

Experience

Oliver Wyman

Research Associate

Jan 24 - Current

- **Delivered insights for regional leadership** on digital transformation and customer innovation growth, integrating qualitative and quantitative research to support strategy and execution.
- **Designed Python web scraping and data consolidation pipelines** to collect, clean, and structure multi-source datasets, improving data quality and accessibility.
- **Served as primary contact for coding, automation, and analytics**, streamlining workflows and reducing turnaround time by ~25%.
- **Appointed as AI Champion**, piloting machine learning and AI-driven tools to enhance efficiency and embed data science practices into daily research projects.

Researcher

Nov 21 – Dec 23

- Delivered research in diverse fields including Telecom, Finance & Risk (including **FinTech, Payments and Blockchain**), Energy, Transportation, Manufacturing and Supply Chain, among others.
- Designed research projects to proactively answer business-critical questions using both **qualitative and quantitative techniques** to address client critical questions.

Citigroup

Corporate Finance Senior Analyst

Feb 20 – Jun 21

- Managed credit analysis and portfolio for **SME and MME clients**, evaluating and authorizing loans of **MXN \$10M+**.
- Prepared comprehensive valuation analyses, including model building and scenario testing, to support risk decision-making and negotiations.
- Collaborated with **international teams** to deliver risk and portfolio analysis to committees and clients.

Risk Management Analyst

Jun 18 – Jan 20

- Focused on the development of risk analysis with the use of excel models and presentations for clients and risk committees.
- Conducted forward-looking portfolio analysis, identifying early warning signals and high-risk exposures.
- Developed cash flow and enterprise valuation models to support lending and risk monitoring.

Skills

Technical & Programming: Python (Pandas, scikit-learn, Surprise, Matplotlib), SQL, R, Tableau, Excel, PowerPoint.

Machine Learning & Analytics: Customer Segmentation (PCA, K-means), Recommender Systems (Collaborative Filtering, SVD), Neural Networks, Supervised & Unsupervised Models, Statistical Analysis (GLMs, Sampling, Time Series), A/B Testing & Experimentation.

Core Skills: Data Visualization, Consumer Insights, Business Storytelling, Communication & Presentation.

Languages: Spanish (Native), English (Fluent), Japanese (Basic).

Education

MIT Professional Education — Applied Data Science Program: Leveraging AI for Effective Decision Making

Mar 25 – Aug 25

- Gained hands-on experience in **supervised and unsupervised learning, time-series analysis, neural networks**, and **recommendation systems**.
- Developed capstone projects in:
 - **Customer Segmentation** using unsupervised learning (PCA, K-means) in Python to identify actionable consumer personas.
 - **Recommender Systems** (User-User, Item-Item, SVD) using the **Surprise library**, evaluated with RMSE, Precision, Recall, and F1-score.
- Strengthened technical proficiency in **Python** and applied **data visualization and statistical methods** to real-world datasets.

Instituto Tecnológico Autónomo de México

Jan 13 - Dec 17

B.Sc. in Economics – Finance Track

Dissertation: Analysis of Bitcoin volatility using ARCH and GARCH models

Approved: June 2018