Dr. Jose Luis Hernandez-Ramirez

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PROFILE

- Experienced **spatial analyst** with a strong background in **crime analysis**, **geospatial data management**, **urban planning**, and **project delivery for both public and private sector clients**.
- Proven expertise in applying **GIS**, **advanced spatial analysis**, and **data-driven techniques** to assess **transport systems**, **urban mobility**, and **infrastructure resilience**.
- Recognised by the **UK Home Office with a visa as a Global Talent** for research excellence in geospatial intelligence.
- Present **complex spatial data into actionable insights** for high-level stakeholders.

EXPERIENCE

•London Borough of Tower Hamlets — *London, UK*
GIS Consultant — Jun 2024 - Present

- Led **geospatial data analysis** and planning initiatives, assessing **transport infrastructure** and **mobility patterns** to support development proposals and **urban planning** decisions.
- Collaborated with GIS developers and Data Scientist teams to implement best practices for GIS data management.
- Collected, processed, and validated geographic data from diverse internal and external sources to develop an **interactive geospatial platform** to enhance transparency in public decision-making (click here).

•University College London — *London, UK*
Researcher and Postgraduate Teaching Assistant — Sept 2019 - May 2024

- Conduct complex and innovative **spatial intelligence analysis** using **networks**, **GIS**, and **statistical** techniques.
- Delivered training in **GIS, data analysis, and intelligence-led security strategies** to professionals in law enforcement and risk management.
- Engaged with **global stakeholders**, including UK and Latin American agencies, on **transport security and geospatial analytics projects**.

•Mexican National Commission for Public Security — *Mexico City, Mex*
Senior Analyst of Prospective and Evaluation for Public Security — Dec 2015 - Dec 2018

- Led the development of **geospatial security risk models**, using **spatial statistics**, **geospatial analysis**, and **predictive modelling techniques** to address criminal activities in urban and highway environments.
- Designed and implemented **Evidence Based-led policing strategies** in transport networks, improving crime prevention efforts.
- Delivered **data-driven insights** to support the development of safer public spaces and strategic planning for public and private sectors.

EDUCATION

–University College London (UCL) — *London, UK*
PhD in Security and Crime Science — Jan 2019 - Jan 2024

- * Developed a **Geospatial Intelligence Model** to analyse spatial and temporal trends in crime, focusing in **risk mitigation strategies across transport networks**.
- * Conducted advanced **spatial analyses** using **spatial analysis, geoprocessing, and spatial statistics** methods to identify vulnerabilities in **urban planning** and **transport systems**. For more information, click here.
- * Collaborated with public and private sector agencies to deliver actionable insights using **spatial analysis** for **security strategies**.

–Instituto Tecnologico Autonomo de Mexico (ITAM) — *Mexico City, Mex*
Master in Economics — Jan 2014 - Jul 2015

- * Dissertation: Applied **advanced econometrics techniques** to assess the socioeconomic impact of security policies.

–Universidad de Guanajuato (UGto) — *Guanajuato, Mex*
Bachelor in Economics — Aug 2004 - Nov 2009

- * Dissertation: **econometrics analysis** to evaluate the effectiveness of public welfare programs on social mobility.

Core Competences

- **Geospatial Intelligence** – Extensive experience in **spatial analysis, and risk assessment** for high-level decisions.
- **Technical Proficiency** – Expertise in **Python, ArcGIS Pro, ArcGIS Online, QGIS**, and **geoprocessing tools** such as **Spatial Analyst and Network Analyst**.
- **Transport Planning & Urban Mobility** – Expertise in assessing **transport infrastructure**, **urban mobility**, and **spatial planning** challenges using **UK policy frameworks**.
- **Stakeholder Engagement** – Experience working with **public sector agencies, law enforcement, and private-sector clients** in planning and security transport networks projects.

Projects & Achievements

- **Doctoral thesis**:A Geographic Intelligence Model of Criminal Groups: A study of cargo theft on Mexican Highways. Hernández Ramírez, José Luis; UCL (University College London); 2024.
- Crime concentration at micro-places in Latin America. Chainey, S. P., Pezzuchi, G., Rojas, N. O. G., Ramirez, J. L. Hernandez., Monteiro, J., 2019.
- Speaker at **Stanford University**, **ASEBP**, and **IACA** conferences.
- Trained staff from **Metropolitan Police**, **DEA**, **NYPD**, and Latin American forces.
- Awarded the **National Public Finance Award** for impactful policy research.

Professional Interests

- **Applied geospatial analysis** to support site selection and network planning, contributing to the optimisation of infrastructure expansion strategies and safer places.
- **Integrated spatial datasets** into performance assessments and location-based decision-making tools to inform business operations and strategic growth initiatives.
- **Supported data-driven site evaluations** and infrastructure planning projects, with a focus on enhancing logistical efficiency, location suitability, crime prevention and asset performance monitoring.