

# Sfide trasversali per la didattica universitaria

**TLC** Ciclo di Incontri organizzato dal Centro di Ateneo *Teaching and Learning Centre*

Martedì 17 Febbraio 2026

h. 17.00–18.30

Aula Gerace- Polo Fibonacci Università di Pisa  
Il piano ed. C



Link da remoto: Sfide trasversali - Incontro con Paula Heron | Microsoft Teams

## Designing and evaluating new approaches to instruction:

## Common challenges and different strategies across the disciplines



**Paula Heron** Department of Physics, University of Washington Seattle (US)

Registrazione via email: [segreteria.tlc@unipi.it](mailto:segreteria.tlc@unipi.it)  
L'incontro si svolgerà in lingua inglese

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Piano Lauree Scientifiche



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## Designing and evaluating new approaches to instruction: Common challenges and different strategies across the disciplines



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Results from research indicate that many students emerge from traditional courses without having developed a functional understanding of important basic concepts. These findings have motivated significant changes how we teach the sciences, mathematics, and engineering at the university level. We now recognize that students enter our classrooms with a wealth of ideas derived from their previous experiences and that those ideas have profound consequences for their subsequent learning. We also recognize that active engagement during class time is essential for restructuring their previous ideas and bringing them into alignment with expert views. Designing and evaluating new teaching strategies based on these principles is a complex process that requires the involvement of faculty in the disciplines, who combine deep subject-matter knowledge with appreciation for the educational culture of those disciplines. Examples will be used to illustrate the process of designing and evaluating instructional approaches and materials. The context will be physics but analogies can be made to other disciplines.

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