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## Academic Training

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- Phd Project. PANGEA Research Group. **The glaciers of the Pyrenees: Glaciology and glacial dynamic in the context of global change.** University of the Basque Contry. 2010-2013. Fieldwork using Laser Scanner, Ground Penetrating Radar, Differential GPS, Arcmap. Study site: Maladeta, Infiernos, Posets, Monte Perdido and Vignemale massifs.
- Research Project: **The Little Ice Age in the Fuegian Andes. Geomorphological reconstruction of the last historic glaciation.** Dirección de Recursos Hídricos. Gobierno de Tierra del Fuego (Argentinean Patagonia). 2008-2009.
- **Msc Managing Sustainable Mountain Development.** University of Highlands and Islands. Fort William, Scotland. 2007-2008.
- **C.A.P (Teaching Qualification Certificate).** 2008
- **Postgraduate Research (Diploma of advanced Studies):** Morphology and glacial evolution in the Aralar valley. 2006-2008
- **Degree in Geography.** Universidad del País Vasco. 2005
- *Sicue-Séneca Program/fellowship.* **Universidad Autónoma de Madrid.** 2004-2005
- *Erasmus-Sócrates Program/fellowship.* **University of Newcastle.** 2003-2004

## Academic Activities

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- Research stay: **Glaciology 825** course **University Centre in Svalbard.** Svalbard (Arctic Norway). Project leader: Doug Benn. 2 months. 2013.
- Research stay: **Terrestrial Laser Scanning.** TUG Graz. Central Austrian Alps. Project leaders: Michael Avian and Victor Kaufmann. 1 month. 2013.
- **Snow Hydrology Course:** An Introduction to the Physical Processes of the Snowpack. Instituto Pirenaico de Ecología / Colorado State University. 2012.
- Communication: "Using Geomatic techniques for glacier monitoring in the Pyrenees. Workshop on **Automated Weather Systems on Glaciers.** Switzerland. 2011.
- University Research visit. University of Extremadura. **Laser Scanner / DGPS.** 2010
- Symposium: Glaciers, Relief and climate. Sobrarbe Geopark. Pyrenees. 2010.
- **I. Geodiversity Workshop,** Basque Country. 2010.
- Alpine Geography course .Enrique Serrano. French Alps (Valais). UVA. 2007

## Work Experience

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- **Research Personal and Glaciology Field Assistant.** Instituto Pirenaico de Ecología. CSIC. April 2014.
- **Professor.** UNED (Universidad Nacional de Educación a Distancia) Environmental Sciences and Geography modules. 2012-2014
- **Associate Professor.** University of the Basque Country. Geomorphology module.
- **Glaciology and hydrology internship.** Dirección de Recursos Hídricos. Gobierno de Tierra del Fuego (Argentina). 2008-2009
  - Fieldwork using Differential GPS, Ground Penetrating Radar and Automated Weather Stations in the glaciers of the Fuegian Andes (Patagonia).
- Mountain guide in the High Atlas Mountains (Morocco). Alventus Travel 2014.
- Mountain guide in Dolomites. Alventus Travel 2013
- Mountain guide in Austrian Tirol with Alventus Travel. 2008
- Mountain guide in Madeira with Alventus Travel. 2007
- Mountain guide Assistant East-Africa with Añosluz Travel 2006.
- Trekking Guide with Estadio Foundation. Basque Country. 2011-2013. .
- Organization and guiding of Cultural and Environmental excursions to the Urdaibai Biosphere Reserve. Estadio Foundation.
- Guided Scientific Fieldwork campaigns for international students in the Pyrenees: Topographic measurements in the Pyrenean glaciers. Summers 2010, 2011 and 2012. PANGEA Research group.
- Guided Scientific fieldtrips for the University of the Basque Country: Glacial Evolution in Aralar Range (Gipuzkoa) and Glacial Geomorphology in Alto Ason (Cantabria).
- Delivery of mountain skills courses with Gaztetxoak Training School: navigation, base-camp organization, environmental education and wilderness first-aid courses. 2005
- Audiovisual Technician at Cultural centre (Ignacio Aldecoa). 2006 Xenda
- University advise service. UPV /EHU. 2002

## Publications and Collaborations

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- Rico, I. 2011. Glacial Morphology and Evolution in the Arritzaga Valley (Aralar Range, Gipuzkoa). *Rev. C. & G.*, 25 (1-2), 83-104
- Rico, I. 2011. *Un glaciar en la sierra de Aralar.* In: Los grupos de cazadores recolectores en la prehistoria de Gipuzkoa. Ehiztari bitzaileren taldeak Gipuzkuako historiaurrean. Eds: Arrizabalaga, A., Iriarte, M.J. Arqueología 0.1. Diputación foral de Gipuzkoa. 27-29.
- Rico, I., Serrano, E., Del Rio, M., Sanjosé, J.J., Tejado Ramos, J.J. 2012. Estructura y dinámica actual del glaciar de La Paul (Pirineos): Aplicación de Laser Escaner y Georadar. XII Reunión Nacional de Geomorfología. Santander 2012.
- Del Rio, M., Serrano, E., Rico, I., Tejado, J.J. 2012. GPR Prospection in the Ossoue Glacier. 14th International Conference on Ground Penetrating Radar (GPR) June 4-8, 2012, Shanghai, China @ ISBN 978-1-4673-2663-6
- Del Rio, M., Rico, I., Serrano, E., Tejado, J.J. 2012. Applying GPR and Laser Scanner Techniques to Monitoring the Ossoue Glacier (Pyrenees). *In press.*
- Sanjosé, J.J., Serrano, E., Matías, J., Berenguer, F., Rico, I. 2012. La aplicación de técnicas geomáticas al estudio de procesos geomorfológicos en la alta montaña (Pirineos y Picos de Europa). XII Reunión Nacional de Geomorfología. Santander 2012.
- Serrano, E., Sanjosé, J.J., González Trueba, J.J., Del Rio, M., Ruiz, P., Atkinson, A., Martín, M., Rico, I., Fernandez, A. 2010. Análisis y control de indicadores geomorfológicos en el parque nacional de Picos de Europa. *Proyectos de investigación en parques nacionales: 2007-2010*, 7-32.
- Berenguer, F., Blasco, J.J., Atkinson, A., De Matias, J., Serrano, E., Rico, E., 2013, Geomatics techniques applied to the rock glaciers, glaciers and ice-patches in Spain (1991-2012).
- DVD Geomorphology in images: La diversidad geomorfológica de la tierra en 1000 imágenes. Sociedad Española de Geomorfología. ISBN: 978-84-612-6185-7.

- Lecture: International day of Mountains (11/12/08). UPV / EHU
- Lecture: Mendi Kultur Symposium UPV/EHU 2012. Patagonia: "Research and climbing in the South of the World".
- Organization of the Symposium: Antarctica. 100 years of Exploration and Research. University of the Basque Country. Autumn 2012.

## Associated Scientific Projects

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- Criosfera y cambio global en espacios naturales protegidos: control de procesos geomorfológicos asociados a la nieve y el hielo como geindicadores de cambio ambiental en el Parque Nacional Picos de Europa, OAPN 053/2010. Ministerio de Ciencia e Innovación.
- La criosfera como geindicadora ambiental y del cambio climático: procesos de ladera asociados al hielo y la nieve en las montañas del norte peninsular (Pirineos-Cantábrica), CGL- 2010-19729. Ministerio de Ciencia e Innovación.
- El glaciar de Monte Perdido: Monitorización y estudio de su dinámica actual y procesos criosféricos asociados como indicadores del cambio global. Proyectos de investigación Parques Nacionales. Investigador Principal: Juan Ignacio López Moreno. IPE. CSIC.
- The instability of the Vignemale North Face: Permafrost change control as ge indicators of global change. Instituto Pirenaico de Ecología. University of the Basque Country. IPE/UPV

## GIS training and experience

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- Geography Information Systems course. ArcView 9. UPV / EHU.
- Degree Modules: Sistemas de Informacion Geografica (Universidad del Pais Vasco); Sistemas de Informacion Geográfica (Universidad Autónoma Madrid).
- Master Modules: Geography Information Systems applied to Mountain Areas (University of Highlands and Islands. UHI)
- Project: The Little Ice Age in the Fuegian Andes. Geomorphological reconstruction of the last historic glaciations. Use of GIS (Arcmap) for glacier mapping and cartography.
- Project: The glaciers of the Pyrenees: Glaciology and glacial dynamic in the context of global change. Use of GIS (Arcmap 10.2) for glacier evolution mapping, Laser Scanner data and DGPS data.
- Project: Coastal evolution in Lekeitio: GIS Data processing and output.
- Project: Archaeological Scanning in Irikaitz (Guipuzcoa). GIS Data processing and output.

## Languages

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- **English:** Writing: High. Reading: High. Speaking: High. (Toptulte C1 level)
- **Basque:** Writing: High. Reading: High. Speaking: High. (C1, Advance Level)
- **French:** Writing: Elemental. Reading: Elemental. Speaking: Elemental

## Member of Scientific Societies

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- Research Group **PANGEA** (Natural Heritage and Applied Geography)
- Research Group IT622-13 University of the Basque Country
- **IGS** (International Glaciological Society)
- **APECS** (Association of Polar Early Career Scientists)
- **PYRN** (Permafrost Young Researchers Network)

## Personal Skills and other Training

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- Public relations, communication skills and group leading skills.

- UIAGM recognized Level 1 qualification. Currently taking **High Mountain Guide** Level 2.
- **First Aid Wilderness International** Qualification course: First Aid, Rescue management and Rescue logistics skill applied to remote and mountainous areas. 2011.
- Practice of alpinism for 17 years. Ice and Ice climbing, backcountry ski, alpinism: Grand Courses in the Alps, Patagonia (Two new routes), Yosemite and Scotland. High Pyreneean Route.
- Selected for the Young Spanish Alpinist STAGE 2010 in Mont-Blanc. GAME / FEDME
- Snow Mobile Driving and Polar Bear Shooting Safety Course (Svalbard)
- Cross Country Racing with the Araba Team. Spanish finals in 1996
- Freeride ski experience in Pyrenees and the Arctic
- Diving: Open Water Diver Qualification (PADI). Diving in Madeira, Zanzibar and Canary I
- Sailing skills gained while winter sailing trip in Darwin Range in Patagonia.
- Photography: Exhibitions, Advanced Photography courses, two regional and one national prizes.