

A photograph of a modern architectural building with a large glass facade and a green, textured exterior. In the foreground, there is a small, young tree and some greenery. The building has multiple levels and a unique, slightly curved design.

Summer school

Waves: Modeling, Analysis, and Numerics

Radboud University, Nijmegen

August 25–29, 2025

funded by 4TU.AMI and RU

Lecturers



Carlos Pérez-Arcibia



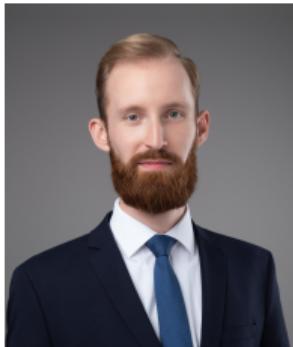
Carolina Urzúa-Torres



Vanja Nikolić



Laura Scarabosio



Julian Köllermeier



Kees Vuik

Strategic Research Initiative on Wave Phenomena (2024–)



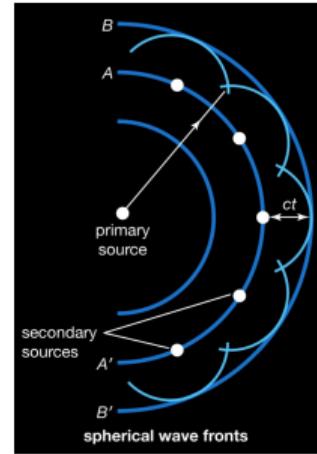
Aim: Advancing mathematical models, numerical methods, and fast algorithms for simulating various wave phenomena through collaborative research across Dutch universities

supported by **4TU.Applied Mathematics Institute** and **Radboud University**

Huygens building



Christiaan Huygens (1629–1695)



Huygens' principle: *every point on a wavefront is itself the source of spherical wavelets, and the secondary wavelets emanating from different points mutually interfere*

source: *Encyclopaedia Britannica*

Schedule of the school

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00–10:30	L3: Carlos Pérez-Arcibia	L5: Carolina Urzúa-Torres	L2: Vanja Nikolić	L4: Laura Scarabosio	L6: Kees Vuik
10:30–11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00–12:30	L1: Julian Köllermeier	L1: Julian Köllermeier	L2: Vanja Nikolić	L4: Laura Scarabosio	L6: Kees Vuik
12:30–13:30	Lunch	Lunch	Lunch	Lunch	Lunch
13:30–15:00	L3: Carlos Pérez-Arcibia	L5: Carolina Urzúa-Torres	L3: Carlos Pérez-Arcibia	L5: Carolina Urzúa-Torres	
15:00–15:30	Coffee break	Coffee break	Coffee break		
15:30–17:00	Poster session	L1: Julian Köllermeier			
17:45–19:00			<i>Social event</i>		



<https://www.math.ru.nl/wave/Schedule.htm>

Practical information

- ▶ Lunches and coffee breaks will take place here
- ▶ Wifi: eduroam, visitor access available if needed
- ▶ Materials available on GitHub:



https://github.com/scalaura/waves_summerschool

- ▶ Photos will be taken during the school

Practical information

- ▶ Social event: Wednesday at 17:45, Pannenkoekenboot



<https://nijmegen.pannenkoekenboot.nl>, Waalkade 100, 6511 XR