

# summerschool UTRECHT

Utrecht Geometry Centre, Mathematical Institute  
Utrecht University, The Netherlands

## Summer School on Geometry

14 - 25 August 2023

The Summer School on Geometry is a two-week programme featuring ten one-day mini-courses on various topics within Geometry. This is understood in a broad sense: the courses will touch on algebraic geometry, differential geometry, and algebraic topology, and will highlight interactions with other fields like number theory, group theory and mathematical physics.

The Summer School on Geometry is aimed at students that have completed at least two years of undergraduate studies in Mathematics and therefore have a basic background on algebra, analysis and topology. Physics students with this basic knowledge of mathematics are also welcome to apply.

### Programme:

- 14/8 - Dr. Gijs Heuts/Dr. Lennart Meier: Fixed point theorems and their applications
- 15/8 - Dr. Fabian Ziltener: Some highlights of symplectic geometry
- 16/8 - Dr. Niall Taggart/Dr. Guy Boyde: A topologist's time machine
- 17/8 - Dr. Álvaro del Pino Gómez: In how many ways can we prove the Whitney-Graustein theorem?
- 18/8 - Dr. Marta Pieropan: Geometry of numbers
- 21/8 - Dr. Valentijn Karemaker: Modular forms
- 22/8 - Dr. Stefano Marseglia: Discrete logarithm problem for elliptic curves over finite fields
- 23/8 - Prof. Dr. Ieke Moerdijk/Dr. Tobias Lenz: Representations of finite groups
- 24/8 - Dr. Wioletta Ruzsel: Random geometry of equilibrium phases
- 25/8 - Prof. Dr. Gunther Cornelissen: Zeta functions

What the students said...

*"I am very satisfied with the contents of the course. We have been shown a lot of topics which I previously knew nothing about, or had heard about but not actually studied. You have shown us a broad spectrum of mathematical areas that we would have probably otherwise never seen at Bachelor (or even Master?) level."*

*"It not only met but actually surpassed my best expectations. The teachers were excellent."*

<b>PERIOD</b>	<b>14-25 August 2023</b>
<b>CREDITS</b>	<b>3.0 ECTS</b>
<b>FEE</b>	<b>€ 500 : course + course materials + housing</b> <b>€ 100 : course + course materials</b>
<b>MORE INFORMATION</b>	<b><a href="http://www.utrechtsummerschool.nl/courses/science/geometry">www.utrechtsummerschool.nl/courses/science/geometry</a></b>



Universiteit Utrecht



UNIVERSITY  
OF APPLIED  
SCIENCES  
UTRECHT



university of the arts utrecht