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RESEARCH INTERESTS

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

EDUCATION

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|-----------|---|
| 2017-2021 | UNIVERSITY OF MÜNSTER (WWU)
Doctor of Philosophy in Economics
Focus: Energy & Environmental Economics, Empirical IO, Public Economics |
| 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). 90 th percentile
Bachelor of Science in Civil Engineering |

WORKING PAPERS

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

“Non-price and Price Determinants of Duck-like Demand: Pass-Through Costs and Welfare implications”

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

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| 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 linear algebra and formal logic tutorials |

AWARDS

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

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 th 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

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

Organizer, 31st Australasian Economic Theory Workshop, UQ SCHOOL OF ECONOMICS

WORK EXPERIENCE

2014-2017	<p>COES SINAC, PERUVIAN GRID OPERATOR Energy Transfer Specialist</p> <ul style="list-style-type: none">• Computed monthly transactions of \$40 - \$60MM using optimal power flows to assign capacity payments.• 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.• 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.• Designed technical procedures to enforce financial guarantees to reduce market exposure.
2010-2011	<p>CESEL ENGINEERS Structural Engineer</p> <ul style="list-style-type: none">• Advised and awarded five contracts of infrastructure projects via first-price auctions between the Peruvian government and private companies, each valued between \$50 - \$100MM.

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| 2010 | <p>NOKIA SIEMENS NETWORK</p> <p>Project Manager</p> <ul style="list-style-type: none"> Managed the rollout plan of 205 wireless broadband stations across Peru including Greenfields, Rooftops and Hybrids, valued at a total of \$30MM. |
| 2009 | <p>POCH ENGINEERS</p> <p>Project Coordinator</p> <ul style="list-style-type: none"> 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 | <p>MER GROUP</p> <p>Project Coordinator</p> <ul style="list-style-type: none"> 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

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

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 |