

Angel AVADÍ

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Website: <http://anchoveta-sc.wikispaces.com/>

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<https://fr.linkedin.com/in/aavadi>



Curriculum Vitæ

INTERESTS	Research/academic/consulting/project management activities in environmental and sustainability assessment of agriculture, livestock, aquaculture, fisheries, food and biomass systems; as well as regarding recycling of organic waste.
SKILLS AND ASSETS	<ul style="list-style-type: none">• Generalist in sustainability, specialist in environmental assessment of food systems• Engineering, business, environmental and IT education and training• Professional communication in English, Spanish and French• Teaching experience (undergraduate and graduate)• Quick adaptation to new environments, situations and cultural set-ups• International research network in food systems/sustainability assessment• Tools/approaches for sustainability assessment: Material Flow Analysis and life cycle methods (e.g. LCA, footprints), Regional Material Flow Modelling, Industrial Ecology (e.g. Industrial Symbiosis), GHG inventorying

EDUCATION

April 2011 –
March 2014,
Montpellier,
France; Lima,
Peru and
Halifax,
Canada

University of Montpellier II (UM2), Doctoral School SIBAGHE (Integrated Systems in Biology, Agronomy, Geosciences, Hydrosiences, Environment)

www.sibaghe.univ-montp2.fr

PhD in Ecosystems Management:

- Institut de Recherche pour le Développement (IRD) 3-year doctoral contract
- Stages in UMR 212 EME (Sète, 1 month), SupAgro (Montpellier, 8 months), Catholic University of Peru (Lima, 16 months) and SRES-Dalhousie University (Halifax, 11 months)
- UMR (IRD, UM2 & Ifremer) 212 EME “Exploited Marine Ecosystems” project “Sustainability of the Peruvian anchoveta supply chains”, aka ANCHOVETA-SC project (<http://anchoveta-sc.wikispaces.com>)
- Focus on sustainability and environmental assessment of seafood systems, by means of Life Cycle Assessment, material flow modelling, etc.

October 2007
– February
2010, Beppu,
Japan and
Birkenfeld,
Germany

Ritsumeikan Asia Pacific University and University of Applied Science Trier (Environmental Campus Birkenfeld, Institute for Applied Material Flow Management -IfaS)

www.apu.ac.jp, www.umwelt-campus.de, www.stoffstrom.org

Dual Master Program: MSc. in International Cooperation Policy and MEng. in International Material Flow Management (IMAT, www.imat-master.de):

- MEXT Scholarship (Japan) and DAAD Scholarship (Germany) recipient
- DAAD prize for foreigner students 2009

- Focus on regional material flow management for sustainable development
- Research on agro-eco-industrial clusters and other industrial ecology themes
- Research and thesis on sustainable waste and energy management and policy (http://www.apu.ac.jp/media/modules/libraryinfo/index.php?content_id=96)
- Research and thesis on regional material flow modelling and GHG inventorying
- Collaboration in international CDM, waste management and other projects
- TA duties: MFM Modelling and SW applications; GHG Inventorying.
- DAAD sponsored trip to Goiania, Brazil, December 2009; representing the University of Applied Sciences Trier and IfaS before local universities.

October 2005
– August
2006, Niigata,
Japan

International University of Japan www.iuj.ac.jp

Masters of International E-Business Management (MSc.):

- IUJ Scholarship Type-B recipient
- Focus on e-solutions consulting and project management
- Research and thesis on evaluation of e-learning models (http://www.iuj.ac.jp/mlic/theses/thesis_details.cfm?ID=2A5201)

June 1995 –
June 2002,
Guayaquil,
Ecuador

Catholic University of Guayaquil www.ucsg.edu.ec

Computer Systems Engineer (Dipl.-Ing.):

- Thesis: “A Model of Distance Education: e-Learning” featuring a dynamic web application (<http://www2.ucsg.edu.ec/biblioteca/index.php/biblioteca-online/catalogo-virtual>)

PROFESIONAL EXPERIENCE

October 2015
– present

CIRAD - French Agricultural Research Centre for International Development, Unit Recyclage et risque <http://ur-recyclage-risque.cirad.fr/l-unite>

Researcher (permanent position):

- Researcher specialist of the environmental assessment of crop production systems and their fertilisation management practices.
- Collaboration with the MEANS platform (multicriteria assessment of sustainability) (http://www6.inra.fr/means_eng).

May 2014 –
August 2015,
Rennes,
France

INRA - National Institute for Agricultural Research, Unit SAS – Soil, Agro and hydroSystem http://www6.rennes.inra.fr/umrsas_eng

Research Engineer (Postdoc):

- European Commission project FP7- 289328 "Crops and ANimals TOGETHER" CANTOGETHER (<http://www.fp7cantotogether.eu/>).
- Estimation of environmental impacts of agricultural production systems at the regional (district) and catchment levels.
- Occasional teaching duties regarding environmental assessment of agricultural and food production systems.

July 2009 –
March 2011,
Birkenfeld,
Germany

IfaS - Institute of Applied Material Flow Management www.stoffstrom.org

Project Manager:

- Regional material flow management related research and international project management duties.

- Teaching assistant for courses in GHG Inventorying and LCA tools at Environmental Campus Birkenfeld, graduate level.
- Liaison duties for foreigner students applying to the IMAT programmes.
- Key projects:
 - MFM Summer School Curitiba 2010, Brazil, March 4-17, 2010, in cooperation between IfaS and Universidade Positivo, Curitiba, Brazil.
 - “Centre for research, development and technological innovation for valorisation and treatment of Municipal Solid Waste of Marga-Marga”.
 - “Pre-feasibility study of establishing a WWTP as energy independent in Jimo City, Shandong, China”.
- Participation in the German Federal Ministry of Education and Research (BMBF) project “Recycling of organic residues from agricultural and municipal origin in China”.

Sept. 2006 –
Sept. 2007,
Guayaquil,
Ecuador

Catholic University of Guayaquil www2.ucsg.edu.ec/empresariales

Consultant, Researcher and Lecturer:

- Consultant duties at the Consultancy Centre of Trade and Finance
- Research on economic mechanisms for rural development
- Lecturer of Management Information Systems and e-Commerce for undergraduates

Oct. 2003 –
Oct. 2005,
Guayaquil,
Ecuador

Plastigomez S.A. (plastics industry) www.plastigomez.com

Network Administrator, Systems Analyst

- Maintained, tuned and extended a proprietary ERP, including *Theory of Constraints* implementation tasks
- Supported the ISO9001 re-certification process, including internal auditing duties
- Administrated a network and provided customer support, including system upgrades (HW, SW)

March 2001 –
Oct. 2003,
Guayaquil,
Ecuador

Xerox del Ecuador S.A. (IT services provider) www.xerox.com/index/esec.html

Printing Manager:

- Managed printing outsourcing projects, including customer support, serving a wide range of firms

Dec. 1998 -
Dec. 2000 –
Guayaquil,
Ecuador

NT2000 S.A. (IT services provider)

Tech Support Analyst:

- Researched, evaluated and implemented document and imaging management solutions: network laser printing, secure printing, overlays, spooling for high volume printing, etc.

OTHER EXPERIENCE

- Worked part-time as Library Assistant, at the Matsushita Library, International University of Japan, Niigata, Japan, 04-08.2006.
- Active participation and presentations at international conferences, such as:
 - International Seminar on social LCA, Montpellier, France, 05.2011, organised by ELSA (www.elsa-lca.org).

- International Circular Economy Conference, 11.2008-2014, organised annually by IfaS.
- 6th Annual Industrial Research Symposium, Kalundborg, Denmark, 06.2009; organised by the Center for Industrial Ecology at Yale University's, School of Forestry and Environmental Studies and the International Society of Industrial Ecology.
- Dynamics of the Humboldt Current System (DISCOH) scientific workshop, Lima, Peru, 03.2012.
- Congreso de Ciencias del Mar del Perú (CONCIMAR III), Lima, Peru, 06.2012.
- 8th International Conference on LCA in the Agri-Food Sector (LCA Food 2012), St. Malo, France, 10.2012.
- SETAC Europe 25th Annual Meeting, Barcelona, Spain, 05.2015.
- Les écosystèmes marins dans tous leurs états, Colloque of the Association Française d'Halieutique, Montpellier, France, 03.2015.
- Technical presentations before various Peruvian authorities (up to the vice-ministerial level), for the ANCHOVETA-SC project, 2012-2014.

PUBLICATIONS

Peer-reviewed

- Avadí A, Nitschelm L, Corson M, Vertès F (2016) Data strategy for environmental assessment of agricultural regions via LCA: case study of a French catchment. *The International Journal of Life Cycle Assessment*, doi:10.1007/s11367-016-1036-6
- Avadí A, Bolaños C, Sandoval I, Ycaza C (2015) Life cycle assessment of Ecuadorian processed tuna. *The International Journal of Life Cycle Assessment*, 20:1415–1428.
- Higuchi A, Avadí A (2015) Organic purchasing factors and consumer classification through their preferences in the metropolitan area of Lima, Peru. *Agron Colomb* 33:271–279.
- Avadí A, Fréon P (2015) A set of sustainability performance indicators for seafood: direct human consumption products from Peruvian anchoveta fisheries and freshwater aquaculture. *Ecological Indicators*, 48, 518–532.
- Avadí A, Pelletier N, Aubin J, Ralite S, Núñez J, Fréon P (2015) Comparative environmental performance of artisanal and commercial feed use in Peruvian freshwater aquaculture. *Aquaculture*, 435, 52–66.
- Avadí A, Fréon P, Tam J (2014) Coupled ecosystem/supply chain modelling of fish products from sea to shelf: the Peruvian anchoveta case. *PloS One*, 9(7), 1–21.
- Fréon P, Avadí A, Marín W, Negrón R (2014) Environmentally-extended comparison table of the Peruvian anchoveta large-scale vs. the small- and medium-scale fleets. *Canadian Journal of Fisheries and Aquatic Sciences*, 71, 1459–1474.
- Avadí A, Fréon P, Quispe I (2014) Environmental assessment of Peruvian anchoveta food products: is less refined better? *The International Journal of Life Cycle Assessment*, 19(6), 1276–1293.
- Avadí A, Vázquez-Rowe I, Fréon, P (2014) Eco-efficiency assessment of Peruvian anchoveta steel and wooden fleets using the LCA+DEA framework. *Journal of Cleaner Production*, 70, 118–131.
- Fréon P, Avadí A, Vinatea RA, Iriarte F (2014) Life cycle assessment of the Peruvian industrial anchoveta fleet: boundary setting in life cycle inventory analyses of complex and plural means of production. *The International Journal of Life Cycle Assessment*, 19(5), 1068–1086.
- Avadí, A, Fréon, P (2013) Life cycle assessment of fisheries: A review for fisheries scientists and managers. *Fisheries Research*, 143, 21–38.
- Avadí, A (2012) A framework for sustainability comparison of seafood supply chains, and “LCA of locally produced feeds for Peruvian aquaculture, in Corson, M.S., van der Werf, H.M.G. (Eds.), 2012. Proceedings of the 8th International Conference on Life Cycle Assessment in the Agri-Food Sector (LCA Food 2012), 1-4 October 2012, Saint Malo, France. INRA, Rennes.

Monographs

- Avadí, A (2014) Sustainability of the Peruvian anchoveta supply chains from sea to shelf: towards a new strategy for optimal use of resources, Thesis presented to the Board of Examiners, Université Montpellier 2 and the research unit UMR 212 Exploited Marine Ecosystems (IRD), for obtaining the degree of Doctor in Ecosystems, Montpellier, France, March 2014, available from <https://app.box.com/s/b07u3220jgg9yaq31v6p>.
- Avadí, A (2010) Integrated regional material flow modelling and GHG inventorying: implications for regional sustainable development, Thesis presented to the Board of Examiners, University of Applied Sciences Trier – Environmental Campus Birkenfeld, in Partial Fulfilment of the Requirements for the Degree of Master of Engineering in International Material Flow Management, Birkenfeld, Germany, January 2010, available from <https://app.box.com/s/zbqx8jc34zfv130m7y1w>.
- Avadí, A (2009) Required framework and policy conditions for energy and waste management towards sustainable development in Ecuador, Thesis presented to the Higher Degree Committee of Ritsumeikan Asia Pacific University in Partial Fulfilment of the Requirements for the Degree of Master of Science in International Cooperation Policy, Beppu, Japan, September 2009, available from <https://app.box.com/s/a0qdnmvf0ca85unztpma>.
- Avadí, A (2006) A Framework for Evaluation of E-learning Models, Thesis presented to the Evaluation Committee of the International University of Japan in Partial Fulfilment of the Requirements for the Degree of Master of E-Business Management, Minamiuonuma-shi, Japan, August 2006, available from <https://app.box.com/s/mp00jy8bzb04xgmn939f>.

Non peer-reviewed

- Avadí, A (2011) Pre-feasibility study of establishing a WWTP as energy independent in Jimo City, Shandong, China, report presented to project partners, Institute for Applied Material Flow Management (IfaS), Birkenfeld, Germany, February 2011.
- Martínez-Gómez, J, Avadí, A (2009) Centre for research, development and technological innovation for valorisation and treatment of Municipal Solid Waste of Marga-Marga – CIDITEC, report presented to project partners, Institute for Applied Material Flow Management (IfaS), Birkenfeld, Germany, June 2009.

COURSES TAUGHT

- Management Information Systems (information systems, IT corporate strategy), undergraduate course, 2 semesters (2006-2007), Catholic University of Santiago de Guayaquil, Faculty of International Trade and Finances, Guayaquil, Ecuador.
- Applied Informatics III (desktop research and productivity tools), undergraduate course, 1 semester (2007), Catholic University of Santiago de Guayaquil, Faculty of International Trade and Finances.
- Greenhouse Gas Inventorying, graduate short course, 05/2010, University of Applied Sciences Trier – Environmental Campus Birkenfeld, International Study Semester “Principles of Sustainable Business”, Birkenfeld, Germany.
- Software solutions for Material Flow Management, graduate course, Winter semester 2010 and Summer semester 2011, University of Applied Sciences Trier – Environmental Campus Birkenfeld, Master of Material Flow Management, Birkenfeld, Germany.
- Regional Material Flow Modelling and Greenhouse Gas Inventorying, graduate short course, 03/2010, Universidade Positivo, Graduate Program in Environmental Management, Summer School Curitiba 2010, Curitiba, Brazil.
- Life cycle assessment of agricultural, livestock and aquaculture production, undergraduate short course, 11/2014, Ésitpa Engineering School, Mont-Saint-Aignan, France.

- Life cycle assessment of agricultural, livestock and aquaculture production, graduate short course, 12/2014, Engineering School of Purpan, Toulouse, France.
- Life cycle assessment of agricultural, livestock and aquaculture production, graduate short course, 01/2015, Istom Engineering School in Agro-development, Cergy-Pontoise, France.

AFFILIATIONS

- Since 2013: Member of the International Society for Industrial Ecology (<http://is4ie.org/>).
- Since 2014: Member of AgorACV (<http://agoracv.fr/>), Inter- associative network of Bretagne and Pays de la Loire scientists in Life Cycle Assessment.
- Since 2015: Member of the Society of Environmental Toxicology and Chemistry (SETAC).
- Since 2015: Member of the French Environmental Lifecycle and Sustainability Assessment network (ELSA) (<http://www1.montpellier.inra.fr/elsa/>)

REFERENCES

- Dr. Michael Corson, Senior Researcher, UMR SAS - Sol Agro et hydrosystème Spatialisation, 65, rue de Saint Briec - CS 84215, 35042 Rennes Cedex, France, +33 2 23 48 57 09, michael.corson@rennes.inra.fr
- Dr. Pierre Fréon, Director of Research - Emeritus, UMR Marbec - MARine Biodiversity, Exploitation and Conservation (joint lab by IRD, IFREMER, Université de Montpellier and CNRS), Avenue Jean Monnet, BP 171, 34203 Sète Cedex, France, +33 (0)7 77 08 93 20, pierre.freon@ird.fr
- Prof. Peter Tyedmers, Director, School for Resource and Environmental Studies, Dalhousie University, Kenneth C. Rowe Management Building, 6100 University Ave., suite 5010, Halifax NS, Canada, +1 902 494 6517, peter.tyedmers@dal.ca
- Dr. Michael Knaus, Head of International Department, Institute for Applied Material Flow Management (IfaS), Campusallee 9926, 55768 Neubrück, Germany, +49 6782/17-1583, m.knaus@umwelt-campus.de

LANGUAGES

- Spanish: Native
- English: Professional (C2)
- French: Intermediate (C1)
- German: Beginner
- Japanese: Beginner

PERSONAL INTERESTS

- Literature
- World food
- Japan
- Travelling!