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## PERSONAL INFORMATION

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<b>Home address</b>	Rafael Campalans 62, 2º2ª	<b>Place of birth</b>	Boyacá - Colombia
<b>Postal code</b>	08903	<b>Date of birth</b>	18-03-1978
<b>City – Country</b>	Barcelona - Spain	<b>Gender</b>	Female
<b>Telephone</b>	(34) 934 473 795	<b>Marital status</b>	Single
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## RESEARCH INTERESTS

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My main research interests lie in the field of Kimberlites, mineral deposits, and regional geology. As a second level of interests are economic geology, sustainable development, and other fields of geology as sedimentology, stratigraphy, and geohazards.

## CURRENT POSITION

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<b>Current post</b>	Researcher – F.I. Grant	<b>Address</b>	Martí i Franquès, s/n
<b>Institution</b>	Universitat de Barcelona	<b>Postal code</b>	08028
<b>Faculty</b>	Geology	<b>City - Country</b>	Barcelona - Spain
<b>Department</b>	C., Min. and Mineral Deposits	<b>Telephone</b>	(34) 934 021 342
<b>Research group</b>	Mineral Resources	<b>E-mail</b>	sandra_robles@ub.edu

## EDUCATION

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2008	<b>In progress PhD Thesis. Regional Study of Kimberlites in Angola.</b> Doctoral Program in Earth Sciences. Crystallography, Mineralogy and Mineral Deposits Department. Faculty of Geology. University of Barcelona, Spain.
2007	<b>DEA – Advanced Studies Diploma</b> Doctoral Program in Earth Sciences. Crystallography, Mineralogy and Mineral Deposits Department. Faculty of Geology. University of Barcelona, Spain.
2002	<b>Petroleum Geology Diploma</b> Universidad Eafit (Bogotá D.C., Colombia).
2001	<b>Bachelor in Geology</b> Universidad Nacional de Colombia (Bogotá D.C., Colombia) Thesis: "FACIES ANALYSIS OF THE TOP UPPER CRETACEOUS TOWARD NORTH OF UPPER MAGDALENA VALLEY, BETWEEN NARIÑO AND CARMEN DE APICALA TOWN, TOLIMA, COLOMBIA".

## RELEVANT COURSES

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2006	<b>Subjects of the Doctoral Program in Earth Sciences.</b> Crystallography, Mineralogy and Mineral Deposits Department. Faculty of Geology. University of Barcelona, Spain.
2005	<b>Clastic Reservoir Characterization Field Trip.</b> Thomas A. Ryer The Aries Group, LLC. Occidental Oil and Gas Corporation. Sept. 11-17. Utah, U.S.A.
2005	<b>Integrated Interpretation in Landmark.</b> Cesar Mantilla. Landmark. August. Bogotá D.C., Colombia.

- 2005 **2DMove course.** Eleine Vence. Occidental de Colombia. Jun. 27- Jul. 1, Bogotá D.C., Colombia.
- 2005 **Clastic Reservoir Characterization Class/Workshop.** Thomas A. Ryer & Tim Cross. Occidental Oil and Gas Corporation. May 16-21. Quito, Ecuador.
- 2005 **ArcGIS course.** Woolery Kathryn. Occidental de Colombia, Inc. March 29 to April 1. Bogotá D.C., Colombia.
- 2004 **Integrated Reservoir Analysis, Predicting Reservoir Performance through Collaboration.** Dan Hartmann & John Farina. Occidental Oil and Gas Corporation. June 23-30. Bogotá D.C., Colombia.
- 2004 **Problem Framing and Analysis.** Occidental de Colombia, Inc. June 15-18. Bogotá D.C., Colombia.
- 2004 **Statistics course.** Universidad Nacional de Colombia. June 1-3. Bogotá D.C., Colombia.
- 2004 **Risk Analysis and Management of Petroleum Exploration Ventures.** Pete R. Rose. May 18-20. Bogotá D.C., Colombia.
- 2004 **Paleomagnetism Course.** Concepts and applications in geology for the North of South America. Corporación Geológica ARES. February 18 to 20, Bogotá D.C., February 21 field trip Boyacá, Colombia.
- 2003 **Modern and Ancient Clastic Tidal Estuary and Coastal Sedimentary Environments and Lithofacies, Willapa Bay, Washington – Modern Fluvial Sedimentary Environments, Upper Columbia and Kootenay Rivers, B.C.** Peter Putnam Petrel Robertson Ltd. November 28. Bogotá D.C., Colombia.
- 2003 **Intermediate – advanced GeoGraphix course.** Software for the analysis and interpretation of geological and geophysical data. Study of specific cases in research projects. Occidental de Colombia, Inc. September 8 to 12. Bogotá D.C., Colombia.
- 2003 **Petrel Basic course.** Software for analysis, interpretation and simulation of geological and geophysical data. Occidental de Colombia, Inc. August 25, Bogotá D.C., Colombia.
- 2003 **Production Geosciences Short course.** David Desautels Occidental Oil and Gas Corporation. January 30. Bogotá D.C., Colombia.
- 2002 **Financial evaluation of energetic projects.** ACGGP (Asociación Colombiana de Geólogos y Geofísicos del Petróleo). May 14-15. Bogotá D.C., Colombia.
- 2002 **Intermediate – advanced Excel course, its application to geology and specifically in exploration.** Occidental de Colombia, Inc. May 20-24. Bogotá D.C., Colombia.
- 2002 **Basic training in GeoGraphix.** Occidental de Colombia, Inc. August 13 to 16. Bogotá D.C., Colombia.
- 2001 **Analysis of thrust belt fold and application in the petroleum industry.** ACGGP (Asociación Colombiana de Geólogos y Geofísicos del Petróleo). May 23. Bogotá D.C., Colombia.
- 2000 **Field Trip course, Villa de Leyva, Mega-Regional Concepts for the understanding of local geological events.** ACGGP (Asociación Colombiana de Geólogos y Geofísicos del Petróleo). September 30 to October 2. Boyacá, Colombia.
- 1998 **Systems course.** Universidad Nacional de Colombia, Bogotá D.C., Colombia.

## LANGUAGES

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Language	Type	Listening	Speaking	Reading	Writing
Spanish	first-native	excellent	excellent	excellent	excellent
English	second	excellent	excellent	excellent	excellent
French	third	basic	basic	basic	basic
Catalan	fourth	basic	basic	basic	basic

## PROFESSIONAL EXPERIENCE

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**2006** **Journal Acta Geologica (Barcelona, España)**  
**Secretariat Support**

Helping in activities of edition and publication of this journal in paper as well as digital (<http://www.geologica-acta.com:8080/geoacta/HomeAC.do>).

**2001-2005 Occidental de Colombia, Inc. (Occidental Oil and Gas Corporation)**

Exploration Geologist

Projects:

- Sinú Basin (Colombia). Geological evaluation of the Alcatraz Block (2005).
- Lower Magdalena Basin (Colombia). Geological evaluation of the Ligia Block (2005).
- Wellsite for Rondón N-1, Cravo Norte - Caño Limón Field, Llanos Basin, Colombia (2005).
- Middle Magdalena Basin (Colombia). Evaluating the basin to identify prospective areas based on seismic interpretation and well data. A sound model for the basin in order to understand the geological evolution of the basin, to identify prospective areas in this zone and make a decision about getting or release the area. In addition, to participate actively in the Exploration Department and present results to manager to make business decisions (2004).
- Wellsite for Jiba-2, Cravo Norte - Caño Limón Field, Llanos Basin, Colombia (2004).
- Joint study with Petrobras, evaluating an area to identify prospects in the Llanos Basin to outline a TEA (Technical Evaluation Area). Finally a lease was defined.
- Regional Study for the Llanos Basin of Colombia, identification of prospective areas based on well data, core data, seismic data, etc. Well log analysis e interpretation, cross sections, mapping (sand/shale distribution, electrofacies maps etc), facies analysis, core description and sedimentological study (working with Peter Putnam-Petrel Robertson Consulting Ltd.), field analogs analysis. A sound model for the basin in order to understand the geological evolution of the basin, characterize the presence, quality and distribution of the main reservoirs and seals in the basin (2003-2004).
- Evaluation of Foothills-Foreland area of the Llanos Basin (Southwest). Geological evaluation of Alicante, Aguila and Pachaquiario Blocks (2003).
- Evaluation of potentiality of Rubiales field, southern part of Llanos Basin (2002).
- Evaluation of Cocodrilos, Caimanes y Gavilanes Blocks in the Central Llanos Basin (2001).
- Regional Study of the Upper Magdalena Valley. Well interpretation and mapping (2001).
- Offshore Study. Helping in the evaluation of a block in the offshore of Colombia (2001).

**2000-2001 Occidental de Colombia, Inc.**

**Training student**

Projects:

- Exploration Sirirí Block (helping in the reports of Gibraltar Well).
- Upper Magdalena Basin Project. Gathering data.
- San Gabriel Block - Geologic Evaluation of the block (2000).
- Assisting exploration projects. Siriri Block - Gibraltar 1 well, describing samples, helping with final reports etc. (2000).
- Seismic Study of Central Llanos Basin. Collaborating with the seismic project of Central Llanos Basin (2000).

**2000-2001 Occidental de Colombia, Inc.**

**Thesis student**

Thesis: "Facies analysis of the Upper Cretaceous Formations in the Upper Magdalena Valley area, between Nariño and Carmen de Apicalá, (Tolima-Colombia)" (2002). Field work (1 month), sedimentological description, analysis e interpretation of thin sections and hand samples, well analysis and seismic analysis.

**1999 Universidad Nacional de Colombia. Geosciences Department.**

Teacher Assistant of Sedimentology and Stratigraphy

Working as a teacher assistant in the petrography laboratory, field trips and classes during the II semester of 1999.

**1998-1999 Universidad Nacional de Colombia, Inc. Geosciences Department.**

Teacher Assistant of Sedimentology

Helping in the petrography laboratory, organizing and identifying thin sections, during the first and second semester of 1998 and the first semester of 1999.

**1998 JVC Ltda.**

Core description

Petrographic and sedimentological description of cores, Taraira - Colombia, during two months.

**1997 Bioss Ltda.**

Cartography

Drawing maps of the top of the Paleozoic sequence in the Llanos Basin of Colombia, during a month at the end of 1997.

## MERITS

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- F.I. - Predoctoral grant for new researchers sponsored by the Education and Universities Department of the Generality of Catalonia – “Generalitat de Catalunya” and European Social Fund, call 2007.
- Substitute secretary of the Colombian Association of Geologists and Geophysical of the Petroleum (ACGGP), Bogotá D.C. (2004).
- Graduated as the best student in the Faculty of Sciences, Universidad Nacional de Colombia, Bogotá D.C. (2001).
- Bachelor Thesis financed by Occidental de Colombia, Inc.
- Totally forgiven loan-grant of the National University because of the academic qualification.
- During the whole career, being part of the twenty percent of the best students in the Department of Geosciences, Science Faculty, Universidad Nacional de Colombia, Bogotá D.C.
- Exception of paying enrolls in I semester, 1997 (“Matrícula de Honor”).
- The Second best student of Geosciences Department in II semester, 1996.
- The best student of Geosciences Department in II semester, 1995.

## PUBLICATIONS

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**PRICE, M. T., 2007.** La Roca Ornamental. El libro de consulta completo. Original version in English, translated by Robles C., S. E., Melgarejo D., J. C., Campeny, M., Alfonso, P., Barcelona, 288 pp.

## TECHNICAL REPORTS

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**Melgarejo D., J.C.; García-Vallès, M.T., Robles C., S.E., Deu, A., Baró, L., 2007.** Inventari de recursos estratègics d'àrids en una franja de 20 quilòmetres de les línies fèrries de Catalunya, Barcelona, Generalitat de Catalunya, Departament d'Indústria, Comerç i Turisme, Direcció General d'Energia i Mines – Universitat de Barcelona, 150 pp.

**Robles C., S. E., 2004.** Annual Technical Report for Ministry of Minas about exploratory blocks, Colombia, Bogotá, Exploration Department - Occidental de Colombia, Inc., 30 pp.

**Robles C., S. E., 2003.** Annual Technical Report for Ministry of Minas about exploratory blocks, Colombia, Bogotá, Exploration Department - Occidental de Colombia, Inc. 40 pp.

**Robles C., S. E., 2002.** Annual Technical Report for Ministry of Minas about exploratory blocks, Colombia, Bogotá, Exploration Department - Occidental de Colombia, Inc., 30 pp.

**Robles C., S. E., 2001.** Annual Technical Reports for Ministry of Minas about exploratory blocks, Colombia, Bogotá, Exploration Department - Occidental de Colombia, Inc., 30 pp.

## TECHNICAL PRESENTATIONS

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2001-2005 Periodically presenting results to managers in order to add data to make business decisions for the exploratory programs in Colombia.

2005 RAT (Risk Assessment Team) review, Alcatraz Block, Sinu Basin, Bogotá D.C.

2005 RAT (Risk Assessment Team) review, Ligia Block, Lower Magdalena Basin, Bogotá D.C.

2004 RAT (Risk Assessment Team) review, Middle Magdalena Basin, Bogotá D.C.

2003 Regional Llanos Basin Analysis, Houston-Texas, U.S.A.

2002 RAT (Risk Assessment Team) review, Rubiales Field, Bogotá D.C.

2001 RAT (Risk Assessment Team) review, Upper Magdalena Basin, Bogotá D.C.

## EVENTS

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- 2006        **II International Congress Education and Training on Disaster Prevention.**  
Escuela Nacional de Protección Civil. September 26 to 28, Madrid (España).
- 2005        **Petrophysical seminar.** Carlos Haro. Occidental Oil and Gas Corporation. April 4-8.  
Bogotá D.C., Colombia.
- 2002        **Second Technical Convention of the ACGGP. Geology and Petroleum in Colombia.** Frontiers exploration. Asociación Colombiana de Geólogos y Geofísicos de Colombia (Bogotá D.C., Colombia)
- 1999        **Bioethical and Biodiversity Seminar.**  
Universidad Nacional de Colombia (Bogotá D.C., Colombia)
- 1999        **Electronic Microscopy Seminar**  
Asociación Nacional de Microscopía (Bogotá D.C., Colombia)

## PROGRAMS EXPERIENCE AND SKILLS

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- Experience working with Landmark. Stratworks, Seisworks, Z-Map (Correlation and mapping).
- Experience working in GeoGraphix (well interpretation, cross sections, mapping, petrophysical calculation, etc).
- ArcGIS, ArcView (mapping, edition and montages).
- Corel, (edition and drawing).
- 2d-Move, (correlation and restauration).
- Crystal Ball, (statistic prospect analysis, running economics).
- Stereonet, (structural diagrams).
- Geotrig, (structural).
- Microsoft Office tools in geology (Excel intermediate-advance, PowerPoint for presentations).
- Experience working with database (Panagon, Procite, others).