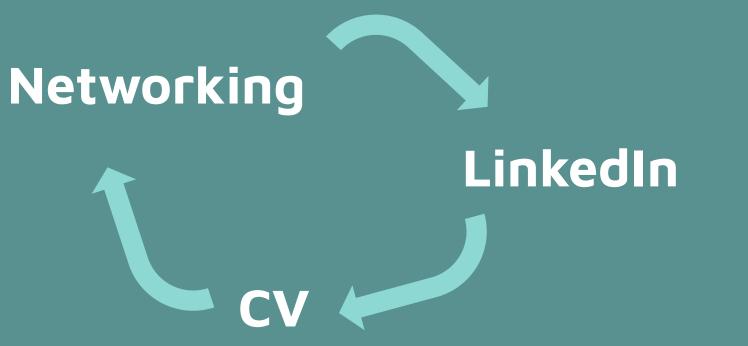
Mastering Professional Tools for Physicists

Tutorial presented @ ICPS 2024 Tbilisi (Georgia) by Manuel Porrón Álvarez (TC Spain)





Cover Letter Academic Transcript (...)



EDUCATION

ERASMUS Exchange Year Université Grenoble Alpes Grenoble, France September 2023 - June 2024 Top 5 French Universities in Shanghai Ranking 2023. Activities: Campus Création (entrepreneurial 3-month project), U-Glisse (skiing club).

Dual Bachelor Program in Physics and Mathematics Universidad de Oviedo Oviedo, Spain Expected Graduation Date: June 2025 GPA of 8.14/10 in Physics and 8.22/10 in Mathematics. 1st, 2nd and 3rd year ranking; 3rd out of 20. University Admission GPA of 13.8/4 in IEAU (Evaluación de Bachillerato para el Acceso a la Universidad). Excellence Scholarship in 2020/21. Honors in Differential and Integral Calculus (12 ECTS), Experimental Techniques (6 ECTS), and Numerical Methods (9 ECTS). Selected to represent my university in the INGENIUM University Alliance Winter School at the Munster Technological University in Cork, Ireland.

Linköping University Linköping, Sweden Study abroad summer school on Nanotechnology July 2022 Honors (GPA of 5/5).

EXPERIENCE

NASA Space Apps Spain Gijón, Spain Local Lead June 2024 – Present Coordinated and facilitated the NASA Space Apps hackathon in Gijón, part of a global initiative involving over 2400 local events across 185 countries and territories, with more than 280,000 registrations worldwide. Secured a suitable venue equipped with necessary technological resources, including internet access, electricity, and facilities for pitch competitions. Managed local suppliers for catering and other event resources, ensuring smooth logistics and adherence to budget.

Arcelor/Mittal Avilés, Spain Summer Intern June 2023 – September 2023 Mentored by Diego Carrascal, Ph.D., Senior Scientist at Arcelor/Mittal. Developed simulations of micromagnetic properties on steel. Performed analysis of magnetic properties on compositions for levitation in ultrahigh-speed trains.

NFQ Advisory, Solutions, Outsourcing Madrid, Spain Quantitative Analyst Intern May 2024 – Present Part of the Knowledge Cluster, collaborating on quantitative finance projects. Developed a financial options valuation model in Python, leveraging the Black-Scholes formula. Analyzed market volatility and its impact on option pricing.

Strategy Consulting Program, Candidate Zrive School Madrid, Spain April 2024 – June 2024 10-week intensive bootcamp for high-performing students seeking a career in management consulting.

Skiing Coach Escuela Española de Esquí y Snowboard Arropaje | U-Glisse Skiing Club San Isidro, Spain | Isère, France December 2018 - Present Instructed and coached individuals and groups of varying skill evesls, focusing on improving skiing techniques safely. Developed personalized training plans tailored to individual needs, improving skiing proficiency among clients. Demonstrated strong communication skills in delivering clear instructions and feedback, fostering a supportive learning environment.

ACTIVITIES

Grupo de Estudiantes de la Real Sociedad Española de Física (GdeE RSEF) Spain National President October 2023 – Present Managed a team of 14 members at the Executive Committee. During my time as President, the number of Local Sections increased from 3 to 8, and the number of members from 450 to 630 (+40%). Organized the National Meeting for Physics Students in Spain, a

EDUCATION

Universidad de Oviedo

Dual Bachelor Program in Physics and Mathematics

- GPA of 8.14/10 in Physics and 8.22/10 in Mathematics. 1st, 2nd and 3rd year ranking: 3rd out of 20.
- University Admission GPA of 13.8/14 in EBAU (Evaluación de Bachillerato para el Acceso a la Universidad). Excellence Scholarship in 2020/21.
- Honors in Differential and Integral Calculus (12 ECTS), Experimental Techniques (6 ECTS), and Numerical Methods (9 ECTS).
- · Selected to represent my university in the INGENIUM University Alliance Winter School at the Munster Technological University in Cork, Ireland.

Université Grenoble Alpes	Grenoble, France
ERASMUS Exchange Year	September 2023 - June 2024
 Top 5 French Universities in Shanghai Ranking 2023. 	
 Activities: Campus Création (entrepreneurial 3-month project), U-Glisse (skiing club). 	
Zrive School	Madrid, Spain
Strategy Consulting Program, Candidate	April 2024 - June 2024
 10-week intensive bootcamp for high-performing students seeking a career in management consulting. 	
Linköping University	Linköping, Sweden
Study abroad summer school on Nanotechnology	July 2022
 Honors (GPA of 5/5). 	

EXPERIENCE

NASA Space Apps Spain Local Lead Coordinated and facilitated the NASA Space Apps hackathon in Gijón, part of a global initiative involving over 2400 local events across 185 constriss and

- territories, with more than 280,000 registrations worldwide.
- Secured a suitable venue equipped with necessary technological resources, including internet access, electricity, and facilities for pitch competitions.
- Managed local suppliers for catering and other event resources, ensuring smooth logistics and adherence to budget.

NFQ Advisory, Solutions, Outsourcing

Quantitative Analyst Intern

- Part of the Knowledge Cluster, collaborating on quantitative finance projects.
- Developed a financial options valuation model in Python, leveraging the Black-Scholes formula.
- Analyzed market volatility and its impact on option pricing.

Arcelor Mittal

- uner miern
- Mentored by Diego Carrascal, Ph.D., Senior Scientist at ArcelorMittal.
 Developed simulations of micromagnetic properties on steel.
- · Performed analysis of magnetic properties on compositions for levitation in ultrahigh-speed trains.

Escuela Española de Esquí y Snowboard Arropaie | U-Glisse Skiing Club

San Isidro, Spain | Isère, France December 2018 - Present

- Instructed and coached individuals and groups of varying skill levels, focusing on improving skiing techniques safely.
- Developed personalized training plans tailored to individual needs, improving skiing proficiency among clients.
- · Demonstrated strong communication skills in delivering clear instructions and feedback, fostering a supportive learning environment.

ACTIVITIES

Skiing Coach

Grupo de Estudiantes de la Real Sociedad Española de Física (GdeE RSEF)

National President

Spain October 2023 – Present

Oviedo, Spain

Madrid, Spain

Avilés, Spain June 2023 – September 2023

May 2024 - Present

Expected Graduation Date: June 2025

- Managed a team of 14 members at the Executive Committee.
- During my time as President, the number of Local Sections increased from 3 to 8, and the number of members from 450 to 630 (+40%).
- Organized the National Meeting for Physics Students in Spain, a 4-day event for 150 students (Oviedo in 2023 and Granada in 2024). +€30k raised for each.
- Observer at PLANCKS 2024 at the Trinity College in Dublin, participant and speaker at the International Conference for Physics Students in Tbilisi, Georgia.

President and Co-Founder of the UniOvi Local Section

April 2022 - June 2023

· Founded an association for Physics students at my university, reaching 70 members in one year. Led an active team of 5 people

SKILLS & INTERESTS

LANGUAGES: Spanish (mother tongue), English (fluent, C2 level), and French (intermediate). TECHNICAL: Python, R. Excel, PowerPoint, LaTeX.

TEX. HAR. AL.: rython, R. Excel, PowerPoint, LaTeX.

INTERESTS: Innovation and entrepreneurship (Catalyst Spot at Richi Entrepreneurs Boston Immersion Program, Winner of Hunger4Innovation Madrid 2023), sales (worked at a family business), leadership, and self-consciousness (Lider.es program), cooking.

OTHER: Member and ambassador of Nova Talent, mentor for new students at my faculty, volunteer at the European Researchers' Night, semifinalist at CEO for one Month 2024 by The Adecco Group Spain.

Manuel Porrón Álvarez

Asturias, Spain • manuelporronalvarez@gmail.com • +34 637 123 553 • LinkedIn Profile

EDUCATION

Universidad de Oviedo

Dual Bachelor Program in Physics and Mathematics

- GPA of 8.14/10 in Physics and 8.22/10 in Mathematics. 1st, 2nd and 3rd year ranking: 3rd out of 20. .
- University Admission GPA of 13.8/14 in EBAU (Evaluación de Bachillerato para el Acceso a la Universidad). Excellence Scholarship in 2020/21. .
- Honors in Differential and Integral Calculus (12 ECTS), Experimental Techniques (6 ECTS), and Numerical Methods (9 ECTS).
- Selected to represent my university in the INGENIUM University Alliance Winter School at the Munster Technological University in Cork, Ireland.

Université Grenoble Alpes

ERASMUS Exchange Year

- Top 5 French Universities in Shanghai Ranking 2023.
- Activities: Campus Création (entrepreneurial 3-month project), U-Glisse (skiing club).

Zrive School

Strategy Consulting Program, Candidate

10-week intensive bootcamp for high-performing students seeking a career in management consulting.

Linköping University

Study abroad summer school on Nanotechnology

Honors (GPA of 5/5). ٠

Grenoble, France

September 2023 - June 2024

Madrid, Spain April 2024 – June 2024

> Linköping, Sweden July 2022

Oviedo, Spain

Expected Graduation Date: June 2025

EXPERIENCE

NASA Space Apps Spain

Local Lead

- Coordinated and facilitated the NASA Space Apps hackathon in Gijón, part of a global initiative involving over 2400 local events across 185 countries and territories, with more than 280,000 registrations worldwide.
- Secured a suitable venue equipped with necessary technological resources, including internet access, electricity, and facilities for pitch competitions. .
- Managed local suppliers for catering and other event resources, ensuring smooth logistics and adherence to budget. .

NFQ Advisory, Solutions, Outsourcing

Quantitative Analyst Intern

- Part of the Knowledge Cluster, collaborating on quantitative finance projects. .
- Developed a financial options valuation model in Python, leveraging the Black-Scholes formula. ٠
- Analyzed market volatility and its impact on option pricing. .

ArcelorMittal

Summer Intern

- Mentored by Diego Carrascal, Ph.D., Senior Scientist at ArcelorMittal. .
- Developed simulations of micromagnetic properties on steel. .
- Performed analysis of magnetic properties on compositions for levitation in ultrahigh-speed trains. .

Escuela Española de Esquí y Snowboard Arropaje | U-Glisse Skiing Club

Skiing Coach

- Instructed and coached individuals and groups of varying skill levels, focusing on improving skiing techniques safely.
- Developed personalized training plans tailored to individual needs, improving skiing proficiency among clients. .
- Demonstrated strong communication skills in delivering clear instructions and feedback, fostering a supportive learning environment. .

Madrid, Spain May 2024 - Present

Avilés, Spain June 2023 – September 2023

San Isidro, Spain | Isère, France

December 2018 - Present

Gijón, Spain

June 2024 - Present

ACTIVITIES

Grupo de Estudiantes de la Real Sociedad Española de Física (GdeE RSEF)

National President

- Managed a team of 14 members at the Executive Committee.
- During my time as President, the number of Local Sections increased from 3 to 8, and the number of members from 450 to 630 (+40%).
- Organized the National Meeting for Physics Students in Spain, a 4-day event for 150 students (Oviedo in 2023 and Granada in 2024). +€30k raised for each.
- Observer at PLANCKS 2024 at the Trinity College in Dublin, participant and speaker at the International Conference for Physics Students in Tbilisi, Georgia.

President and Co-Founder of the UniOvi Local Section

Founded an association for Physics students at my university, reaching 70 members in one year. Led an active team of 5 people.

SKILLS & INTERESTS

LANGUAGES: Spanish (mother tongue), English (fluent, C2 level), and French (intermediate).

TECHNICAL: Python, R, Excel, PowerPoint, LaTeX.

INTERESTS: Innovation and entrepreneurship (Catalyst Spot at Richi Entrepreneurs Boston Immersion Program, Winner of Hunger4Innovation Madrid 2023), sales (worked at a family business), leadership, and self-consciousness (Líder.es program), cooking.

OTHER: Member and ambassador of Nova Talent, mentor for new students at my faculty, volunteer at the European Researchers' Night, semifinalist at CEO for one Month 2024 by The Adecco Group Spain.

Spain October 2023 – Present

April 2022 – June 2023



Your time!

Mastering Professional Tools for Physicists

Tutorial presented @ ICPS 2024 Tbilisi (Georgia) by Manuel Porrón Álvarez (TC Spain)