## Personal Details

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Languages Spanish (native), English (advanced), Portuguese (advanced), German (intermediate)

# Education

#### Degrees

- 2020–2024 **PhD student**, Universität Münster, Germany, Advisor: Prof. Ralf Schindler. Expected: September 2024. Doctoral position (75 % position, salary level E13, TV-L funded by Cluster of Excellence
- Münster + 25 % position given by Ada Lovelace Fellowship).
  2019–2020 PhD student, National University of Córdoba, Argentina. CONICET Fellowship. Discontinued to be able to study abroad.
- 2013–2018 Licenciada en Matemática, (Bachelor+Master equivalent, 5 years program), National University of Córdoba, Argentina. GPA: 9.88/10. Thesis: Hyperbolic plane geometry. Advisors: Juan Pablo Rossetti (National University of Córdoba) and Peter Doyle (Dartmouth College).
- 2015–2018 **Profesora de Matemática**, (*Teacher of Mathematics, Bachelor's degre, 4 years program*), National University of Córdoba, Argentina. GPA: 9.57/10.

#### **Complementary Activities**

- Sept 2022 Research stay, collaboration with Prof. Asaf Karagila, Leeds, UK.
- 2019 and Summer Program, course "Combinatorics I" (2019) and "Topics of Singularity
  2017 Theory: Combinatorics, Topology and Algebra" (2017), Instituto de Matemática
  Pura e Aplicada (IMPA), Río de Janeiro, Brazil.
  Grades: A

# Awards and Honors

- 2018 Honorable Mention in the Competencia Interuniversitaria Matemática Argentina (CIMA), CIMA is a Mathematical Olympiad for undergraduates. Team with M. Hunicken
- 2017 **Second best GPA**, out of all fourth-year students in the fields of Math, Physics, Computer Science and Astronomy at the National University of Córdoba.
- 2017 Excellence Award Luis Pasteur. Monetary award given by Obra Social Luis Pasteur to the 20 best GPAs that entered the national contest.
- 2016, 2015 **First place in the CIMA**. Team with L. Ferroni
  - 2013 Honorable mention and "Most original solution" in the CIMA. Team with L. Ferroni
  - 2012 Honorable Mention in the 53rd International Mathematical Olympiad (IMO).

## List of publications

- A. FATALINI, Partitions of  $\mathbb{R}^3$  into unit circles with no well-ordering of the reals, in preparation.
- A. FATALINI AND R. SCHINDLER, *Transcendence degree of the reals over certain set-theoretical subfields*, in preparation.

## **Conferences and Seminars**

#### Conferences

- 2024 Invited speaker, 120 Years of Choice, Leeds, UK.
- 2024 Attendee, Determinacy, Inner Models, and Forcing Axioms, Vienna, Austria.
- 2024 Poster presenter, Young Set Theory Workshop, Budapest, Hungary.
- 2023 Attendee, Perspectives in Set Theory, Warsaw, Poland.
- 2023 Speaker and poster presenter, *PhDs in Logic XIV*, Granada, Spain.
- 2023 Local organizer, Young Set Theory Workshop, Münster, Germany.
- 2023 Speaker, Winter school: Section set theory and topology, Štěkeň, Czech Republic.
- 2022 Speaker, Set Theory in the UK, Leeds, UK.
- 2022 Attendee, CHEESE Workshop (Choiceless Elementary Embeddings of Sets), Leeds, UK.
- 2022 Attendee, European Set Theory Conference 2022, Turin, Italy.
- 2022 **Speaker**, 5th Münster conference on inner model theory, Münster, Germany.
- 2022 **Speaker**, *Winter school: Section set theory and topology*, Hejnice, Czech Republic.
- 2021 Attendee, XVI International Luminy Workshop in Set Theory, CIRM, Marseille, France.
- 2021 Attendee (online), *RIMS Workshop "Recent Developments in Set Theory of the Reals"*, Kyoto University, Japan.
- 2015–2020 **Attendee**, of the six annual meetings of the Argentinian Mathematical Union that took place in those years, Argentina.

#### Seminars

- 2023 Organizer, of the PhD Seminar of Set Theory, Universität Münster.
- 2022 **Organizer**, of the Seminar of graduate students, Universität Münster.
- 2020 Organizer, of the Seminar of graduate students, National University of Córdoba.
- 2020 **Speaker (online)**, "*The Continuum Hypothesis*", on the Seminar of graduate students, National University of Chile.
- 2016-2023 **Speaker**, on the topics "Euclides vs Cantor"(2023), "Forcing paradoxical sets"(2021) "Combinatorics: Ramsey theory and random graphs"(2019), "Hyperbolic plane geometry: area of polygons"(2018), "The art of solving math problems" (2016), Seminar of graduate students, National University of Córdoba.

## Teaching Experience

- 2017–2019 **Teacher in a Math olympiad workshop**. Workshop at a school, destined to primary and high school students who want to train for mathematical olympiads.
- 2016–2018, Teaching Assistant, at National University of Córdoba.
  - 2020 Hired by the Math Department.

## Institutional Activities

- 2023 Member, of the Equal Opportunity Committee, Universität Münster.
- 2021-2022 **Mentor**, as part of the MINT mentorship program for women master students, Universität Münster.
- 2017–2019 **Organizer**, of different institutional events of the Math Department, National University of Córdoba.
- 2015-2018 **Representative of undergraduate Math students**, *in the Mathematics Council*, National University of Córdoba.

#### Others

- 2017 **Collaborator**, with the (partial) translation from English to Spanish of the book "A singular mathematical Promenade" by Étienne Ghys, IMPA, Rio de Janeiro.
- 2013-2017 **Student grant**, *thanks to Retama Foundation*. Retama is a private foundation that awards scholarships to outstanding high school students who have to move to another city for university studies.

Argentinian Mathematical Olympiad (OMA)

- 2019 Member of the jury in the national contest.
- 2018, 2019 Member of the jury in several regional contests.
- 2015, 2018, Member of the jury of the national contest "Mateclubes".

2019 Mateclubes is an Argentinian Mathematical Olympiad organized by teams.

- 2011–2019 **Collaborator**, *of the Argentinian Mathematical Olympiad Foundation*, in regional, national and international contests such as:.
  - Southern Cone Olympiad 2016
  - Ibero-American Olympiad 2017
  - Río de La Plata Olympiad 2018 and 2019