

Aranxa Perez Oviedo

Bachelor's Degree in Actuarial and Data Science

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Driven actuary with expertise in catastrophe risk evaluation, exposure management, and data visualization. Successfully advanced from supporting roles to taking ownership of complex analyses, utilizing tools like **Touchstone**, **RiskLink**, **SQL**, **Python**, and **Power BI** to optimize risk assessments and support premium negotiations. Experienced in analyzing the impact of natural disasters on operations, managing asset exposures, and delivering actionable insights to enhance risk management strategies. Committed to fostering organizational resilience through innovative modeling approaches and collaborative problem-solving.

CERTIFICATIONS : Exam P – Society of Actuaries | Exam FM - Society of Actuaries (March 2025) | **MATLAB** – Signal Processing

PROFESSIONAL EXPERIENCE

Red de Carreteras de Occidente, an Abertis Company, Mexico

Catastrophe Risk Analyst

January 2023 – Present

- **Catastrophe Risk Analysis:** Evaluated the impact of natural disasters on company operations and revenue, providing actionable insights to support premium negotiations with insurance providers.
- **Sensitivity Testing:** Used **Touchstone** to simulate risk scenarios and adjust loss estimates, aiding in the negotiation of more favorable reinsurance terms as budgetary restrictions.
- **Exposure Management:** Assessed the geographic and economic exposure of company assets to catastrophic events, including during the valuation of new assets, ensuring alignment with risk appetite and insurance market expectations.
- **Portfolio and Risk Assessment:** Collaborated with insurance companies to assess coverage needs and ensure optimal protection for operational assets, utilizing data-driven insights from tools like **RiskLink**.
- **Advanced Reporting:** Built interactive Power BI dashboards to communicate risk metrics and exposure analyses, improving strategic discussions with insurers and ensuring compliance with regulatory requirements.

Ambar Insurance, Mexico

Catastrophe Modelling Associate

January 2022 – November 2023

- **Risk Evaluation:** Applied **Touchstone** to modify loss distributions based on event and exposure characteristics, incorporating regulatory requirements and custom views of risk.
- **Advanced Data Integration:** Led **SQL**, **Python**, and **VBA** integrations with **Power BI** to perform comprehensive analyses of catastrophic risks, supporting strategic decision-making.
- **Portfolio Insights:** Provided detailed insights into catastrophic risk trends and portfolio performance through automated dashboards, enhancing executive reporting and decision-making processes.

Catastrophe Modelling Intern

July 2021 – December 2021

- **Data Analysis and Reporting:** Supported the catastrophe modeling team by integrating datasets using SQL, Python, and VBA for in-depth risk analysis and streamlined reporting.
- **Process Optimization:** Enhanced VBA workflows, reducing execution times by 50% and improving efficiency in catastrophe risk evaluations.
- **KPI Monitoring:** Designed automated Power BI dashboards to monitor key performance indicators related to catastrophic events, improving visibility and operational oversight.

ACADEMIA

University of Southampton, UK

Research Student, Electronic and Computer Science

November 2023 – November 2024

- Conducted innovative use of **kernel regularization** to enhance cerebral autoregulation analysis.
- Selected to present a poster at the 13th International Meeting of the Cerebrovascular Research Network (CARNet).

Autonomous University of Guadalajara, Mexico

Bachelor's degree in actuarial and data science

July 2021-May 2025

- **4.0 GPA**
- Awarded multiple distinctions for **academic excellence**
- Data Science Project: Alumni Risk Exposure 2024

LANGUAGES

English C1 (TOEFL), **French** B2 (DELFI Certificate), **German** A2.