

MIREIA BARTRONS

Aquatic Ecology Group. UVic-UCC
Campus Torre dels Frares. Carrer de la Laura, 13, 08500 Vic (Barcelona)

PROFESSIONAL EXPERIENCE

- 2015–present Associate Professor, Universitat de Vic - Universitat Central de Catalunya (UVIC-UCC)
- 2014-2015 Junior research associate at CREAM and junior coordinator of ERC-Synergy, IMBALANCE-P project
- 2013-2014 Lecturer professor, Universitat de Vic - Universitat Central de Catalunya (UVIC-UCC)
- 2010-2013 Post-doctoral fellow. Center for Limnology, University of Wisconsin – Madison (UW-M). Advisor: Anthony R. Ives and M. Jake Vander Zanden
- 2009-2010 Post-doctoral Fellow, GRACCIE (European Project). Center for Advanced Studies of Blanes (CEAB) - Spanish Council for Scientific Research (CSIC). Advisor: Jordi Catalan and Emilio Casamayor

EDUCATION

Ph.D. Biology, University of Barcelona, 19/10/2009

Thesis: Food web bioaccumulation of halogenated compounds in high mountain lake food webs. Advisor: Jordi Catalan, Co-advisor: Joan O. Grimalt. Committee: Kevin C. Jones, Isabel Muñoz and Barend van Drooge. Qualification: Excellent Cum Laude

PhD thesis award by the Iberian Society of Limnology (best PhD during the Biennial 2008-2010)

Ph. D. research stages:

- University of Alberta (Canada), Ph.D. research stage. N and P limitation in alpine ponds (Banff National Park, Canadian Rocky Mountains). 02/06/2008–13/08/2008.
Responsible researcher: Rolf Vinebrooke
- Charles University (Prague), Ph.D. research stage. Food web sampling in high mountain lakes from the Tatra Mountains (Slovakia-Poland). EUROPLIMPACS project. September 2004 and September 2005.
Responsible researcher: Evzen Stuchlik

M.Sc. Fundamental and Applied Ecology, University of Barcelona, 26/09/2006

Thesis: Altitudinal variation in the isotopic signal of carbon and nitrogen in Pyrenean lake food web. Advisor: Jordi Catalan. Committee: Narcís Prat, Isabel Muñoz and Xavier Sanz

B.S. Biology, University of Barcelona, 31/01/2004

Collaborations and undergraduate experience in research Departments:

- ERASMUS Grant at METLA and University of Helsinki (01/09/2003-10/02/2004).
- CREAF – UAB, ATEAM project (01/01/2003-31/07/2003)
- Ecology Department, Biology Faculty - UB (01/07/2002-15/08/2002)
- Physiology Department, Medicine Faculty – UB (01/07/2001-31/12/2001)
- Ecology Department, Biology Faculty – UB, EMERGE project (01/07/2000-15/08/2000)

MANAGEMENT

- 2014-2015 Junior Coordinator of ERC-Synergy Grant 610028: IMBALANCE-P. *Effects of phosphorus limitations on Life, Earth system and Society*
- 2015-present Member of the Studies Council of UVIC-UCC

PUBLICATIONS

Refereed publications:

26. Wang, W., C. Zeng, J. Sardans, D. Zeng, C. Wang, M. Bartrons, J. Peñuelas. *Species-specific impacts of plant invasive success on soil carbon accumulation and nutrient retention in the Minjiang River tidal estuarine wetlands of China*. **Plant and Soil**. In revision.
25. Wang, W., C. Zeng, J. Sardans, D. Zeng, C. Wang, M. Bartrons, J. Peñuelas. *Spatial and temporal trends of organic pollutants in vegetation from remote and rural areas*. **Environmental Research Letters**. In revision (reference number: ERL-101947).
24. M. Bartrons, J. Catalan, J. Peñuelas. *Spatial and temporal trends of organic pollutants in vegetation from remote and rural areas*. **Proceedings of the National Academy of Sciences of the United States of America**. In revision (reference number: 2015-17120)
23. Fernández-Martínez, M., S. Vicca, I. A. Janssens, P. Ciais, M. Obersteiner, M. Bartrons, J. Sardans, A. Verger, J. G. Canadell, F. Chevallier, X. Wang, C. Bernhofer, P.S. Curtis, D. Gianelle, T. Grünwald, B. Heinesch, A. Ibrom, A. Knohl, T. Laurila, B.E. Law, J.M. Limousin, B. Longdoz, D. Loustau, I. Mammarella, G. Matteucci, R.K. Monson, L. Montagnani, E.J. Moors, J.W. Munger, D. Papale, S.L. Piao, J. Peñuelas. *Trends in CO₂ and atmospheric deposition are changing land carbon sinks*. **Nature Climate Change**. In revision (reference number: NCLIM-15091424)
22. Wang, W., J. Sardans, C. Tong, C. Wang, L. Ouyang, M. Bartrons, J. Peñuelas. *Typhoon enhancement of N and P release from litter and changes in the litter N:P ratio in a subtropical tidal wetland*. **Environmental Research Letters**. In revision (reference number: ERL-101592.R1)
21. Sánchez-Montoya, M., A. Pastor, I. Aristi, A. I. del Arco, M. Antón-Pardo, M. Bartrons, C. Ruíz, M. J. Feio, B. Gallardo, E. Chappuis, N. Catalán. 2016. *Women in limnology in the Iberian Peninsula: biases, barriers and recommendations*. **Limnetica**. In Press
20. Peñuelas, J., M. Bartrons, J. Llusia, I. Filella. 2015. *Sensing the energetic status of plants and ecosystems*. **Trends in Plant Science**. 20(9):528-530
19. Wang, W., D. Y. F. Lai, J. Sandans, C. Wang, A. Datta, T. Pan, C. Zeng, M. Bartrons, J. Peñuelas. 2015. *Rice straw incorporation affects global warming potential differently in early vs late cropping seasons in southeastern China*. **Field Crops Research**. 181:42-51
18. Bartrons, M., A. Einarsson, R. L. G. Nobre, C. M. Herren, K. C. Webert, S. Brucet, S. R. Ólafsdóttir, A. R. Ives. 2015. *Spatial patterns reveal strong abiotic and biotic drivers of zooplankton community composition in Lake Mývatn, Iceland*. **Ecosphere**. 6(6):105
17. Bartrons, M., C. Gratton, B.J. Spiesman and M.J. Vander Zanden. 2015. *Taking the Trophic Bypass: Aquatic-Terrestrial Linkage Reduces Methylmercury in Terrestrial Food Webs*. **Ecological Applications**. 25(1):151-159
16. Dočkalová, K., J. Holubcová, M. Bacardit, M. Bartrons, L. Camarero, E. Gallego, J. O. Grimalt, D. Hardekopf, Z. Hořická, B. O. Rosseland, J. Tátosová, E. Stuchlík. 2015. *Brown and brook trout populations in the Tatra Mountain lakes (Slovakia, Poland) and contamination by long-range transported pollutants*. **Biologia**. 70(4): 516–529

15. Carnicer, J., J. Sardans, C. Stefanescu, A. Ubach, M. Bartrons, D. Asensio, J. Peñuelas. 2015. *Global biodiversity and ecosystem function responses to human-induced C, N, P imbalances*. **Journal of Plant Physiology**. 172:82-91
14. Vila-Costa, M., M. Bartrons, J. Catalan and E.O. Casamayor. 2014. *Nitrogen cycling-related genes in epilithic biofilms of oligotrophic high mountain lakes (Central Pyrenees, Spain)*. **Microbial Ecology**. 68(1):60-69
13. Vinebrooke, R.D., M.M. MacLennan, M. Bartrons, and J.P. Zettel. 2014. *Missing effects of anthropogenic nutrient deposition on sentinel alpine ecosystems*. **Global Change Biology**. 20(7):2173-2182
12. Bartrons, M., M. Papes, M.W. Diebel, C. Gratton, M.J. Vander Zanden. 2013. *Regional-Level inputs of emergent aquatic insects from water to land*. **Ecosystems**. 16(7):1353-1363
11. Bartrons, M., J. O. Grimalt, G. de Mendoza and J. Catalan. 2012. *Pollutant Dehalogenation Capability May Depend on the Trophic Evolutionary History of the Organism: PBDEs in Freshwater Food Webs*. **PlosOne**. 7(7):e41829
10. Hoekman, D., M. Bartrons, C. Gratton. 2012. *Ecosystem linkages revealed by experimental lake-derived isotope signal in heathland food webs*. **Oecologia**. 170:735–743
9. Bartrons, M. J. Catalan, E.O. Casamayor. 2012. *High bacterial diversity in epilithic biofilms of mountain lakes declines with altitude*. **Microbial Ecology**. 64:860–869
8. Bartrons, M., J. O. Grimalt, and J. Catalan. 2012. *Food web bioaccumulation of organohalogenated compounds in high mountain lakes*. **Limnetica**. 31(1):155-164. Índex d'impacte (SCI/SSCI): 1.113
7. Bartrons, M., J. Catalan J., and J. O. Grimalt. 2011. *Altitudinal distributions of BDE-209 and other polybromodiphenyl ethers in high mountain lakes*. **Environmental Pollution**. 159(7):1816-1822
6. Bartrons, M., L. Camarero, and J. Catalan. 2010. *Isotopic composition of dissolved inorganic nitrogen in high mountain lakes: variability along an altitudinal gradient in the Pyrenees*. **Biogeosciences** 7:1469-1479.
5. Jarque, S., E. Gallego, M. Bartrons, J. Catalan, J. O. Grimalt and B. Piña. 2010. *Altitudinal and thermal gradients of hepatic Cyp1A gene expression in natural populations of Salmo trutta from high mountain lakes and their correlation with organohalogen loads*. **Environmental Pollution** 158:1392-1398. Environmental Pollution. 159(7):1816-1822
4. Bartrons, M., J. O. Grimalt, and J. Catalan. 2007. *Concentration changes of organochlorine compounds and polybromodiphenyl ethers during metamorphosis of aquatic insects*. **Environmental Science and Technology** 41: 6137-6141
3. Gallego, E., J. O. Grimalt, M. Bartrons, J. F. Lopez, L. Camarero, J. Catalan, E. Stuchlik, and R. W. Battarbee. 2007. *Altitudinal gradients of PBDEs and PCBs in fish from European high mountain lakes*. **Environmental Science and Technology** 41: 2196-2202
2. Catalan J., Camarero Ll., Felip M., Pla S., Ventura M., Buchaca T., Bartumeus F., de Mendoza G., Miró A., Casamayor E.O., Medina-Sánchez J.M., Bacardit M., Altuna M., Bartrons M., and Díaz de Quijano D. 2005. *High mountain lakes: extreme habitats and witnesses of environmental changes*. **Limnetica** 25: 551-584
1. Bartrons M., Ortega E., Obach M., Calvo M.N., Navarro-Sabaté A., and Bartrons R. 2004. *Activation of AMP-dependent protein kinase by hypoxia and hypothermia in the liver of frog Rana Perezii*. **Cryobiology** 49: 190-194

Book chapters and non-refereed publications:

3. Peñuelas, J., J. Sardans, I. Filella, M. Estiarte, J. Llusà, R. Ogaya, J. Carnicer, M. Bartrons, A. Rivas-Ubach, O. Grau, G. Peguero, O. Margalef, S. Pla, C. Stefanescu, D. Asensio, C. Preece, L.

- Liu, A. Verger, L. Rico, A. Barbeta, A. Achotegui, A. Gargallo-Garriga, D. Sperlich, G. Farré-Armengol, M. Fernández-Martínez, D. Liu, C. Zhang, I. Urbina, M. Camino, A. Ubach, M. Popkin, J. Albrand, C. Wheat, D. Nadal, S. Sabate, C. Gracia, J. Terradas. 2015. *Impactes del canvi climàtic sobre els ecosistemes terrestres Catalans*. **IPCC Català - Ecosistemes Terrestres** (In press)
2. Catalan, J., M. Bartrons, L. Camarero, L., J. O. Grimalt. *Mountain Waters as Witnesses of Global Pollution*. 2013. Pages 31-67. **Living with Water: Targeting Quality in a Dynamic World**. P. Pechan and G.e. de Vries (eds.), Springer Science + Business Media New York. DOI 10.1007/978-1-4614-3752-9_2. ISBN 978-1-4614-3752-9
 1. Bartrons, M. *Estanys d'alta muntanya - testimonis dels canvis ambientals*. **Omnis Cellula** 20: 34-39. 2009. Editorial: IEC: [coedició amb] Omnis Cellula. Associació científico-cultural. Ref.: 37282. ISSN (paper): 1696-8107. ISSN (digital): 1885-2327.

Manuscript reviewer for (within the past 12 months): PloS ONE, Environmental Science and Technology, Ecological Applications, Marine and Freshwater Research, Journal of Ecology and The Natural Environment

TEACHING EXPERIENCE

Lector Professor, AQU Catalunya Teaching Accreditation

Member of the committee of the following PhD: Ada Pastor (vocal), Guillermo de Mendoza (substitute), Joana Vicente de Bobes (substitute), Eglantine Chappuis (substitute)

Associate professor: 2012-2013, 2013-2014, 2015-2016 at UVIC

Courses:

1st grade of Biology, Environmental Sciences and Biotechnology: General Biology (6 credits)

3rd grade of Biology: Aquatic Ecology (6 credits), Integrated Laboratory (3 credits), Experimental design and data analysis (6 credits), Geographic information systems (2.5 credits)

4th grade of Biology: Research Methodology (3 credits)

Graduate Teaching Assistant: Limnology of High Mountain Lakes, Fundamental and Applied Ecology M.Sc. University of Barcelona (Spain). Spring 2009

Graduate Teaching Assistant: Footprints and Prospects of Global Change in Mountain Ecosystems, Global Change M.Sc. International University Menéndez Pelayo (Spain). Fall 2008

Mentor of graduate and undergraduate students at UW-Madison

Instructor: Winter Limnology program for elementary school students. Center for Limnology, University of Wisconsin-Madison. Winter 2010-2011

Certificate of pedagogical skills (CAP), University of Barcelona (UB). 2007-2008

Other: Workshops at University of Wisconsin-Madison. 2010-2011

“Challenging and Supporting the First-Year Student “

“UW Postdoc Conference on Professional Development”

AWARDS

- 2014 Beatriu de Pinós Postdoctoral Fellowship by the Catalan Government (renounce for a contract as junior coordinator of ERC-Syngery IMBALANCE-P at CREAM). 85.022,40€
- 2012 Guyer Fellowship, University of Wisconsin-Madison (USA, 1 year). 39.264,00\$
- 2010 PhD thesis award by the Iberian Society of Limnology to the best PhD during the Biennial 2008-2010
- 2010 Postdoctoral Fellowship by the Spanish Ministry of Education (USA, 2 years). 50.400,00€
- 2008 Outgoing research Fellowship by the Spanish Ministry of Science and Technology (Canada, 3 months). 3.426,00€
- 2004 FPU Graduate School Fellowship by the Spanish Ministry of Science and Technology (Spain, 4 years). 64.400,00€
- 2003 ERASMUS undergraduate Fellowship by the European Union (Finland, 5 months). 900,00€

INTERNATIONAL RESEARCH STAGES

Postdoctoral Stage: Madison, University of Wisconsin

Advisor: Jake Vander Zanden

Research topic: Characterization of ecosystem linkages between terrestrial – aquatic habitats

Country: United States of America and Iceland

Date: June 16th, 2010 – August 31th 2013

Doctorate Stage: Edmonton, University of Alberta

Advisor: Rolf Vinebrooke

Research topic: N and P limitation in alpine ponds (Banff National Park, Canadian Rocky Mountains)

Country: Canada

Date: June 2nd – August 13th, 2008

Doctorate Stage: Prague, Charles University

Advisor: Evzen Stuchlik

Research topic: Field sampling in the Tatra Mountains (Slovakia-Poland)

Country: Czech Republic, Slovakia and Poland

Date: September 2004 and September 2005

ERASMUS Scholarship: Helsinki, University of Helsinki

Advisor: Raisa Mäkipää and Aleksu Lehtonen

Research topic: Needle retention time of Scots pine (*Pinus sylvestris*): a key to understand the carbon balance of the forest

Country: Finland

Date: September 1st 2003 - February 10th 2004

RESEARCH STAGES IN SPAIN

Stage Institution: Center for Advanced Studies of Blanes (CEAB) - Spanish Council for Scientific Research (CSIC).

Advisor: Jordi Catalan and Joan O. Grimalt

Research topic: Food web bioaccumulation of halogenated compounds in high mountain lake food webs.

Date: April 16th, 2004 – June 15th, 2010

Stage Institution: Centre for Ecological Research and Forestry Applications (CREAF)

Advisor: Carlos Gracia

Research topic: student collaboration in computer modeling (GOTILWA)

Date: January 1st – June 31st, 2003,

Stage Institution: Centre for High Mountain Research (CRAM) of the University of Barcelona

Advisor: Jordi Catalan and Teresa Buchaca

Research topic: Analysis of pigments as taxonomic markers of photosynthetic organisms (algae, cyanobacteria and photosynthetic bacteria) and as proxies of the processes occurring at different spatio-temporal scales (e.g. grazing, anoxia, eutrophication)

Date: July 1st, 2002 – August 15th, 2002

Stage Institution: Department Physiological Sciences. School of Medicine. University of Barcelona.

Advisor: Ramon Bartrons

Research topic: Molecular mechanisms of frogs (*Rana perezi*) hibernation

Dates: July 1st – December 31st, 2001

Stage Institution: Centre for High Mountain Research (CRAM) of the University of Barcelona

Advisor: Jordi Catalan and Lluís Camarero

Research topic: European Mountain lake Ecosystems: Regionalisation, diaGnostic & socio-economic Evaluation (EMERGE)

Date: July 1st, 2000 – August 15th, 2000

RESEARCH PROJECTS

IMBALANCE-P: Effects of phosphorus limitations on Life, Earth system and Society (ERC grant SyG-2013-610028). European Research Council (FP7-IDEAS-ERC). 13.600.579,98€ (2013-2020)

NP: Impactos de la creciente desproporción ambiental entre N y P sobre organismos, comunidades y ecosistema (CGL2013-48074-P). Ministerio de Economía y Competitividad. 338.800,00€ (2014-2016).

SGR: Grup d'Ecofisiologia i efectes ecològics dels canvis ambientals (SGR 2014-2016 PEÑUELAS). AGAUR. 48.000,00€ (2014 -2016)

Will climate-induced changes in fish stocks lead to significant ecosystem changes in the naturally eutrophic lake Myvatn, Iceland?(2013_01_0535). Carlsberg Foundation (Denmark). 540.200,00 kr (2014-2015)

GRG-UW-M: Zoology Graduate Research Grant. UW-Madison, Department of Zoology (USA). 2.156,00\$ (2011 -2012)

LTREB: High-amplitude midge fluctuations and the ecosystem dynamics of Lake Myvatn, Iceland (LTREB-1052160). National Science Foundation (NSF-USA). 449.238,00\$ (2008-2019)

Spatial subsidies at the lake-land interface (DEB-0717148). National Science Foundation (NSF-USA). 671.550,00\$ (2001 -2007)

GRACCIE: Multidisciplinar sobre Canvis Climàtics Graduals i Abruptes, i els seus efectes Medioambientals (CSD2007-00067). Ministeri d'Educació i Ciència Espanyol (Consolider – Ingenio 2010). 5.413.000,00€ (2007-2010)

EURO-LIMPACS: Integrated Project to Evaluate the Impacts of Global Change on European Freshwater Ecosystems (GOCE-CT-2003-505540). Unió Europea (FP6-SUSTDEV). 19.154.659,00€ (2004-2009)

TRAZAS: Trazadores múltiples para el estudio de la estructura y funcionamiento de redes tróficas acuáticas: desarrollo en sistemas lacustres (CGL2004-02989). Ministeri d'Educació i Ciència Espanyol (Plan Nacional I+D). 150.600,00€ (2004 -2007)

ATEAM: Advanced Terrestrial Ecosystem Analysis and Modelling (EVK2-CT-2000-00075). Unió Europea (FP5-EESD). 3.397.411,00€ (2001-2004)

EMERGE: European mountain lake ecosystems: regionalisation, diagnostics & socio-economic evaluation (EVK1-CT-1999-00032). Unió Europea (FP5-EESD). 5.679.600,00 € (2000-2003)

SKILLS AND TECHNIQUES

Gas chromatography coupled to negative ion chemical ionization mass spectrometry (GC-MS-NICI) in a TRACE GC ULTRA (Thermo Electron, Milan, Italy) coupled to a MS DSQ (Thermo Electron, Austin, Texas, USA)

Gas chromatography coupled to electron capture detection (GC-ECD, Hewlett-Packard 5890 series II)

Gas chromatography coupled to combustion Isotope ratio mass spectrometry (Delta C Finnigan MAT mass spectrometer - Bremen, Germany) coupled online with a Carlo Erba CHNS (Milan, Italy) elemental analyzer, via a Finnigan conflo 2 interface.

Denaturing Gradient Gel Electrophoresis (DGGE)

PCR-Cloning

Western blot

Intensive terrestrial and aquatic fieldwork campaigns: invertebrate ecology and taxonomy, gillnetting, aquatic metabolism incubations, discrete and continuous data analyzers (sondes and probes), analysis of chlorophylls (spectrophotometry and fluorometry), nutrients (**Technicon autoanalyser**), alkalinity (**Metrohm titration**) and major ions (**capilar ion chromatography**). **Geographical Information Systems (ArcInfo)**

CONGRESS CONTRIBUTIONS AND SEMINARS

17. Peñuelas, J., Filella, I., Estiarte, M., Llusà, J., Sardans, J., Ogaya, R., Carnicer, J., Bartrons, M., Rivas, A., Grau, O., Peguero, G., Margalef, O., Asensio, D., Preece, C., Liu, L., Verger, A., Rico, L., Barbeta, A., Achotegui-Castells, A., Gargallo, A., Sperlich, D., Farré-Armengol, G., Fernández-Martinez, M., Liu, D., Zhang, C., Urbina, I. 2015. Invited final conference keynote lecture. Integration of molecular and global tools for a better understanding of current changes in forest structure and functioning. **X National Congress of the Italian Society of Silviculture and Forest Ecology, Sostenere il pianeta, boschi per la vita ricerca e innovazione per la tutela e la valorizzazione delle risorse.** Florence, September 15-18th, 2015
16. Bartrons M., Ciais, P., Janssens, I., Obersteiner, M., Peñuelas, J., (2015) Quantifying the responses of ecosystems and society in a world increasingly rich in N and C but limited in Phosphorus. **5th International Workshop on Higher Education.** June 9th-12th, 2015. University of Vic, Vic (Barcelona)
15. Peñuelas, J., Bartrons, M. (2015) Gathering of experimental and observational data and data-mining to feed, link and validate IAM and ESM. **IMBALANCE-P IAM-ESM integration meeting, Paris.** April 9th-10th, 2015
14. Bartrons, M. (2015) "Food web responses to nutrient imbalances". **Imbalance-P conference (European Research Council Synergy grant ERC-2013-SyG-610028).** Barcelona (Catalonia, Spain)

13. Bartrons, M., Gratton, C., Vander Zanden, J.M. (2013) "Taking the Trophic Bypass: Aquatic-Terrestrial Linkage Reduces Methylmercury in Terrestrial Food Webs. **Workshop on The Ecology of Inland Waters**, British Council/CSIC. Estación Biológica de Doñana (Huelva)
12. Bartrons, M., Papes, M., Diebel, M.W., Gratton, C., Vander Zanden, J.M. (2011) Empirical model of the potential flux of aquatic productivity from lakes and streams onto land. **96th ESA Annual Meeting**, Austin
11. Bartrons, M., Papes, M., Diebel, M.W., Gratton, C., Vander Zanden, J.M. (2011) Empirical model of the potential flux of aquatic productivity from lakes and streams onto land. **7th Symposium for European Freshwater Sciences**, Girona
10. Bartrons, M. (2010) Food web bioaccumulation of halogenated compounds in high mountain lake food webs. **Center for Limnology Seminar**, Madison
9. **PLENARY LECTURE:** Bartrons, M. (2010) Food web bioaccumulation of halogenated compounds in high mountain lake food webs. **XV Iberian Society of Limnology Meeting**, Punta Delgada
8. Bartrons, M., G. de Mendoza, L. Camarero, M. Bacardit, and J. Catalan (2009) Food web C and N stable isotope variability in high mountain lakes throughout an altitudinal gradient. **Aquatic Sciences Meeting 2009 - A Cruise through Nice Waters**, Nice
7. Bartrons, M., G. de Mendoza, L. Camarero, M. Bacardit, and J. Catalan (2008) Food web C and N stable isotope variability in high mountain lakes throughout an altitudinal gradient. **93rd ESA Annual Meeting**, Milwaukee
6. Bartrons, M., J. Catalan, and J. O. Grimalt (2008) BDE-209 and other polybromodiphenyl ethers in high mountain lakes. **SETAC. Europe Annual Meeting 2008**, Warsaw
5. Bartrons, M., J. Catalan, and J. O. Grimalt (2008) BDE-209 and other polybromodiphenyl ethers in high mountain lakes. **RIVERPOL. Industrial pollution in rivers. Effects on water quality, biota and agriculture**, Tarragona
4. Bartrons, M., J. Catalan, and J. O. Grimalt (2008) BDE-209 and other polybromodiphenyl ethers in high mountain lakes. **5th Catalan Young Researchers Meeting – "Cinquena Trobada de Joves Investigadors dels PPCC"**, Vic
3. Bartrons, M., J. O. Grimalt, and J. Catalan (2007) Concentration changes of organochlorine compounds and polybromodiphenyl ethers during metamorphosis of aquatic insects. **Workshop on Persistent organic pollutants in the environment: Global distribution, Transport and Effects**, Baezal poster
2. Bartrons, M., J. O. Grimalt, and J. Catalan (2006) Increase in organochlorine compounds concentration during metamorphosis of aquatic insects: Implications for food web bioaccumulation theory. **XIII Limnological Society of Spain Meeting – V Iberian Congress of Limnology**, Barcelona
1. Bartrons, M., G. de Mendoza, and J. Catalan (2005) A stable isotope approach to food web structure in high-mountain lakes throughout an altitudinal gradient. **ASLO Summer meeting. A Pilgrimage through Global Aquatic Sciences**. (Santiago de Compostela-Spain, June 19-24th, 2005)

VOLUNTEERING

Active member of three committees at the University of Wisconsin's Center for Limnology, 2010-present

Active member of the Scientific Seminars Commission of CEAB-CSIC (2008-2010): They are given each Thursday at 12:30 in the Auditorium of the Center.

Volunteer in the Project: "Study and monitoring of the Llobregat river birds on their way through the town of Abrera (Barcelona)". Entity: SEO/Birdlife. Project manager: Dra. Cristina Sánchez, delegate of SEO/Birdlife-Catalunya. Year 2002

Ecology practices at Natural Park of s'Albufera d'es Grau, Menorca. Organized by Dr. Joan Pretus (ub) and Miquel Truyol (Natural Park director). Department of Ecology, University of Barcelona and Natural Park of S'Albufera d'es Grau of Menorca. S'Albufera d'es Grau, July 2001

Volunteer in Coastwatch - Catalonia coordinated by Greenpeace. Coastwatch is an international network of environmental groups, universities and other educational establishments, who in turn work with local groups and individuals around the coast of Catalonia, in this case. Years 1995-1999.

Volunteer in Party for the Solidarity, A Day for the Hope, coordinated by Intermon - Oxfam. Years 1996 to 1999.

OTHER MERITS

Languages:

Catalan: Mother tongue

D level (June, 2010)

C level, COU (June, 1999)

Spanish: Fluent

English: Fluent

FCE - First Certificate in English (June, 2000)

CAE - Certificate in Advanced English (June, 2004)

French: Basic. I lived in Brussels for two years (3-5 years old). Willing to get fluent level soon

Music:

Sol-fa and Coral Studies in the Bruc Official Music Conservatory of Barcelona (Barcelona-Spain, 1990-97)

Piano studies (4th course). Luthier school. (Barcelona-Spain, 1993-1999)

Jazz course in Taller de Músics (Barcelona-Spain, 2000)

Informatics:

Office: Word, Excel, Acces, PowerPoint

Image: Adobe Photoshop, Corel Draw

Programming: Visual Basic

Statistics: R, SAS, S-PLUS, Canoco, Statistica, Statgraphics, PRIMER-E

GIS: Arc Map 10

Accreditations and licenses:

Pedagogic certified: CAP, University of Barcelona (UB)

Scuba diving: NAUI SCUBA DIVER – Open Water Certified

Driving license: B1 (July 2009)

Member of the Societies (alphabetical order):

Ecological Society of America (ESA)

International Society of Limnology (SIL)

Earth Science Women's Network (ESWN)

Catalan Institution of Natural History (ICHN)

Naturalist Group of Osona (GNO)

Natural Patrimony Defense Organization (DEPANA)