

# GLORIA M. COLMENARES M.

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<https://gloriacolmenares.netlify.app/>

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## RESEARCH INTERESTS

Energy & Environmental Economics; Game Theory; Empirical Industrial Organization; Public Economics; Machine Learning; Natural Resource Economics; Behavioral Economics

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## EDUCATION

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| 2017-2021 | UNIVERSITY OF MÜNSTER (WWU)<br>Doctor in Philosophy in Economics<br>Focus: Energy & Environmental Economics, Empirical IO, Public Economics             |
| 2012-2013 | THE UNIVERSITY OF QUEENSLAND (UQ)<br>Master of Science in Environmental Management and Natural Resource Economics<br>Thesis: Biofuels Potential of Peru |
| 1999-2004 | PONTIFICAL CATHOLIC UNIVERSITY OF PERU (PUCP). 90 <sup>th</sup> percentile<br>Bachelor of Science in Civil Engineering                                  |

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## WORKING PAPERS

“Strategies and Expansion of Intermittent Renewables: Disentangling Pass Through Costs in Electricity Markets” with Dominik Schober and Andreas Löschel. *Job Market Paper*.

“Duck-like Evidence of Negative and Positive Demand Response: Pricing and Welfare Implications”

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## RESEARCH IN PROGRESS

“What Can Data Tell us about Inelastic Demand or Demand Response under Changing Environments?”

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## PUBLICATIONS

“The Representation of the Rebound Effect in Energy and Climate Models” with Andreas Löschel and Reinhard Madlener. Forthcoming in *Environmental Research Letters*.

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## RESEARCH AND TEACHING EXPERIENCE

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| 2019      | STANFORD PROGRAM ON ENERGY AND SUSTAINABLE DEVELOPMENT (PESD)<br>Visiting Research Scholar                        |
| 2012-2013 | UQ SCHOOL OF ECONOMICS<br>Research Assistant  |
| 2002-2007 | CEPREPUCP (Pre-Collegiate Studies of the PUCP)<br>Teaching Assistant on linear algebra and formal logic tutorials |

## AWARDS

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2017–2021	KAAD SCHOLARSHIP FOR DOCTORAL STUDIES. €50K
2019	STANFORD PESD. Research Stay. US. €5.5K
2018	SIEMENS GAMESA HACK THE WIND. Germany. <i>Finalist</i> .
2016	RENAC SCHOLARSHIP. Renewable energy and grid integration. Germany. €3K
2016	RENAC SCHOLARSHIP. Bankability of renewable projects. Peru. €1K
2011–2013	AUSAID SCHOLARSHIP FOR POSTGRADUATE STUDIES. Australia. AU\$40K

## PRESENTATIONS

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2020	OSWEET (Online Summer Workshop in Environment, Energy, and Transportation), EAERE (European Association of Environmental and Resource Economists ), PIK (Chair of Climate and Energy Policy of the Potsdam Institute for Climate change), EIB (Chair of Energy and Sustainability at the Barcelona Institute of Economics), ETH Zürich 13 <sup>th</sup> EMEE (Workshop of Empirical Methods in Energy Economics), WWU, WWU 2min-Pitch talk
2019	EWI (Summer School at the University of Cologne), IFO INSTITUTE (Summer School 4NEMO), Mannheim 8th Energy Conference
2016	CAISO (California ISO)
2014	INTEGRACIER (Integration of Iberoamerican System Operators)

## PROFESIONAL SERVICE

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Referee for “*Energy Research and Social Science*”, *Elsevier*

Organizer, 31<sup>st</sup> Australasian Economic Theory Workshop, UQ SCHOOL OF ECONOMICS

## WORK EXPERIENCE

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2014-2017	<p>COES SINAC, PERUVIAN GRID OPERATOR Energy Transfer Specialist</p> <ul style="list-style-type: none"><li>• Computed monthly transactions of \$40 - \$60MM using optimal power flows to assign capacity payments.</li><li>• Analyzed Peruvian energy policies and updated technical procedures to follow changes in the design of the ancillary services market and the transition from a uniform to a locational marginal price scheme.</li><li>• Presented changes in technical procedures for the calculation of locational marginal prices and informed about new payment schemes to integrate renewables at CIER in Uruguay (Latin-America and Caribbean operators’ regional meeting) and the Californian Independent System Operator (CAISO).</li><li>• Designed technical procedures to enforce financial guarantees to reduce market exposure.</li></ul>
2010-2011	<p>CESEL ENGINEERS Structural Engineer</p> <ul style="list-style-type: none"><li>• Advised and awarded five contracts of infrastructure projects via first-price auctions between the Peruvian government and private companies, each valued between \$50 - \$100MM.</li></ul>

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| 2010      | <p>NOKIA SIEMENS NETWORK</p> <p>Project Manager</p> <ul style="list-style-type: none"> <li>Managed the rollout plan of 205 wireless broadband stations across Peru including Greenfields, Rooftops and Hybrids, valued at a total of \$30MM.</li> </ul>   |
| 2009      | <p>POCH ENGINEERS</p> <p>Project Coordinator</p> <ul style="list-style-type: none"> <li>Prepared, advised, and awarded two contracts of telecommunication projects via English auctions between the Peruvian government and Telefónica, each valued between \$10 - \$15MM.</li> </ul>                                 |
| 2006-2009 | <p>MER GROUP</p> <p>Project Coordinator</p> <ul style="list-style-type: none"> <li>Supervised subcontractors and monitored the impacts of the company's strategies of 303 telecommunication projects valued at a total of \$15MM. Increased annual profits of the company by 60% and reduced 25% of costs.</li> </ul> |

## SELECTED COURSES

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2020	UC BERKELEY. The Economics of Energy and the Environment
2019	UC BERKELEY /SLOAN. Summer School in Environmental and Energy Economics
2012	UQ SCHOOL OF ECONOMICS. The Carbon Tax: Early Experience and Future Prospects

## IT SKILLS

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R, Python/Spyder, Stata, Gams, E-views, Octave, Matlab, @RISK, VBA, PSS-E (optimal AC power flow), E-Sankey, SDDP-PSR (hydrothermal dispatch), SCADA, AutoCAD, SAP2000, ETABS, STAAD, SAFE.

## LANGUAGES

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Spanish (native), English (fluent), German (B.2.2)

## COMMUNITY SERVICE

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2018–2021	COHAUS VENDT STIFT. Elderly assistance programs. Germany
2012	BEYOND ZERO EMISSIONS. Supporting the energy transition. Australia
2011	GRUPO PUCP. Infrastructure for education in the Amazon. Peru