

Sergio Tirado Herrero

PERSONAL and CONTACT INFORMATION

Nationality: Spanish

Date and place of birth: July 16th, 1978. Madrid (Spain)

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EDUCATION

Central European University (CEU) - Budapest (Hungary) - 2013

Environmental Sciences and Policy doctoral program

Dissertation topic: *Fuel poverty in Hungary: assessing the co-benefits of residential energy efficiency* [supervised by Prof. Diana Ürge-Vorsatz]

National Distance Learning University (UNED) - Madrid (Spain)

BA Social and Cultural Anthropology - expected by June 2013

University of Alcalá (UAH) - Madrid (Spain)

MSc Global Change and Sustainable Development (Environmental Economics) - 2007

BSc Environmental Sciences - 2001

Cheltenham and Gloucester College of Higher Education - Cheltenham (UK)

Erasmus exchange program courses on Human Geography, Physical Geography and Environmental Sciences - 2000-2001

RESEARCH and WORK EXPERIENCE

Center for Climate Change and Sustainable Development (3CSEP) at Central European University (CEU) - Budapest (Hungary)

On-going since September 2008. Researcher and PhD candidate, with various tasks and responsibilities ranging from contributing author to team leader of the following projects:

- *Global Energy Assessment* [International Institute for Applied Systems Analysis - IIASA]
- *Employment impacts of a large-scale deep building energy retrofit program in Poland* [European Climate Foundation]
- *Employment impacts of a large-scale deep building energy retrofit program in Hungary* [European Climate Foundation]
- *Fuel poverty in Hungary. A first assessment* [Védegyilet - Protect the Future Society]
- *Post-Lisbon Strategy: the climate and energy policy area* [Hungarian National Development Agency]
- Consultancy paper on *Investing in energy efficiency in buildings with district heating* [European Commission/Directorate General Regional Development]

Observatory on Sustainability in Spain - Madrid (Spain)

March 2012 - June 2012. Contributing author, responsible for the chapter on fuel poverty in the special report Sustainable Energy for All 2012, and for the elaboration of fuel poverty indicators for Spain.

Spanish Association of Environmental Sciences - Madrid (Spain)

November 2011 - March 2012. Coordinator of report *Fuel poverty in Spain: direct employment creation potential derived from energy efficiency retrofits in residential buildings* [Spanish Ministry of the Environment/European Social Fund]

TRAGSATEC - University of Alcalá - Madrid (Spain)

June 2006 - August 2008. Researcher and assistant coordinator of a project involving 6 Spanish universities and a consultancy company, with responsibilities for budget implementation. Project: *Economic valuation of Spain's ecosystem services* [Spanish Ministry of the Environment]

Environmental Economics Group at the University of Alcalá (UAH) - Madrid (Spain)

September 2002 - May 2006. Research assistant for applied research projects commissioned by national and international partners:

- *Economic valuation of the environmental impacts of 11 electricity generation technologies* [Spanish Ministry of Industry]
- *Cost-benefit analysis of the Spanish Strategy of Energy Efficiency and of the Spanish Renewable Energies Program* [Spanish Ministry of Industry]
- *Estimation of the recreational Demand in the Huetar-vertiente Atlántica region (Costa Rica) using Random Utility Models* [Interamerican Development Bank]
- *Assessment of the demand-side water management plan of the municipality of Madrid* [Agenda 21 Unit of the Madrid City Council]
- *Economic assessment of the draft Environmental Liability Act* [Spanish Ministry of Environment]

The Regional Environmental Centre for Central and Eastern Europe (REC) - Szentendre (Hungary)

February 2001 - May 2002. Assistant to the manager of the project *Transboundary Co-operation through the Management of Shared Natural Resources* [Swiss Agency for Development and Cooperation]

PUBLICATIONS

Peer reviewed articles and papers

Tirado-Herrero, S., Ürge-Vorsatz, D. Trapped in the heat: a post-communist type of fuel poverty. *Energy Policy* <http://dx.doi.org/10.1016/j.enpol.2011.08.067>

Ürge-Vorsatz, D., Tirado-Herrero, S. Building synergies between climate change mitigation and energy poverty alleviation. *Energy Policy* <http://dx.doi.org/10.1016/j.enpol.2011.11.093>

Tirado-Herrero, S., Ürge-Vorsatz, D., Arena, D. Telegdy, Á. 2011. Co-benefits quantified: employment, energy security and fuel poverty implications of the large-scale, deep retrofitting of the Hungarian building stock. *Proceedings of the eceee 2011 summer study*. Belambra Presqu'île de Giens, France.

Ürge-Vorsatz, D., Arena, D., Telegdy, Á., Tirado Herrero, S., Butcher, A.C., Köpataki, É., 2011. Job creation with energy efficiency? Estimating the net job creation effects of a large-scale, deep energy efficiency renovation of the residential and public building stock in Hungary. *Journal of the Hungarian Energy Association: Magyar Energetika XXV* (February 2011).

Azqueta, D., Landa, L., Tirado, S., 2005. La política ambiental en España: nuevo rumbo, viejos problemas [*Environmental policy in Spain: new directions, old problems*]. *Economistas* 104.

Tirado, S., 2005. The role of desertification in deepening the historical conflict between farmers and herders in Northern Africa. In: Kepner, W.G., Rubio, J.L., Mouat, D.A.,

Pedrazzini, F. (eds.) *Desertification in the Mediterranean region: a security issue* (109-132), Springer, The Netherlands.

Books

Azqueta, D., Delacámara, G., Santamaría, M., Tirado, S. 2004. *Contabilidad Nacional y Medio Ambiente [National Accounts and the Environment]*. FUNCAS, Madrid, 332 pp.

Chapters of books

Azqueta, D., Tirado, S. 2007. La valoración económica de los activos naturales de España desde una perspectiva geográfica. Retos conceptuales y metodológicos. [*The economic valuation of Spain's natural assets from a geographical standpoint. Theoretical and methodological challenges*]. In: Campos, P., Casado, J.M. *Gestión del Medio Natural en la Península Ibérica: Economía y Políticas Públicas* (59-78). FUNCAS, Madrid.

WORKSHOPS and CONFERENCES

Scientific conferences and workshops

InCLuESEV transatlantic dialogue. Durham (North Carolina, USA), October 6-7 2011.

Alleviating fuel poverty in Hungary. Assessing the co-benefits of building retrofit programs.

35th Annual Conference of the Association for Teacher Education in Europe. Budapest (Hungary), August 26-30, 2010.

Apropos climate change! Energy efficiency in buildings.

InCLuESEV workshop Mapping the European energy poverty research landscape: towards common action and co-operation. Brussels (Belgium), September 30, 2010.

Fuel poverty in Hungary. Measurements, experiences and policies.

III Congress of the Spanish-Portuguese Association of Natural Resources and Environmental Economics. Palma de Mallorca (Spain), June 2008.

The value of ecosystem services: incorporating the biological diversity (with D. Azqueta y G. Delacámara)

The economic value of carbon sequestration by ecosystems. Are things as they look like? (with D. Azqueta, J. Alarcón, G. Delacámara y Z. Hernández)

13th Annual Conference of the European Association of Environmental and Resource Economics. Budapest (Hungary), June 2004

Limitations to GHG emissions external marginal costs estimates. Does it make sense exploring alternative approaches?

Presentations

Workshop “Investing in a more energy efficient infrastructure as an economic driver for Poland”. Permanent Representation of Poland in the European Union. Brussels, May 23, 2012.

Employment effects and co-benefits of a large-scale, deep retrofit of the Polish building stock (with D. Ürge-Vorsatz)

REPEX project, presentation of the final report. Madrid (Spain), March 27, 2012.

Fuel poverty in Spain: direct employment creation potential derived from energy efficiency retrofits in residential buildings

USE project final workshop: Improvement of the Energy Education. Towards the 20-20-20 Goals. Budapest (Hungary), January 12, 2012.

Introducing CEU/3CSEP research activities. The role of co-benefits in promoting energy efficiency in buildings

UNEP webinar Finance Initiative & UN Principles for Responsible Investment. Property investors' perspective on Climate Change policy. November 17, 2011.

Introduction: How far buildings can take us? (with D. Üрге-Vorsatz)

CEU Board of Trustees. Budapest (Hungary), November 4, 2011.

Fuel poverty in Hungary. Assessing the co-benefits of residential energy efficiency

Department of Environmental Sciences and Policy, CEU. PhD seminar. Budapest (Hungary), November 3, 2011.

Fuel poverty in Hungary. Assessing the co-benefits of residential energy efficiency.

Regional GFSE Meeting. The role of Renewable Energy and Energy Efficiency as a key issue for economic development. Vienna (Austria), April 28-29, 2011.

Energy efficiency as a tool for reducing energy poverty

Training session at the Hungarian National Development Agency (NFÜ). Budapest (Hungary), March 29, 2011.

Hungary's energy challenges in the spotlight. The role of energy efficiency in buildings.

Department of Environmental Sciences and Policy, CEU. PhD seminar. Budapest (Hungary), February 19, 2011.

Fuel poverty in Hungary. Measurements, experiences and policies.

IEA workshop: Evaluating the co-benefits of low-income energy-efficiency programmes. Dublin (Ireland), January 27-28, 2011.

Employment, energy security and fuel poverty implications of the large-scale, deep retrofitting of the Hungarian building stock.

8th JRC Workshop of Energy Efficiency in Buildings Moscow (Russia), September 2-3, 2010.

Employment Impacts of a Large-Scale Deep Building Energy Retrofit Programme in Hungary

Climate Strategy Workshop. Budapest (Hungary), November 17, 2010.

Analysis of Europe 2020 Strategy from the climate and energy policy perspective. Insights from the Hungarian case.

EcoCool'10 Conference. Budapest (Hungary), September 15-17, 2010.

Energy efficiency in buildings. Two key messages for policy-making.

Energiezirkel der Deutsch-Ungarischen Industrie- und Handelskammer. Budapest (Hungary), September 14, 2010.

Energiearmut in Ungarn und Energieeffizienz als Schlüssel zu ihrer Bewältigung

REKK workshop. Decarbonisation of the power sector (project launch workshop). Budapest (Hungary), July 1-2, 2010.

Fuel poverty in Hungary. Some insights from the domestic energy efficiency perspective.

Conference BUILD GREEN - Central & Eastern Europe. Budapest (Hungary), April 16, 2010.

Fuel poverty in Hungary. Some insights from the domestic energy efficiency perspective.

XI Conference on International Cooperation and Solidarity. Le Monde Diplomatique - University Jaume I Castellon (Spain), October 2007.

The economic impacts of climate change

CEU Environmental Sciences and Policy Dept. Seminar Series. Budapest (Hungary), July 2004.

Between greed and grievance: the economics and ecology of conflicts for resources. A review of the main theoretical frameworks.

CONAMA 8 - The summit of sustainable development. Madrid (Spain), November 2006.

The economic valuation of Spain's ecosystem assets from a geographical standpoint. Theoretical and methodological challenges

TEACHING EXPERIENCE

Central European University (CEU) - Budapest (Hungary)

Academic year 2011/2012: teaching assistantship for energy-related courses of the MSc Environmental Sciences and Policy (MS) and MSc Environmental Sciences, Policy and Management (MESPOM)

Academic year 2011/2012: guest lecture on fuel poverty and energy efficiency at the Business School (January 2011) and support in the supervision of one MSc thesis (April-July 2011)

Academic year 2009/2010: guest lecture in the UNDP-CEU summer course *Sustainable Human Development: From International Frameworks to Regional Policies* (July 2011)

Academic year 2008/2009: PhD teaching assistantship to the course *Energy challenges in the 21st century*

Autonomous University of Madrid (UAM) - Madrid (Spain)

2007 - 2009: guest lectures on the economic valuation of ecosystem services for the inter-university MSc Natural Protected Areas

UN Economic Commission for Latin American and the Caribbean (ECLAC) - Santiago (Chile)

December 2007. Assistant lecturer in charge of case studies for the course *Management and Valuation of the Environment and Natural Resources*

National University of Equatorial Guinea (UNGE) - Malabo (Equatorial Guinea)

Academic year 2005/2006. Appointed short-term lecturer of environmental economics for the BSc Environmental Science (June 2005), for which I also supervised two theses:

- Silvia Mope Esola: *Scope study on the Total Economic Value (TEV) of NP Pico Basilé*
- Antonio Micha Ondo: *Participatory Management in Equatorial Guinea: NP Monte Alén*

National University of Nicaragua (UNAN) - Leon (Nicaragua)

December 2005. Appointed short-term lecturer of environmental economics for the MSc Natural and Environmental Resources Management

University of Alcalá (UAH) - Madrid (Spain)

2003 - 2008. Lectures and seminars on environmental economics for undergraduate students of the faculty of Environmental Sciences and the faculty of Economics and Business Administration

GRANTS, AWARDS, COURSES and other RELEVANT EXPERIENCE

Grants

2009: 24,000 Euros PhD research scholarship awarded by the *Fundación Mutua Madrileña* (Madrid, Spain)

2008: approx. 24,000 Euros awarded by Central European University (CEU) as PhD stipend

Awards

2012: Central European University (CEU) Advanced Doctoral Student Award (1,300 USD)

Courses

May 2011: InCLuESEV summer school: Addressing equity and vulnerability in energy systems (Newcastle-upon-Tyne, UK)

Academic year 2010/2011: *Teaching in Higher Education 1: A Key Skills Training Course*. Curriculum Resource Centre (CRC) at Central European University (CEU) (Budapest, Hungary)

July 2009: UKERC Energy summer school 2009 (Brighton, UK)

Other relevant experience

2008: Technical advisor (on a voluntary basis) of the Spanish NGO MPDL [www.mpdl.org] for an agricultural project in Bosnia-Herzegovina (Popovo Polje - Trebinje)

PROFESSIONAL AFFILIATIONS

Spanish Association of Environmental Sciences - Asociación de Ciencias Ambientales [<http://www.cienciasambientales.org.es>] - Madrid (Spain):

- Vice-president (since 2009)
- President (2006-2008)
- Responsible for sending Spanish volunteers to international workcamps organised by Mladi Istrazhivaci Srbije - Young Researchers of Serbia [Serbia and Montenegro]: 2003 - 2007
- Co-organiser of the Conference for Young Environmental Scientists and Professionals organised by ACA in 2003, 2004 and 2007.

LANGUAGES

Spanish: mother tongue

English: proficient

Russian: advanced

6 annual courses at the Centre for International Languages at the University of Alcalá (Madrid) between 2002 and 2008 + 2 stays in Russia (St. Petersburg, Irkutsk) in 2005 and 2006

German: conversational

Courses taken between 2009 and 2012 at Central European University (CEU)

Hungarian: conversational

Course and private lessons taken between 2002 and 2002; active user of the language in informal contexts in 2001-2002 and 2008-2012

REFEREES

Dr. Diana Ürge-Vorsatz

Professor and Director of Center for Climate Change and Sustainable Energy Policies (3CSEP)
Central European University (CEU)

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Dr. Diego Azqueta Oyarzun

University professor

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