Roberto Javier Aguirre Guardia

AI Economics Researcher & Practitioner — Labor Markets, Digital Transformation, and AI Adoption in Emerging Economies

aguirrerjg@gmail.com | +57 317 675 0419 | Bogota, Colombia | linkedin.com/in/roberto-javier-aguirre-guadia

SUMMARY

Systems engineer with MBA and 20+ years at the intersection of technology, management, and economic transformation across Latin America. Combines practitioner experience deploying AI-augmented workflows in fintech, healthcare, and public services with empirical research on how managers adopt, resist, and adapt to AI-driven change. Founder of AI4Managers — a 500+ member LATAM community generating longitudinal observational data on AI adoption curves in mid-market organizations. Applies Python, Claude API, and multi-agent orchestration to build the quantitative tools needed to study AI's economic and labor-market implications at scale.

RESEARCH INTERESTS

- **Labor market implications of AI in Latin America:** occupational displacement, task re-composition, and wage dynamics in management-intensive roles across fintech, banking, and public services.
- **AI adoption curves in financial services:** firm-level heterogeneity in adoption rates, productivity returns, and barriers in regulated industries (pensions, payments, insurance) in emerging markets.
- **Economic models for AI-driven productivity in management:** measuring how LLM-augmented decision-making alters span of control, organizational hierarchy, and output per manager — drawing on primary data from AI4Managers community.

PROFESSIONAL EXPERIENCE

DigitalHubAssist LLC — Oct 2024 – Present

Manager, AI Engineering & Research

Lead engineering and research for a GenAI/SaaS platform serving medical professionals across LATAM. Designed and deployed multi-agent systems (conversational assistants, voice transcription, teleconsultation) in a high-sensitivity regulatory environment. Builds proprietary datasets on AI-augmented clinical workflows to assess productivity and safety outcomes — a direct empirical contribution to AI impact research.

AI4Managers — Founder & Lead Researcher — 2024 – Present

Education Practitioner / Applied Researcher

Founded and scaled a 500+ member LATAM community of managers navigating AI adoption. Generates primary observational data on how mid-market managers learn, adopt, and resist AI tools across industries including banking, logistics, and professional services. Conducts structured interviews and cohort analyses that constitute a de facto longitudinal study on managerial AI adoption in emerging economies.

NTT DATA Colombia — Apr 2021 – Oct 2024

Consulting Manager — Financial Services & Utilities

Led Colombia's largest consulting engagement for Grupo AVAL (top-4 banking group), managing concurrent technology transformation programs. Directed AI-readiness assessments and process automation initiatives impacting 10,000+ employees. Maintained lowest staff turnover on account; delivered against financial KPIs in a macro environment of accelerating digital disruption and competitive pressure from neobanks.

VASS Colombia — Nov 2015 – Apr 2021

Project Manager — Digital Transformation, Pension & Financial Sectors

Directed digitalization of Porvenir Private Pension Fund's member-facing channels — a program affecting millions of beneficiaries. Managed transition of legacy processes to digital-first workflows, generating first-hand evidence on workforce reskilling costs and productivity gains from technology adoption in a regulated savings environment.

Tecnocom Colombia / GlobalHitss — Aug 2012 – Nov 2015

Digital Transformation Leader — Public Sector & Insurance

Directed judicial branch digitalization (PMP methodology) and led e-commerce and landing-page implementations for healthcare (COLSANITAS) and insurance (CARDIF/BNP Paribas). Early practitioner of platform economics applied to public services in Colombia.

EDUCATION

Master of Business Administration (MBA)
Tecnologico de Monterrey, Mexico | 2004

B.Sc. Systems Engineering — Top Third of Class
Universidad de Lima, Peru | 1999

KEY ACHIEVEMENTS

- Recognized by *Dinero* magazine (Colombia's leading business publication) as high-impact startup in LATAM healthcare AI.
- Selected keynote speaker at CLARO technology summit on digital transformation challenges in enterprise organizations.
- Founding professor, Innovation chair — Specialization in Project Management, Universidad Sergio Arboleda (Bogota).
- Certified Liferay Digital Experience expert; supervised 20+ platform migrations across financial and public-sector clients.

TECHNICAL SKILLS

Languages & Libraries:	Python (pandas, NumPy, requests, SQLite), SQL, Bash
AI & LLM Tooling:	Claude API, OpenAI API, multi-agent orchestration, LLM prompt engineering, RAG pipelines
Data & Research:	Apify scraping, SQLite-vec embeddings, Supabase, REST APIs, observational dataset construction
Platforms & Infra:	Linux/Systemd, Docker, Vercel, GitHub Actions, SvelteKit
Methodologies:	Agile PM, PMP, mixed-methods research design, structured stakeholder interviews