Juan Pablo Henao Henao

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PROFESSIONAL SUMMARY

Applied environmental economist and water policy researcher with international experience across EU- and UN-funded programmes. Lead author on EU water governance deliverables that extend the **OECD Water Governance Indicator Framework** and **Principles on Water Governance**, with research on **water pricing, Water Framework Directive (WFD), cost recovery, and sustainable resource use**. My work combines rigorous quantitative analysis (econometrics, optimisation, statistics in R) with policy-relevant drafting for specialist and non-specialist audiences, multi-country stakeholder engagement, and project design and fundraising.

SKILLS

- Water governance & water economics
- Cost recovery, water pricing & economic instruments
- Governance indicators & monitoring frameworks
- Economic & policy research design
- Circular economy & nature-based solutions
- Statistics & quantitative analysis (R)
- Econometrics, optimisation, stochastic frontier & DEA
- Database building & empirical analysis
- Policy paper & report drafting; briefings
- Stakeholder engagement & international liaison
- Project management & fundraising (proposals)
- MS Office; LaTeX; SQL; Shiny R

Languages: English (Fluent), Spanish (Native), French (Basic, committed to learn), Italian (Intermediate), German (Basic).

PROFESSIONAL EXPERIENCE

Technical University of Munich (TUM) Jan. 2023 – Present
Research Associate — Production & Resource Economics — RETOUCH NEXUS Project Freising, Germany

- Lead author on EU-funded (Horizon Europe) water governance deliverables that build on the OECD Water Governance Indicator Framework and Principles on Water Governance, proposing multi-level, cross-sectoral indicators to monitor water governance across spatial and temporal scales.
- Designed water governance indicator sets spanning cost recovery, water scarcity, policy coherence, institutional settings, and stakeholder engagement, mapped for both research and policy-making use.
- Conducted quantitative economic research on optimal water pricing and cost recovery under the EU Water Framework Directive, combining optimisation with stochastic frontier analysis for agriculture and energy sectors.
- Built and analysed EU-27 country-level environmental and economic databases (water abstractions, GHG emissions, sustainable agricultural productivity) to support policy-relevant assessment and empirical analysis.

Food and Agriculture Organisation of the United Nations (FAO) Jan. 2020 – Dec. 2022
GEF Project Development Consultant Rome, Italy

- Designed environment and climate projects for Global Environment Facility (GEF) funding, developing proposals, results frameworks, and monitoring indicators.
- Secured GEF funding for at least four medium-sized projects (~US$1 million each) in Belize, Jamaica, and Turkey (x2), and contributed to further projects across the Latin America & Caribbean and Eastern Europe & Caucasus portfolios.
- Conducted environmental and socio-economic assessments integrating climate resilience, biodiversity, and natural-resource management, translating findings into implementable project components.
- Coordinated inputs across international, cross-functional stakeholders (governments, agencies, and technical partners) to ensure timely, quality delivery.

Universidad de los Andes — CEDE Nov. 2017 – Dec. 2019
Research Assistant Bogotá, Colombia

- Applied quantitative methods to value ecosystem services and evaluate the economic performance of coastal protection and restoration investments (nature-based solutions), informing adaptation and resilience policy.
- Analysed livelihoods and sustainability of community-managed artisanal fisheries in marine protected areas (blue economy), designing survey instruments and empirical analysis to inform conservation and policy design.

SELECTED WATER & ENVIRONMENTAL POLICY RESEARCH

List of Water Governance Indicators — RETOUCH NEXUS Deliverable D1.3 (lead author)
Funding: EU Horizon Europe

- Extended the OECD Water Governance Indicator Framework with multi-level Water–Energy–Food–Ecosystems (WEFE) Nexus indicators to assess water governance over different spatial and temporal scales, from a research and a policy-making perspective.

Available Data, Data Gaps and Their Implications — RETOUCH NEXUS Deliverable D1.4 (lead author)
Funding: EU Horizon Europe

- Assessed data availability and gaps across European case studies to operationalise the water governance indicator framework.

Optimal Water Pricing for Sustainable Agriculture and Electricity Cooling in the EU (lead author)
Funding: EU Horizon Europe

- Identified conditionally optimal water allocations and pricing mechanisms under the Water Framework Directive cost-recovery mandate, combining an optimisation model with a revenue stochastic frontier analysis and embedding SDG target 6.4.2 (EU-27, 2000–2019).

Drivers of Environmentally Sustainable Productivity Growth in EU Agriculture (lead author)
Funding: EU Horizon Europe

- Built an environmentally sustainable productivity growth (ESPG) index incorporating GHG emissions, water abstractions, and weather, using Bayesian estimation of a directional distance function (EU-27, 2000–2019).

Irrigation Water Management Efficiency under Climate Variability (in progress, lead author)
Funding: EU Horizon Europe

- Developed a three-stage network DEA framework to evaluate irrigation water management efficiency across cropping seasons spanning an aridity peak, for Mediterranean greenhouse vegetable production.

EDUCATION

Technical University of Munich — 2023 – Present
Doctoral Candidate (in progress) — Production & Resource Economics — Germany

Universidad de los Andes — 2017 – 2019
M.Sc. Applied Economics — Environmental & Natural Resource Economics — Bogotá, Colombia

Universidad de los Andes — 2011 – 2016
B.Sc. Mathematics — Bogotá, Colombia