

# Magalí Giaroli

✉ [mpgiaroli@gmail.com](mailto:mpgiaroli@gmail.com)

📍 Argentina

🌐 [mgiaroli.github.io](https://mgiaroli.github.io)

Mathematician with several years of experience in academic research and university teaching. Currently interested in data science and machine learning, looking to apply analytical skills to solve real-world data problems.

## Education

**Universidad de Buenos Aires**

*Phd., Mathematical Sciences*

*Licenciatura, Mathematical Sciences*

*Bs. As., Argentina*

*Sep 2019*

*Mar 2014*

## Experience

### Research

**IMAS - CONICET**

*Doctoral fellow*

*Bs. As., Argentina*

*2014–2019*

- Researched in algebraic geometry applied to biology. Developed algebraic and geometric tools for the study of multistationarity in biochemical reaction networks and positive solutions of sparse polynomial systems.
- Authored 4 scientific articles published in high impact peer-reviewed journals. Work done in close collaboration with senior and young researchers. 🎓
- Presented results in national and international conferences. Attended several international workshops and congress.

### Teaching

**Dto. de Ciencias Exactas, CBC, UBA**

*Graduate teaching assistant (from 2016), Undergraduate teaching assistant*

*Bs. As., Argentina*

*2011–2020*

**Dto. de Matemática, FCEN, UBA**

*Graduate teaching assistant (from 2015), Undergraduate teaching assistant*

*Bs. As., Argentina*

*2011–2019*

- Taught undergraduate courses of 30-100 students, giving lectures and consultation classes.
- Planned lectures and practice exercise guides. Designed mid-term exam problems and graded exams.

## Skills

**Programming:** Python, Octave, SQL

**Data Science:** Pandas, Numpy, Scikit-learn, Data visualization: Matplotlib, Seaborn

**Others:** Latex, Excel, Streamlit, Git, OS: Linux, Windows

## Projects

**News classifier:** Machine learning classifier of argentine news by category. Includes the collection of news, text cleaning, data analysis and data visualization, training of distinct supervised classification models, model selection (+85% accuracy) and implementation of an interactive web application in streamlit. 🔄

**Board games recommender:** Content-based recommender for Board Game Arena games. Includes data collection, exploratory data analysis, creation of the recommender, and its implementation in streamlit. 🔄

## Volunteer Experience

**Mateclubes - Olimpiada Matemática Argentina**

*Member of the Olympic Committee*

Includes elaboration of tests for all instances and act as a jury. Co-authored two competition problem books.

*Argentina*

*2008–present*

**Multicultural Center Gloria**

*Language guide*

Spanish guide in the Language Café; in 2021, also guide and organizer of the Spanish Learning Group.

*Jyväskylä, Finland*

*2020–2021*

## Languages

• **Spanish:** Native

• **English:** Fluent

• **Finnish:** Pre Intermediate