

# Fernando Bellido Pazos

Email: fbellidopazos@gmail.com

Mobile: +34 638907402

Web: fbpazos.github.io/

LinkedIn: linkedin.com/in/fbellidopazos/

Github: github.com/fbpazos

## WHO AM I?

Enthusiastic, highly self-motivated, reliable, responsible, and hard-working person with an ample range of interpersonal skills. Able to understand and communicate emotionally alongside being able to work on multidisciplinary teams, and able to take critics to improve myself.

## EDUCATION

- Universidad Carlos III de Madrid** Madrid, Spain  
• *MSc in Applied & Computational Mathematics (English)* September 2022 - June 2023  
**Average Grade:** 8/10 with 1 Honorable Mention on Advanced Methods in Analysis  
**Courses:** Biological Inspired Artificial Intelligence, Perspectives on Applied & Computational Mathematics, Computational Algebra, Computational techniques for differential equations, Special functions & Orthogonal Polynomials, Advanced Methods for non-linear differential equations and Biological & Socioeconomic Systems, Stochastic Equations for Finance and Biology
- Universidad Politécnica de Madrid** Madrid, Spain  
• *BSc in Mathematics & Information Technology (Spanish)* September 2018 - June 2022  
**Average Grade:** 9.4/10 with 14 Honorable Mentions  
**Courses:** Databases, Operative Systems, Data Structures, Data Analytics, Artificial Intelligence, Programming (Object Oriented, imperative, functional and logic), Functional Analysis, Applied & Computational Topology and Pure Mathematics
- Trinity College San Sebastián de los Reyes** Madrid, Spain  
• *Baccalaureate in Technological Sciences (Spanish)* September 2016 - June 2018  
**Grade:** 13.46/14 with 5 Honorable Mentions  
**Courses:** Mathematics, Physics, Technical Drawing, Information Technology, Industrial Engineering and Psychology

## SKILLS SUMMARY

- Languages:** English(C1), Python, Java, SQL, Bash, Matlab
- Frameworks:** Flask, FastAPI, SQLAlchemy, Numpy, Sympy, Pandas, Matplotlib, Plotly, Bqplot, PyTest
- Tools:** Docker, Git, GitHub Actions, MariaDB, MySQL, SQLite, NoSQL, Jupyter, Office 365
- Platforms:** Windows, Linux, Web, Raspberry, Arduino, Heroku
- Interpersonal Skills:** Leadership, Public Speaking, Critical Thinking, High Self-Motivation, Reliable, Violinist

## EXPERIENCE

- Ontology Engineering Group** Madrid, Spain  
• *Data Analyst and Developer* September 2021 - January 2022
  - Description:** In charge of analyzing academic documents on institutional repositories and developed a system for generating knowledge graphs and queries to answer questions related to Open Science values.
  - Technologies used:** Python, Pandas, SPARQL, RDF, MorphKGC
- Savestars Consulting** Madrid, Spain  
• *Developer* Summer of 2021
  - Description:** Developed a python system that can obtain images from NASA's VNP46A2 satellite in order to process them and apply a mask of a given region of the peninsula in order to give feedback to those regions on how much light pollution there is within that specific region.
  - Technologies used:** Python, GDAL, Matplotlib, Numpy
- Open Summer of Code** Madrid, Spain  
• *Developer* Summer of 2021
  - Description:** Working on a multidisciplinary team with the objective to help bring a brighter future to the 2030 Agenda. Developing a Web-App that analyzes and evaluates - objectively - tabular data from a user-selected data set extracted from open data portals (such as datos.Gob.es).
  - Technologies used:** Python, SPARQL, FastAPI

## PROJECTS

- The Sturm-Liouville problem and models based on differential equations in the field of acoustics(2022):** Study of the Sturm-Liouville theory and modeling of stringed instruments to answer questions like: Why does a violin and a piano sound different? Is there any relationship between mathematics and music? Tech: Python, Latex, Matplotlib, Plotly, Sympy, NumPy, Jupyter, Differential Equations, Functional Analysis.
- S.I.R. Modelling in Python (2021):** Research oriented, open source, Covid-19 analysis for understanding the mathematical models (Susceptible, Infected, Recovered) underneath the pandemic we have lived. Tech: Python, Jupyter
- Web-Based Portfolio (2021):** Creation and deployment of a web-based portfolio in order to reach more audience in the never ending tech evolving world. Tech: Python, Flask, Docker, SQLAlchemy, MariaDB, RaspberryPi

## HONORS AND AWARDS

- Cambridge English Advanced Certificate
- Academic Excellence Grant 2021 & 2022
- Academic Excellence Award for Representative Agents of Banco Mediolanum 2022