Martín Alexis Illanes Vindzanova

Civil Engineering in Industries, Diploma in Information Technology · Master in Public Policy (PUC Chile)

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EDUCATION

Pontifical Catholic University of Chile

Civil Engineering in Industries: Diploma in Information Technology Engineering *2019 – 2025*

- Degree awarded with distinction (2026); ranked 5th of 61 in the 2026 graduating class (top 8%).
- Diploma in Information Technology Engineering: IT Project Management, Software Engineering, Databases, Computer Architecture, and Information Systems.

Master's in Public Policy *2024 – 2025*

EXPERIENCE

Compañía Chilena de Inteligencia de Datos (COCHID)

Data Product Development *March 2026 – Present*

- Build and operate civic data-intelligence platforms (legislation, Congress, elections, and public data), published at cochid.cl.

Foresight

Data & AI Solutions Consultant *2026 – Present*

- On the Ballerina project: structured data flows and designed an AI-agent-based solution to generate and evaluate scenarios, within a planning and evaluation consultancy.
- Built demos and consolidated deliverables (reports and presentations) for the client, and managed project planning.

Compañía de Innovación de Santiago SpA (CIS)

Co-founder: Product Development & Infrastructure *March 2026 – Present*

- I design, build and operate technology and data products (web apps and sites) on self-hosted infrastructure, covering the full cycle: architecture, development, deployment and operations. Site: innovacionsantiago.cl.

Espacio Público

Researcher and Data Analyst *December 2024 – Present*

- Lead researcher of the study "Coverage and financial protection for medicines in Chile" (Espacio Público with support from the Chilean Chamber of Pharmaceutical Innovation, 2025-2026): spending, financing, household burden, high-cost drugs and policy options; published at medicamentos.cochid.cl.
- Research for the IDB (Inter-American Development Bank) on the efficiency and quality of public security spending.

illanes00.cl: Self-hosted production infrastructure & platform

Linux Infrastructure Administrator & Full-Stack Engineer *2020 – Present*

- Since 2020, I have run a personal fleet of 5 Linux servers (VPS) with 50+ production services, 100+ domains (Caddy), and 14 PostgreSQL databases.
- Designed and operate a custom control plane (illanes00-server, 69 tools): deployments, DNS, secrets, SSO (Authentik), and monitoring (Prometheus/Grafana), with validated failure recovery.

Pontifical Catholic University of Chile

Research Assistant - Prof. Loreto Cox (Fondecyt) *August 2024 – December 2025*

- Data analysis in R for the Fondecyt project "Crime Threat and Democratic Values in Latin America": threat-to-Congress surveys (El Salvador, Sri Lanka, Tunisia), electoral data (CSES), stock-market series (Lima Stock Exchange), and prediction markets in Peru.
- Supported the management of the FONDECYT 2025 research-assistant call.

Teaching Assistant *2020 – 2025*

- 16 TA positions in areas like Computer Science, Public Policy, Design, Economics, and Engineering, including courses such as 'Economics for Public Policy' and 'Evaluation of Public Programs'.
- Impact on over 1300 students through material development, homework review, personalized assistance, and substituting for Professors.

PUBLICATIONS

Illanes, M. (2026). *University Substitution in Thin Regional Innovation Systems: The Case of Puerto Varas' Salmon-Biotech Cluster*. Master's Thesis in Public Policy, Pontifical Catholic University of Chile.

Espacio Público (2025). *El gasto público en seguridad ciudadana en Chile: magnitud, composición y bases para una agenda de calidad y eficiencia*. Report for the Inter-American Development Bank (IDB). Data integration and drafting: M. Illanes.

Goñi, J., Parga, M.J., Illanes, M., Millán, M.J., & Rodrigues, E. (2024). *Tooling with ethics in technology: a scoping review of responsible research and innovation tools*. Journal of Responsible Innovation, 11(1). doi.org/10.1080/23299460.2024.2360228

Full list of publications at cv.illanes00.cl

ADDITIONAL INFORMATION

Data & Analytics: Advanced SQL and web scraping; visualization and dashboards (Power BI); pandas and tidyverse/R; report automation (Quarto); ML and network analysis (scikit-learn); GIS (QGIS); public data sources (CASEN, CENSO, OECD, etc.).

Infrastructure & DevOps: Linux, systemd, Caddy (reverse proxy + TLS), Docker, Git & GitHub Actions (CI/CD), Cloudflare (DNS), Authentik (SSO), Prometheus & Grafana (observability), secrets management, multi-VPS fleet administration.

Programming Languages: Python, TypeScript/JavaScript, R, SQL, Bash, C/C++, PHP, Lua.

AI / LLM / Agents: Claude/OpenAI SDKs, agent orchestration and MCP (Model Context Protocol), RAG and vector search (pgvector), NLP and embeddings.

Certifications: Amateur Radio License (SUBTEL, 2026); Driver's license.

Languages: Spanish and Latvian native, English (CEFR C1, Cambridge University Press & Assessment English), French (CEFR A2, self-assessed)