



# Alexander Romero Vinogradov

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## Data Scientist & Mathematician

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### About me

Aspiring Data Scientist trained in Math and Statistics at the University of Seville. Interests include:

- Data Engineering, Database Management
- Data Science, Machine Learning
- Mathematical Optimization
- OSINT and Cybersecurity

### Alexander: a portrait



- Mathematician
- ◻ Statistician
- Programmer
- ✿ Thinker
- ♣ Artist
- \* Leader

### Passions & hobbies

- ✦ Music & Piano (Professional training at Conservatory of Osuna)
- ✦ Political and economic dissemination with the libertarian leaning "Students for Liberty" activist group

- ✦ UNIX systems and free software enthusiast; generally eager to broaden my understanding of my own computing environment
- ✦ Ex-member of a 70s prog-rock tribute act; musical production amateur

### Training, Experience

#### Academic Training

- Double Degree in Math and Statistics  
**University of Seville (2018-2023)**
- International Baccalaureate + Spanish High School Diploma  
**IES Martínez Montañés, Seville (2015-2017)**

#### Work Experience

- Internship at Guadaltel S.A. SQL databases administration and ETL tasks  
**Guadaltel S.A., Seville (2023)**
- Freelance Work  
Development of optimizer software for diverse ends (industrial, electoral prediction)  
**Remote work (2023-)**

\* Complete listing of my work experience and academic training in the following page

### Main Skills Summary

**Languages:** Spanish (nat.) | English (C1) | Russian

**Programming:** [Scale from (\*) to (\*\*\*\*\*)]

(\*\*\*\*): Python, R, Matlab

(\*\*\*): Haskell, Ruby, Shellscripting, AMPL

(\*\*): Javascript, PHP

**Interested in:** C, Lisp, COBOL, improving my current skills

#### Other IT Skills:

- SQL (experience with PostgreSQL, MariaDB) and NoSQL (MongoDB) database administration
- Experience with several markup languages (html, Markdown, Latex)
- Basics of networking and system administration
- Programming with Symbolic Languages (Mathematica, Singular, Maxima, Isabelle...)
- Basic knowledge of the Pentaho Data Integration (formerly "Kettle") ETL tool

# Detailed listing of experience, achievements and honours

## Academic Training

- Degrees in Mathematics and Statistics. University of Seville, 2018-2023
- International Baccalaureate + Spanish Highschool Diploma, Engineering Branch. IES Martínez Montañés (Seville), 2015-2017
- Piano, Professional Diploma. Professional Music Conservatory of Osuna, 2012-2018

## Work Experience

- Internship at Guadaltel S.A.; PostgreSQL databases administration and ETL tasks. Guadaltel S.A., Seville, 2023
- Freelance work; development of optimizer software for diverse ends (electoral prediction, routing optimization for an industrial nailer). Remote work, 2023-Present

## Publications

- Romero Vinogradov, Alexander, under the direction of Andrés Cerdón Franco (2023). ``Lógica Epistémica Dinámica: Propuestas para enfoques probabilísticos y aplicaciones'' (Dynamic Epistemic Logic: Approaches in Probability and Applications). (Monograph)

## Awards as a student

- 3rd award in the province-level phase of the Spanish Physics Olympics. Seville, 2017

## Merits

- Participation in the ESTALMAT project for the early development of mathematical talent in adolescents. Seville, 2012-2016
- Participation in the ``Formulo de Integreco'' exchange program, mathematics module. Seville, 2014; Sochi (Russia), 2015

## Other Awards and Honours

- 2nd place in the Villa de Marchena, Memorial Rosario Martín literary contest Marchena (Seville), 2014 & 2016 editions