



Centro de Investigação em Matemática e Aplicações  
Departamento de Matemática  
Programa de Doutoramento em Matemática

## Seminar

Wednesday, 26th March 2025, Anf. 1, 16h00 UTC (Lisbon)

Google Meet link: <https://meet.google.com/qjm-avft-oci>

## Statistical modeling for latent variables measurement

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**Abstract:** Statistical modeling is essential in contexts where both categorical and continuous attributes are measured to describe the latent variables or constructs present in cognitive tests and survey questionnaires. This talk introduces some key methodological steps for frequentist and Bayesian approaches to data analysis models from item response theory (IRT) and diagnostic classification models (DCMs) used for evidence-based decision-making.

**Keywords:** item response theory, diagnostic classification models, latent variables, measurement.

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