SHORT CV


# Adrián Vidal Delgado

adrian.vidal@utalca.cl

adrian279vd.github.io

Google Scholar / ORCID

**PhD Candidate in Mathematics**

Institute of Mathematics · Universidad de Talca, Chile


## RESEARCH AREAS

Orthogonal polynomials

Symmetric functions

Integrable systems

Stochastic processes

## EDUCATION

**PhD in Mathematics**
Universidad de Talca, 2024–present
Candidate since March 2026. Expected completion: March 2028. Advisor: Jan Felipe van Diejen.

**M.Sc. in Mathematics**
Universidad de Talca, 2024
Advisor: Jan Felipe van Diejen.

**B.Sc. in Mathematics**
Universidad de La Habana, 2020

## ACADEMIC SERVICE

Organizing Committee, *Summer School for Undergraduates in Mathematics* (2026), Universidad de Talca.

## PUBLICATIONS

**Approximation of Askey–Wilson roots**
J. F. van Diejen, A. Soledispa Tibán, **A. Vidal**
*Constructive Approximation* (2026). DOI

**The Spectrum of the Finite Open XX Quantum Spin Chain with Transverse Magnetic Boundary Fields via Orthogonal Polynomials**
J. F. van Diejen, A. Soledispa Tibán, **A. Vidal**
*Annales Henri Poincaré* **27**(4) (2026), 1451–1495. DOI

## SELECTED PRESENTATIONS

AUGUST 2026 · COSTA RICA
**Hall–Littlewood Polynomials and Interacting Random Walks on Partitions**
CIMPA School on Combinatorial Structures in Geometry, Graphs, and Symmetry.

JUNE 2026 · SPAIN
**Biased random walks on partitions and hyperoctahedral Hall–Littlewood polynomials**
OPSF-S11 Summer School, Universidad de Alcalá.

APRIL 2026 · CHILE
**Aproximación de las raíces de los polinomios de Askey–Wilson mediante una iteración de punto fijo**
XXXVIII Jornada de Matemática de la Zona Sur, Universidad del Bío-Bío.

## TEACHING

**Lecturer · Universidad de Talca (2025)**
Mathematics for Engineering in Nutrition and Dietetics.

**Teaching Assistant · Universidad de Talca (2022–2024)**
Calculus, Linear Algebra, Probability and Statistics, and ODEs.

**Earlier teaching · Havana (2018–2022)**
Universidad de La Habana and CUJAE.