

## Vita of Lidia Esteve Agelet

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### **EDUCATION:**

Ph.D. Agriculture and Biosystems Engineering candidate – Iowa State University, Ames, IA. Exp. Dec.2009

M.S. Agriculture and Biosystems Engineering, water quality and natural resources. Minor in statistics – Iowa State University, Ames, IA. Dec. 2006.

*Thesis: Studies of PVC pipe permeation with near infrared spectroscopy (NIRS)\*\**

\*\* Iowa State University Research Excellence Award in fall 2006

M.S. Agronomy Engineering, soils and environment - University of Lleida (UDL),Lleida, Spain. Dec. 2004.

*Thesis: Leaching of a veterinary antibiotic through soil columns*

B.S. Food processing and Agriculture Engineering - University of Lleida (UDL), Lleida, Spain. June 2002.

*Final degree research: Enzymatic peeling of grapefruit*

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### **WORK EXPERIENCE:**

- Spring 2004: Managed national funding information and administrative papers for **Centro de Tecnica y Control, S.L.** engineering office for 4 months (Lleida, Spain).
- Summer 2003: 2 month internship in the **Soil Testing Lab**, in **Iowa State University** (Ames, Iowa).
- Spring 2003: Trainee for **University of Lleida (UDL)**, participated with the organization of the **Annual Pork Conference** in Mollerussa (Lleida, Spain).
- Summer 2002: 2 month internship in **Asociacion de Cooperativas del Valle del Ebro (ACVE)**, tinned food industry located in Balaguer (Lleida, Spain).
- November 2002: Expert work in some farms at **Copaga** farm cooperative requested by the **University of Lleida (UDL)** (Lleida, Spain).
- November 2002: Taught students for food handling certificate in the school “**L’escola**”, located in Almenar ( Lleida, Spain).
- November 2002: Carried out analyses on purified water in **Lamons** veterinary lab, located in Lleida (Spain).

- Summer 2001: 3 month internship in **LAF** (Analysis and Soil Fertility Laboratory) located in Sidamon (Lleida, Spain).
  - Summer 1999: 2 month internship in **Nufri**, Fruit Company set in Mollerussa (Lleida, Spain) specialized in the production of concentrates.
  - 1998-2001: Taught particular lessons of music and piano.
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#### **OTHER INFORMATION:**

- Languages: Spanish (native), Catalan (native), and English (Proficient). Can understand written Portuguese, French, and Italian.
  - Computer skills: Windows, Word, Power Point, basic Excel, basic AutoCAD, basic SAS system, basic S+, basic SPSS, basic The Unscrambler, basic Matlab.
  - Member of the Alpha Epsilon honor society of agricultural Engineering.
  - Member of the American Chemical Society.
  - Member of the Society for Applied Spectroscopy
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#### **SEMINARS ATTENDED:**

- 2006: Near infrared (NIR) spectral interpretation
  - 2006: Chemical imaging
  - 2002: New methods to preserve food
  - 2002: HPPCC system in agro food industry
  - 2002: Personnel safety technician (350 hours)
  - 2001: Basic course on Integral Quality Management in industry
  - 1999: European Company Quality Standard (EFQM)
  - 1999: Quality Assurance (ISO 9000)
  - 1999: Company Quality Management
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#### **PRESENTATIONS, POSTERS, AND PUBLICATIONS:**

- **S. K. Ong, Gaunt, J. A., Mao, F., Cheng C.-L., Esteve-Agelet, L., and Hurburgh, C.H. (2008)** *Impact of Hydrocarbons on PE/PVC Pipes and Pipe Gaskets*. Awwa Research foundation book, Infraestructure reliability subject area, project #2946.

- Esteve Agelet, L., Hurburgh, C.R., Mao, F., Gaunt, J.J., and Ong, S.K. (2007) *Permeation studies of PVC pipes with near infrared spectroscopy*. Journal of Near Infrared Spectroscopy, vol 15 (5), 283-289.
  - Oral presentation “Studies of PVC pipes permeation with Near Infrared (NIRS)”, International 13th International Conference on Near Infrared Spectroscopy (13th ICNIRS), Umea, Sweden, 17<sup>th</sup>-21<sup>st</sup> June, 2007.
  - Poster presentation “Measurement of Organic Solvent Permeation through PVC Pipes with Near Infrared Spectroscopy”, Pittcon, Chicago (IL), 25<sup>th</sup> February – 2<sup>nd</sup> March, 2007.
  - Poster presentation “Prediction of PVC pipes performance under permeation conditions”, International Diffuse Reflectance Conference (IDRC), Chambersburg (PY), 6<sup>th</sup> – 11<sup>th</sup> August, 2006.
  - Oral presentation “Antibiotic leaching in four soils of Iowa” American Society of Agriculture Engineers (ASAE) conference, St. Joseph (MO), 5<sup>th</sup> – 9<sup>th</sup> March, 2005.
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#### **PROJECTS AND ACTIVITIES:**

- Participation in the international friendship fair carried out in Iowa State University (Ames, IA), 2006.
- Stachyose and raffinose measurement in soybeans with near infrared (NIR), project for the Grain Quality Lab in Iowa State University (Ames, IA), 2006.
- Modeling GMO impurities in soybean harvesting: from conveyor to storage, project for the Grain Quality Lab in Iowa State University (Ames, IA), 2006.

*Revised 02/08*