

## GLORIA M. COLMENARES M.

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### RESEARCH INTERESTS

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

### EDUCATION

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

### WORKING PAPERS

“Expansion of Intermittent Renewables: Strategies, pass-through costs, and welfare distribution” with Dominik Schober and Andreas Löschel. *Job Market Paper*

“Evidence of flexibility and its economic implications on the day-ahead electricity market”

### RESEARCH IN PROGRESS

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

### PUBLICATIONS

“The Representation of the Rebound Effect in Energy and Climate Models” with Andreas Löschel and Reinhard Madlener. *Environ. Res. Lett.* **15** 123010. <https://doi.org/10.1088/1748-9326/abc214>

### RESEARCH AND TEACHING EXPERIENCE

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

## 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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2021	EAERE, IIOC
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 Institut d’Economia de Barcelona), ETH Zürich 13 <sup>th</sup> EMEE (Workshop of Empirical Methods in Energy Economics), WWU, WWU 2min-Pitch talk
2019	Summer School at the Institute of Energy Economics at University of Cologne (EWI), Summer School on New Methods in Energy System Modeling at IFO Institute (4NEMO), Mannheim 8th Energy Conference
2016	CAISO (California ISO)
2014	IntegraCIER (Integration of Iberoamerican System Operators), Iberoamerican Congress of Energy

## PROFESIONAL SERVICE

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Referee for “*Energy Research & Social Science*”, “*Environmental Research Letters*”

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

## WORK EXPERIENCE

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2014-2017	COES SINAC, PERUVIAN GRID OPERATOR Energy Transfer Specialist <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 IntegraCIER and CAISO.</li><li>• Designed technical procedures to enforce financial guarantees to reduce market exposure.</li></ul>
2010-2011	CESEL ENGINEERS Structural Engineer

- Advised and awarded five contracts of infrastructure projects via first-price auctions between the Peruvian government and private companies, each valued between \$50 - \$100MM.
- 2010 NOKIA SIEMENS NETWORK  
Project Manager
- Managed the rollout plan of 205 wireless broadband stations across Peru including Greenfields, Rooftops and Hybrids, valued at a total of \$30MM.
- 2009 POCH ENGINEERS  
Project Coordinator
- Prepared, advised, and awarded two contracts of telecommunication projects via English auctions between the Peruvian government and Telefónica, each valued between \$10 - \$15MM.
- 2006-2009 MER GROUP  
Project Coordinator
- 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.

## 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 Rural PUCP. Infrastructure for education in the Amazon. Peru