

# Matías Andrés Palumbo

*Based in Rosario, Argentina*

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## SUMMARY

Graduate from the five-year integrated Bachelor's Degree in Mathematics (*Licenciatura en Matemática*), a Master's-equivalent program offered by the National University of Rosario in Argentina. Proven track record of outstanding academic performance and participation in a number of extracurricular academic activities. Currently continuing the research carried out for my degree thesis, which includes topics from functional analysis, complex analysis and topological dynamics.

## EDUCATION

### National University of Rosario

2019 - 2024

*Five-year integrated Bachelor's Degree in Mathematics (Licenciatura en Matemática)*

*Rosario, Argentina*

- Finished degree with an academic average of 9.73 out of 10 (equivalent to 4.0 GPA).
- Degree thesis: "The Dynamics of Linear Operators in the Hardy Space of Dirichlet Series". Topics covered include functional analysis, complex analysis and topological dynamics.

## WORK EXPERIENCE

### Research Assistant

Sep. 2023 – Present

*National University of Rosario*

*Rosario, Argentina*

- Participant in the [CIFASIS-CONICET](#) (National Scientific and Technical Research Council) research project titled "Dynamics of Linear Operators and Operator Semigroups".

### Junior Engineer

Mar. 2022 – Present

*Paddle*

*Rosario, Argentina*

- Support Engineer in charge of troubleshooting customer issues and fixing bugs within the company's codebase.

### Teaching Assistant

Mar. 2023 – Aug. 2023

*National University of Rosario*

*Rosario, Argentina*

- Assistantship carried out in the Mathematical Analysis I course organized by the Department of Mathematics in the Faculty of Exact Sciences, Engineering and Surveying (National University of Rosario).

### Test Engineer

Apr. 2021 – Jan. 2022

*RWS Language Services & Technology*

*Rosario, Argentina*

- Member of the Testing Data team, in charge of compiling and delivering data packages for clients' software testing efforts.

### Volunteer at NGO

Feb. 2019 – Nov. 2021

*Asociación Conciencia*

*Rosario, Argentina*

- Asociación Conciencia is an NGO aimed at heightening high school students' social awareness and civic participation through projects such as Mock UN.
- Member of the General Coordination team in charge of event logistics. Member of the administrative committee within the General Coordination team in 2020.

## CERTIFICATIONS

### TOEFL iBT English Exam

Dec. 2023

*C1 Level (score: 113/120)*

### Cambridge Certificate of Proficiency in English (CPE)

Nov. 2018

*C2 Level (Grade A)*

## PUBLICATIONS

(*In preparation*) **Hypercyclic operators on Hardy spaces of Dirichlet series** (2024). Cardeccia R., Muro S., Palumbo M.

- Current version available in [my personal webpage](#).

## TECHNICAL SKILLS

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- Advanced knowledge of the **Python** programming language.
  - Experience using most common scientific libraries (numpy, matplotlib, scikit-learn) as well as the Manim library (for rendering programmatic mathematical animations) and the Django framework.
  - Experience working with large-scale codebases and knowledge of common software engineering design patterns.
- 120-hour Computer Science college courses taken: **Python & C Programming** and **Data Structures & Algorithms**.
- Advanced knowledge of the **LaTeX** typesetting language.
- Experience working with **Octave**, **Maxima** and **SageMath**.

## AWARDS & SCHOLARSHIPS

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### EVC-CIN Scholarship

Sep. 2023 - Aug. 2024

*Awarded by the National Interuniversity Council of Argentina*

- Research scholarship for participation in the “Dynamics of Linear Operators and Operator Semigroups” CIFASIS-CONICET research project.

### First Prize in National Monograph Contest

Sep. 2022

*Awarded by the Mathematical Union of Argentina*

- First prize as author of “Transcendental Number Theory”, a survey of the main results in transcendental number theory with a focus on proofs involving analytical number theory.

### Friends of Fulbright Scholarship

Jan. 2022 - Mar. 2022

*Awarded by Fulbright Association*

- Seven-week academic exchange program in the University of Arkansas, United States.

## GIVEN SCIENTIFIC PRESENTATIONS & WORKSHOPS

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### Dynamics of Multiplication Operators in Hardy Spaces of Dirichlet Series

Sep. 2024

*At the Annual Conference of the Mathematical Union of Argentina (in Catamarca, Argentina)*

- Presented a characterization of hypercyclic and chaotic adjoint multiplication operators acting on Hardy spaces  $\mathcal{H}_p$  of Dirichlet series.

### LaTeX Workshop

Sep. 2024

*At the National University of Rosario*

- Three-hour workshop on intermediate-to-advanced LaTeX techniques. Workshop contents available in [Github repository](#).

### Transcendental Number Theory

Sep. 2022

*At the Annual Conference of the Mathematical Union of Argentina (in Neuquén, Argentina)*

- Presented a survey of the main results in transcendental number theory. Contents adapted from the monograph of my authorship submitted to the National Monograph Contest organized by the Mathematical Union of Argentina.

## ATTENDED FORUMS & CONFERENCES

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### Annual Conference of the Mathematical Union of Argentina

Sep. 2024

*National University of Catamarca, Catamarca, Argentina*

### Escuela de Ciencias Informáticas

Jul. 2024

*University of Buenos Aires*

- Two 15-hour courses taken: *Modeling and Analysis of Complex Systems* and *Large Language Models*.

### 10th Heidelberg Laureate Forum (HLF)

Sep. 2023

*Heidelberg, Germany*

- The HLF is a selective networking conference where 200 young researchers in mathematics and computer science across the world spend a week interacting with Abel Prize and Fields Medal laureates, among other award recipients.

### IX Congress in Applied, Computational and Industrial Mathematics

May. 2023

*National University of The Litoral, Santa Fe, Argentina*

- 6-hour course taken: *Statistical Machine Learning*.

### Annual Conference of the Mathematical Union of Argentina

Sep. 2022

*National University of Comahue, Neuquén, Argentina*