Laura Elísabet Gonzalo
Zaragoza, 13 May 1984
Degree in Geography
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RESEARCH EXPERIENCE

Laura has a degree in Geography from the University of Zaragoza and is currently doing her PhD at the University of Lleida (Department of Environment and Soil Sciences). Following her degree, she worked as a research assistant at the University of Zaragoza in investigation projects involving: (a) environmental impact assessment of human activities on fluvial systems (e.g. hydroelectric power plants); (b) environmental evaluation of the fluvial systems and measurements on river restoration; and (c) sediment yield in burnt areas. She has participated in the development of the Hydrogeomorphological Index (IHG) and is a founder member of the Iberian Centre for Fluvial Restoration (*Centro Ibérico de Restauración Fluvial*, CIREF). She was part of the committee preparing the new Geography Degree Plan at the University of Zaragoza in 2009, and she has collaborated with the Council of Zaragoza and the Naturalist Association of Aragón (ANSAR), working as an environmental monitor.
In 2009 Laura joined the RIUS group as a fellow researcher on an eco-hydrological/eco-geomorphological project supported by an agreement between the University of Lleida and the Ebro Basin Water Authorities. This study about the adaptation and impacts of macrophyte at the Riba-roja dam has required the implementation of geomorphological methods in fieldwork (e.g.: geolocated sonar, gravel bed sampler) and computerized tools (e.g.: SonarViewe©, WinXSPro©, Hawts tool). As a member of RIUS, she has collaborated in research projects regarding the calculation of sediment transport in the lower Ebro and the interactions between macroinvertebrates and bedload transport.
Laura is presently pursuing her PhD, under the supervision of Dr. Ramon Batalla and Dr. Damià Vericat, as a team member of the Flushing Flow project, whose aim is to experiment and develop a cascade flushing flow programme for the hydrosedimentary restoration of the lower Ebro and its major tributaries. Her current training also includes attending the course of *Specialist in GIS tools applied to the analysis and estimation of river flood*.
Laura participate as an organization assistant in the 2010 Spanish Society for Geomorphology biannual meeting, which is held at the Forest Technology Center of Catalonia (September, 2010).

RESEARCH PROJECTS AND WORK EXPERIENCE

PROJECT TITLE: Desarrollo y experimentación de un sistema de crecidas de mantenimiento en cascada con base en criterios físicos y económicos para la mejora hidrosedimentaria del bajo Ebro y sus principales afluentes (SICMEC) (CGL2009-09770 -subprograma BTE). FINANCIAL ENTITY: CICYT - Spanish Ministry of Science and Innovation. LENGHT: 2009-2012. PRINCIPAL INVESTIGATOR: Dr. Ramon J. Batalla

PROJECT TITLE: "*Estudio de las características morfosedimentarias del tramo bajo del Ebro en relación a las poblaciones de macrófitos*". FINANTIAL ENTITY: Agreement between the University of Lleida and the Confederación Hidrográfica del Ebro. LENGTH: 2010 PRINCIPAL INVESTIGATOR: Dr. Ramon J. Batalla Villanueva and Dr. Damià Vericat.

PROJECT TITLE: IWRM-NET Mejorando la aplicación de los resultados de la investigación y de las experiencias de casos a las respuestas ecológicas de la degradación y rehabilitación hidromorfológicas (FORECASTER). FINANTIAL ENTITY: Ministry of Science and Innovation. LENGTH: 2008-2009. PRINCIPAL INVESTIGATOR: Diego García de Jalón

PROJECT TITLE: "*Geomorfología y cambio global".* FINANTIAL ENTITY: Consejo Superior de Investigaciones Cientríficas (CSIC). LENGTH: 2008-2009. PRINCIPAL INVESTIGATOR: Dr. Maite Echeverría Arnedo.

PROJECT TITLE: "*Efectos de las minicentrales hidroeléctricas en los sistemas fluviales de los ríos Aragón y Arga (tramos medio y bajo: diagnóstico, tendencias y propuestas de gestión".* FINANTIAL ENTITY: Ibarra, J. y asociados. LENGTH: 2008-2009. PRINCIPAL INVESTIGATOR: Dr. Alfredo Ollero Ojeda.

PROJECT TITLE: "*Evaluación de procesos de dinámica fluvial para la restauración del río Aragón en Caparroso".* FINANTIAL ENTITY: Gestión Ambiental Viveros y Repoblaciones de Navarra. LENGTH: 2008. PRINCIPAL INVESTIGATOR: Dr. Alfredo Ollero Ojeda.

PROJECT TITLE: "*Diseño, aplicación y difusión de estrategias ECTS para la mejora docente en Geografía".* FINANTIAL ENTITY: European Higher Education Area. LENGTH: 2006/07. PRINCIPAL INVESTIGATOR: Dr. Ana María Escalona.

WORK EXPERIENCE: Environmental monitor for the Project *Rincones al natural*. FINANTIAL ENTITY: Council of Zaragoza. LENGTH: 2009. PRINCIPAL COORDINATOR: Olga Conde.

WORK EXPERIENCE: Environmental monitor for the Project *Programa Medioambiental Voluntarios sobre la calidad de cauces y riberas*. FINANTIAL ENTITY: Naturalist Association of (ANSAR). LENGTH: 2008. PRINCIPAL COORDINATOR: Mariano Mérida.

PUBLICATIONS

Ollero, A., Gonzalo, L.E., Ibisate, A., Acín, V., Ballarín, D., Díaz, E., Domenech, S., Horacio, J., Gimeno, M., Granado, D., Mora, D., Sánchez, M. (2010): The IHG index for hydromorphological quality assessment: methodology and applications. *Limnetica* (in press).

Gonzalo, L.E., Ballarín, D., Ibisate, A., Ollero, A. (2010): Impacto geomorfológico de actuaciones en cauces fluviales de La Rioja. *Zubía* (in review).

Gonzalo, L.E., Batalla, R.J., Vericat, D. (2010): Control del exceso de macrófitos en el bajo Ebro con crecidas de mantenimiento. *Trabajos de Geomorfología en España* 2008-2010.

Ollero, A., Gonzalo, L.E., Ibisate, A., Acín, V., Ballarín, D., Díaz, Horacio, J., Mora, D., Sanchez, M. (2010): Una Metodología de evaluación hidrogeomorfológica de sistemas fluviales: el índice IGH. *Trabajos de Geomorfología en España* 2008-2010.