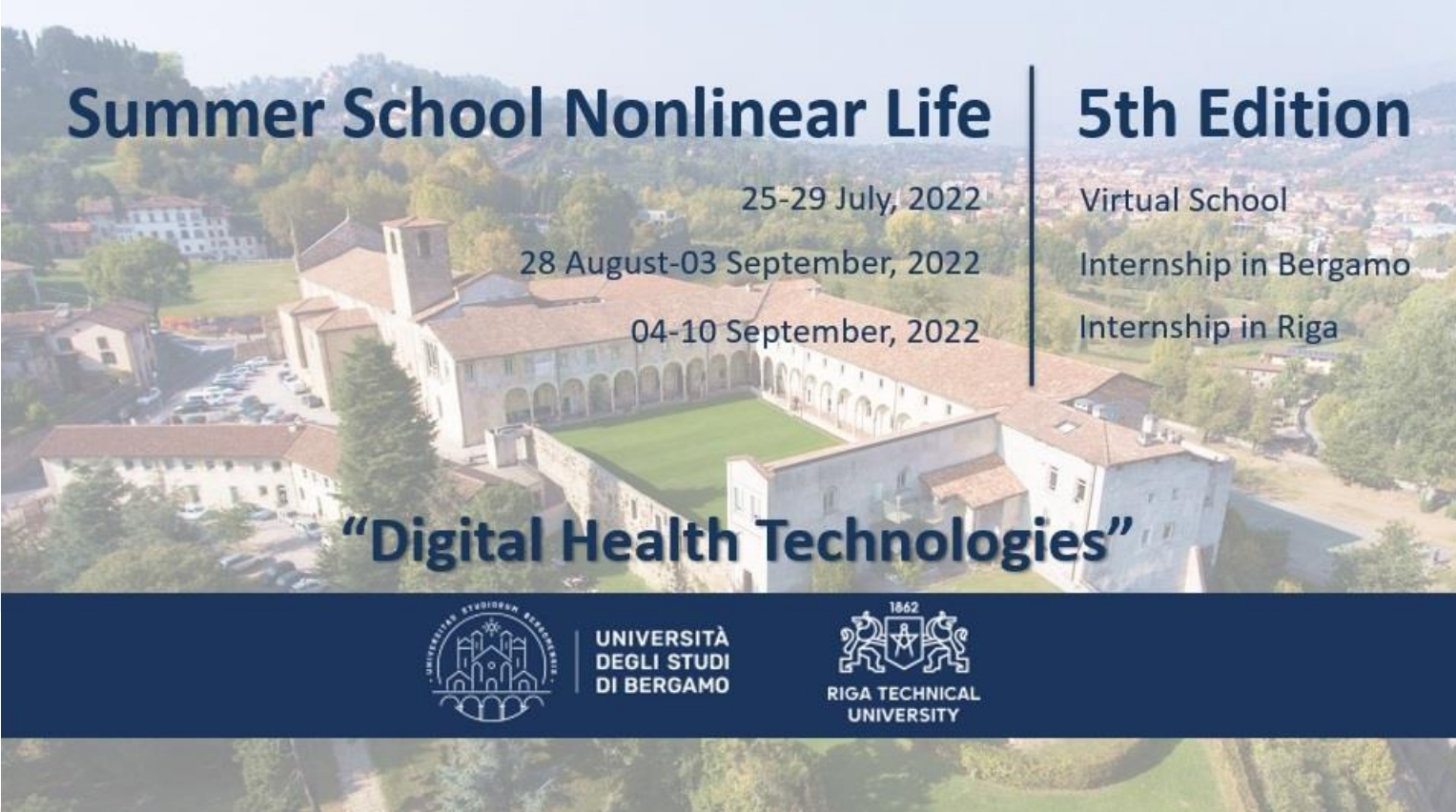


Summer school «Nonlinear Life»




Summer School Nonlinear Life


25-29 July, 2022
28 August-03 September, 2022
04-10 September, 2022

5th Edition

Virtual School
Internship in Bergamo
Internship in Riga

“Digital Health Technologies”

 UNIVERSITÀ
DEGLI STUDI
DI BERGAMO

 1862
RIGA TECHNICAL
UNIVERSITY

The Virtual school (25-29 July, 2022). 3 ECTS

- **Delivered both by academics and practitioners in the health technology industry, will focus on two macro-themes:**
 - New electronic devices for health, wearable sensors and IoT systems for diagnosis and care
 - New digital solutions for 3D acquisition, modelling and simulation of the human body to improve patient's assessment and rehabilitation

Internship at the University of Bergamo (28 August-03 September, 2022)

20 available places. 3 ECTS

- Characterization of wearable sensors developed for monitoring environmental and physiological parameters (Supervisors: Prof. Gianluca Traversi, Dr. Elisa Riceputi)
- Characterization of stimuli-responsive materials for healthcare (Supervisors: Prof. Gianluca Traversi, Prof. Giuseppe Rosace)
- Use of Motion Capture devices both marker-based and marker-less to track body movement. Elaboration and analyses of the data gathered to assess actor's performance while doing specific movements and/or evaluation of the error of acquisition (Supervisors: Prof. Daniele Regazzoni, Dr. Andrea Vitali)

Internship at the Riga Technical University (04-10 September, 2022)

20 available places. 3 ECTS

- Nanodosimetry: research to identify application of nanobjects for radiation dosimetry
(Supervisor: Prof. Yuri Dekhtyar)
- Near-threshold electron spectroscopy application to characterize electrical charge of the nanoobject surface
(Supervisor: Prof. Yuri Dekhtyar)
- Machine Learning for medical/health applications
(Supervisor: Chief Researcher Katrina Boločko)
- Textile sensors for human motion detection
(Supervisor: Prof. Alexei Katashev)
- Biochips for cell microfluidic
(Supervisor: Chief Researcher Uldis Berzins)

Participation fees

Module(s)	Participation Fee	Application Deadline
Virtual School	100 euro	15 July, 2022
Virtual School + Internship in Bergamo	250 euro	01 July, 2022
Virtual School + Internship in Riga	250 euro	01 July, 2022
Virtual School + Internship in Bergamo + Internship in Riga	400 euro	01 July, 2022

Supported by Latvian and Italian Ambassadors



April 7, 2022, Bergamo.
Patronage Agreement
signed for the summer
school “Nonlinear Life” by
the Rectors of Riga
Technical University and
University of Bergamo and
the Ambassadors of Italy in
Latvia and Latvia in Italy

www.unibg.it/nonlinearlife
nonlinearlife@unibg.it

