

Azul Lihuen Fatalini

Personal Details

Birth 28th of February, 1995 | Tucumán, Argentina
Languages Spanish (native), English (advanced), Portuguese (intermediate), German (intermediate)
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Education

Degrees

- 2020–Present **PhD student**, Universität Münster, Advisor: Prof. Ralf Schindler.
Doctoral position (75 % position, salary level E13, TV-L funded by CLuster of Excellence Münster + 25 % position given by Ada Lovelace Fellowship).
- 2013–2018 **Licenciada en Matemática**, (*Bachelor+Master equivalent, 5 years program*), Universidad Nacional de Córdoba, Argentina.
GPA: 9.88/10.
Thesis: Hyperbolic plane geometry. Advisors: Juan Pablo Rossetti (Universidad Nacional de Córdoba) and Peter Doyle (Dartmouth College).
- 2015–2018 **Profesora de Matemática**, (*Teacher of Mathematics, Bachelor's degree, 4 years program*), Universidad Nacional de Córdoba, Argentina.
GPA: 9.57/10.

Complementary Education

- 2019 and 2017 **Summer Program**, course “Combinatorics I”(2019) and ‘Topics of Singularity 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 in Universidad Nacional de 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).**

Conferences and Seminars

Conferences

- 2022 **Speaker**, “Partitions of \mathbb{R}^3 in unit circles and the Axiom of choice”, 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**, “Partitions of \mathbb{R}^3 in unit circles and the Axiom of choice”, 5th Münster conference on inner model theory, Münster, Germany.
- 2022 **Speaker**, “Partitions of \mathbb{R}^3 in unit circles and the Axiom of choice”, Winter school: Section set theory and topology, Hejnice, Czech Republic.
- 2021 **Attendee**, XVI International Luminy Workshop in Set Theory, CIRM, Marseille.
- 2021 **Attendee (online)**, RIMS Workshop “Recent Developments in Set Theory of the Reals”.
- 2015–2020 **Attendee**, of the six Argentinian Mathematical Union annual meetings that took place in those years.

Seminars

- 2022 **Speaker**, “Paradoxical sets and the Axiom of Choice”, on the Ada Lovelace seminar, Universität Münster.
- 2022 **Organizer**, of the Seminar of graduate students, Universität Münster.
- 2021 **Speaker**, “Forcing a Mazurkiewicz set”, on the Oberseminar Mengenlehre, Universität Münster.
- 2020 **Organizer**, of the Seminar of graduate students, Universidad Nacional de Córdoba.
- 2020 **Speaker**, “The Continuum Hypothesis”, on the Seminar of graduate students, Universidad Nacional de Chile.
- 2016–2021 **Speaker**, on the topics “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, Universidad Nacional de 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 Universidad Nacional de Córdoba.
- 2020 Hired by the Math Department.

Languages

English language exam

- 2019 **Toefl**, *Score: 103/120.*
Reading (30/30), Listening (25/30), Speaking (22/30), Writing (26/30).
- 2018 **Toefl**, *Score: 105/120.*
Reading (28/30), Listening (30/30), Speaking (20/30), Writing (27/30).

Courses

- 2022 **German B2**, *enrolled.*
Sprachenzentrum, Universität Münster.
- 2014–2015 **Portuguese**, *Two basic courses.*
CEPE Institute, Córdoba, Argentina.
- 2007–2009 **English**, *Four courses, basic to advance level.*
Instituto de Lenguas Extranjeras (ILE), Tucumán, Argentina.

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, 2019 **Member of the jury of the national contest “Mateclubes”.**
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

Institutional Activities

- 2021–2022 **Mentor**, *as part of the MINT female mentorship program for master students, Universität Münster.*
- 2017, 2018 and 2019 **Organizer**, *of institutional events of the Math Department, Universidad Nacional de Córdoba.*
- Mathematics Research Groups Day (2017, 2018)
 - May 12th, Celebrating Women in Mathematics (2019)
- 2015–2018 **Representative of undergraduate Math students**, *in the Mathematics Council, Universidad Nacional de Córdoba.*