

Alvar Escrive-Bou

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Research Interests:

- Water-food-energy-climate systems interdependence
- Environmental policy
- Agricultural and resource economics
- Hydroeconomic modeling
- Climate change impacts, mitigation, and adaptation
- Integrated hydro-environmental and energy resource planning and management
- Hydro-informatics

Education:

- PhD *Cum Laude*, Water and Environmental Engineering2015
Polytechnic University of Valencia (Spain)
Dissertation title: *The Water-Energy Nexus: A “Bottom-Up” Approach For Basin-Wide Management.*
Advisors: Jay R. Lund, PhD
Manuel Pulido-Velazquez, PhD
- MS, Agricultural & Resource Economics2014
University of California, Davis (USA)
- MS, Hydraulic and Environmental Engineering2012
Polytechnic University of Valencia (Spain)
Thesis title: *A Hydro-economic Analysis of Climate Change Adaptive Strategies for Water Resource Management Systems: Application in the Jucar River Basin (Spain).*
Advisers: Manuel Pulido-Velazquez, Ph.D.
David Pulido-Velazquez, Ph.D.
- BS, Civil Engineering.....2008
Polytechnic University of Valencia (Spain)

Research experience:

2015 - Present	Research Fellow, Public Policy Institute of California, Water Policy Center
2012 - 2015	Graduate Student Researcher at the Center for Watershed Sciences, University of California, Davis (USA)
2010 - 2015	PhD student at the Polytechnic University of Valencia (Spain) granted by the Erasmus Mundus Programme of the European Commission
2004 - 2006	Research intern at the Institute of Water and Environmental Engineering (IIAMA) at Polytechnic University of Valencia (Spain). Responsibilities: Hydrologic modeling of land use changes in basins in eastern Spain

Professional Experience:

Research Fellow, Public Policy Institute of California, Water Policy Center..... Since 9/2015

Civil Engineer at a Vielca Ingenieros, S.A. (Spain)..... 2008 - 2012

- Responsibilities: design and supervision of civil engineering projects, most of them related with land planning, hydrologic assessment, hydraulic infrastructures and road design.
- Main projects as a principal engineer designer:
 - *“Riola’s freeway variant (Valencia)”* for the Valencia Regional Authority
 - *“Water supply design of the Low-Turia Irrigation Sector (Valencia)”* for the Low-Turia Irrigation Community
 - *“Optimization of the energy consumption of the sewer network of Denia (Alacant)”* for the city council of Denia (Alacant)
 - *“Redesign of Ojos Negros Green Belt between Altura and the A-23 Highway (Castelló)”* for the City Council of Altura
- Main projects as a principal engineer supervisor:
 - *“Urbanization of Camí del Corral del Batlle y Vial VDL in Puerto de Sagunto (Valencia)”* for the City Council of Sagunt
 - *“Urbanization of Conarda and Les Peñes in Pobla de Vallbona (Valencia)”* for the City Council of Pobla de Vallbona

Public Works Supervisor at Canals City Council (Spain)2004 - 2008 (Part time)

- Responsibilities: supervision of public work constructions for the city council, most of them related with urban land development.

Volunteer at “Engineering without borders, Spain” 2006-2012

- I collaborated in projects that were developed in Nicaragua, Argentina and Burkina Faso, mainly focused in small agricultural development, water infrastructure and education. I did field work on Nicaragua for three months.

Publications:

1.Escriva-Bou, A., M. Pulido-Velazquez, D. Pulido-Velazquez (Forthcoming), “The Economic Value of Adaptive Strategies to Global Change for Water Management in Spain’s Jucar Basin,” in *Journal of Water Resources Planning and Management*

2.Escriva-Bou, A., J.R. Lund and M. Pulido-Velazquez (2015), “Optimal residential water conservation strategies considering embedded energy in California,” in *Water Resources Research*, 51(6), 4482-4498

3.Escriva-Bou, A., J.R. Lund, and M. Pulido-Velazquez (2015), “Modeling residential water and related energy, carbon footprint and costs in California,” in *Environ Sci Policy*, 50(0), 270-281

4. Null S.E., J. Medellín-Azuara, A. Escriva-Bou, M. Lent, J. R. Lund (2014), “Optimizing the dammed: Water supply losses and fish habitat gains from dam removal in California,” in *Journal of Environmental Management* 136 (2014) 121-131.

Papers in Preparation:

“Managing the urban water-energy nexus,” by Alvar Escriva-Bou, Jay R. Lund and Manuel Pulido-Velazquez

“Modeling water resource systems accounting for water-related energy use, GHG emissions and water-dependent energy generation in California,” by Alvar Escriva-Bou, Jay Lund, Manuel Pulido-Velazquez and Josue Medellin-Azuara

Book Chapters:

1. Pulido-Velazquez M., Lopez-Nicolas A., Macian-Sorribes H., Peña-Haro S., Escrivá-Bou A. (2014). “Potencial de los modelos hidroeconómicos en la en la gestión de sistemas de recursos hídricos,” en Solera A. et al., *Aplicaciones de Sistemas Soporte a la Decisión en Planificación y Gestión Integradas de Cuencas Hidrográficas*, 247-257. Ed. Marcombo, Barcelona.

Conferences (Oral Presentations):

1. Escrivá-Bou, A.; Lund, J.; Pulido-Velazquez, M. (2016), “Managing the Urban Water-Energy Nexus”, European Geoscience Union (EGU) Annual Meeting, April 18-22, 2016, Vienna, Austria.
2. Escrivá-Bou, A. (2014), “When water meets behavioral economics: or it is not all about money!” American Geophysical Union (AGU) Fall Meeting, December 15-19, 2014, San Francisco, California.
3. Escrivá-Bou, A.; Lund, J.; Pulido-Velazquez, M.; Spang, E.; Loge, F. (2014), “Optimal urban water conservation strategies considering embedded energy: coupling end-use and utility water-energy models,” American Geophysical Union (AGU) Fall Meeting 2014, December 15-19, San Francisco, California.
4. Escrivá-Bou, A.; Lund, J.; Pulido-Velazquez, M. (2014), “Modeling Residential Water, Energy, Carbon Footprint and Costs in California,” Proceedings of the Water, Energy and Climate Conference of the International Water Association, May 21-23, 2014, Mexico City, Mexico.
5. Escrivá-Bou, A.; Lund, J.; Pulido-Velazquez, M. (2014), “Residential Water-Energy Modeling,” Proceedings of the 2014 CWEMF Annual Conference: 20 years of supporting the California Water Community, February 24-26, 2014, Folsom, California.
6. Escrivá-Bou, A.; Pulido-Velazquez M.; Pulido-Velazquez, D. (2013), “Hydro-economic analysis of climate adaptive strategies for water management,” Proceedings of the UCOWR/NIWR Annual Conference: Sustaining water resources and ecological functions in changing environments, June 11-13, 2013, Lake Tahoe, California.

Conferences (Posters):

1. Escrivá-Bou, A., J.R. Lund, and M. Pulido-Velazquez (2015). “Modeling water resource systems accounting for water-related energy use, GHG emissions and water-dependent energy generation in California,” American Geophysical Union (AGU) Fall Meeting, December 14-18, 2015, San Francisco, California.
2. Hart, Q.; Medellín-Azuara, J.; Sandoval, S.; Lund, J.; Escrivá-Bou, A.; Hui, R.; Dogan, M.; Singh, K. and Santos, N. (2015); “The Hobbes Project Update,” Proceedings of the 2015 CWEMF Annual Conference: Charting the future through uncertain pathways, March 9-11, 2015, Folsom, California.
3. Escrivá-Bou, A. (2013); “Residential water-energy use in California: The impacts of spatial, behavioral and household heterogeneity,” Proceedings of the 2013 CWEMF Annual Conference: Modeling to make a difference, April 22-24, 2013, Folsom, California.

Invited Speaker/Panelist/Lecturer:

- Invited Panelist in the 7th Annual Bay Area Policy Forum organized by the University of Southern California-Price School of Public Policy. March 4, 2016
- Invited Lecturer on Water and Energy Relationship for ECI 267: Water Resource Management. University of California, Davis. Winter 2016
- Invited Speaker in Strengthening the Relationship between Academia and Water Utilities, organized by Aguas de Valencia and the Polytechnic University of Valencia. Valencia, February 4, 2016
- Invited Speaker in the Water Education for Latino Leaders Regional Water Supply Workshop. November 14, 2015
- Invited Panelist in the CalAsian Chamber of Commerce Global Policy Summit on Water, Energy, Environment and Entrepreneurship for EE 292H: Engineering, Entrepreneurship and Climate Change. Stanford University. November 4, 2015
- Invited Lecturer on Water, Energy, Environment and Entrepreneurship for EE 292H: Engineering, Entrepreneurship and Climate Change. Stanford University. November 3, 2015
- Invited Lecture on Urban Water Management for ECI 155: Water Resources Engineering Planning. University of California, Davis. Spring 2015

Journal Reviewer:

Environmental Modelling and Software; Environmental Science and Policy; Journal of Water Resources Planning and Management; Sustainable Cities and Society, Water Science and Technology; Water Supply.

Teaching Experience:

- Teaching Certificate (Polytechnic University of Valencia, Spain): Spanish official graduate studies to obtain the certificate of teaching. 300 hours (150 hours on academic courses + 150 hours training as a Physics Teacher in the Joan Fuster High School of Sueca, Valencia).
- University of California, Davis. ECI 155 (Spring 2015): Water Resources Engineering Planning. Teaching Assistant.
- University of California, Davis. ARE 142 (Fall 2014): Personal Finance. Teaching Assistant.
- University of California, Davis. ECI 153 (Fall 2013): Deterministic Optimization and Design. Teaching Assistant.

Grants:

TEE Erasmus Mundus Programme.....November 2012 - November 2014

- 25 months mobility stay at University of California Davis funded by the Erasmus Mundus Programme of the European Commission under the Transatlantic Partnership for Excellence in Engineering -TEE Project.

International Assoc. for the Exchange of Students for Tech. Experience ScholarshipFall 2002

- Mobility stay at Universidade Estadual de Campinas, São Paulo (Brazil) funded by IAESTE, working on the project “GIS inventory of water supply pipelines in the campus of the Universidade Estadual de Campinas”.

Language Skills:

<i>Language</i>	<i>Reading</i>	<i>Writing</i>	<i>Conversation</i>
Spanish		Mother Tongue	
Catalan		Mother Tongue	
English	Excellent	Excellent	Excellent
Portuguese	Excellent	Good	Good

(Last updated May 2, 2016)