

### Research Topics

- ✓ Valorization of lignocellulosic biomass using white biotechnologies and green chemistry
- ✓ Development of membrane processes at laboratory
- ✓ Recovery of bioactive compounds from by-products of agro-food industries
- ✓ Optimization of enzyme-catalysed reactions

### Present & previous positions

**Oct. 2017 – Present** – **Assistant Engineer of Process Engineering**, (with Dr. Clavijo Rivera) at Chaire Agro-Biotechnologies Industrielles (ABI) – AgroParisTech, Pomacle, France

- Development of membrane processes (in solvent and aqueous solvents) for recovery and purification of active compounds
- Downstream process : extraction, separation, purification
- Management of order, invoicing and budget

**Oct. 2014 – Sept. 2017** – **Research Technician of Process Engineering**, (with Dr. Teixeira) at Chaire Agro-Biotechnologies Industrielles (ABI) – AgroParisTech, Pomacle, France

- Development of membrane processes (in solvent and aqueous solvents) for recovery and purification of active compounds
- Downstream process : extraction, separation, purification
- Management of order, invoicing and budget

**March 2014 – Sept. 2014** – **Scientific Assistant**, (with Dr. Teixeira), at Chaire Agro-Biotechnologies Industrielles (ABI) – AgroParisTech, Pomacle, France

Project Enzymatic production of Resveratrol  $\alpha$  - glycosydes in ionic liquids

**April 2013 – June 2013** – **Research Assistant**, (with M. Mieloszynski and Mme Sindt), LCP-A2MC, Metz, France

Project Synthesis of polyelectrolytes with methacrylic and imidazolium functions

**April 2012 – June 2012** – **Research Assistant**, (with M. Kurtz), Eurovia Management, Woippy, France

Project Bibliographic research in order to set up a SEM and a GC-MS procedure

**April 2011 – June 2011** – **Scientific Assistant**, (with M. Marchandau), PSA Peugeot Citroën, Trémery, France.

Project Set up "Working Standards" and analysis procedure of an engine oil within a chemistry laboratory

## Education

**2013 – 2014 Master 2 in Chemistry, Natural Substances and Drug, path Production and Industrial Valorisation of Natural Substances**, Université de Reims Champagne-Ardenne, Reims, France

**2012 – 2013 Master I in Chemistry speciality Synthesis, Characterization, Environment**, Université de Lorraine, Metz, France

**2011 – 2012 Licence 3 in Physic and Chemistry speciality Chemistry**, Université de Lorraine, Metz, France

**2009 – 2011 DUT (University Degree) in Chemistry**, IUT de Saint-Avold, Saint-Avold, France

**2008 – 2009 Bac in Science (with honors)**, Lycée de la Communication, Metz, France

## Scientific production

### Publication in peer-reviewed journal :

[1] **From bench scale to kilolab production of renewable ferulic acid-based bisphenols: optimisation and evaluation of different purification approaches towards a technical feasibility and process environmental sustainability** A. R. S. Teixeira, G. Willig, J. Couvreur, A. L. Flourat, A. A. M. Peru, P. Ferchaud, H. Ducatel and F. Allais, Reaction Chemistry and Engineering, 2017

### Poster :

[1] **From bench scale to kilolab production of renewable ferulic acid-based bisphenols: optimisation and evaluation of different purification approaches towards a technical feasibility and process environmental sustainability** A. R. S. Teixeira, G. Willig, J. Couvreur, A. L. Flourat, A. A. M. Peru, P. Ferchaud, H. Ducatel and F. Allais, Reaction Chemistry and Engineering, 2017, ISGC2017 16-19 may 2017

## Supervision

- ✓ Catalina Quesada Salas for an internship (with Dr. Teixeira) in Master 2 from February to August 2017  
Project : Research of new valorization alternatives of winery by-products
- ✓ Hélène Auger for temporary contract (with Dr. Clavijo Rivera) from October 2017 to March 2018  
Project : By-products valorization

## Skills

### Downstream process :

- ✓ Extraction (S/L, L/L)
- ✓ Separation and purification : membrane processes, in solvent and aqueous solvents, at lab and pilot scale, Nanofiltration/Ultrafiltration/Microfiltration

### Analytical Methods :

- ✓ Chromatography (HPLC and GPC)
- ✓ NMR, UV-Vis, IR

### Others :

- ✓ Zetameter, Osmometer, Tensiometer,

## Language

**French** : Native Language

**English** : Professional

**Spanish** : Beginner

## Professional and scholarly associations

From 2015 CFM, Club Français des Membranes.