

Louis HOLLANDE

Polymer Chemistry

Graduate Student

Chaire ABI - AgroParisTech

3 rue des Rouges Terres

51110 Pomacle

louis.hollande@agroparistech.fr

Present & previous positions

Jav. 2016 -
Present

Graduate student at Chaire AgroBiotechnologies Industrielles (ABI) – AgroParisTech, Pomacle, France

Project: Antioxidant mechanisms of biobased phenolic additives during the production of resins.¹

Thesis supervisors: Dr. DOMENEK Sandra and Prof ALLAIS Florent

Visiting student researcher at Rensselaer Polytechnic Institute (USA)

<http://cebb-innovation.eu/>

<http://www.chaire-abi-agroparistech.com/>

<http://eng.rpi.edu/>

Sept. 2015 -
Dec. 2015

Junior chemical engineer at Chaire AgroBiotechnologies Industrielles (ABI) – AgroParisTech, Pomacle, France

Project: Biobased monomers and polymers from a naturally occurring phenolic dimer.²

Mar. 2015
Sept. 2015

Final year internship at Chaire AgroBiotechnologies Industrielles (ABI) – AgroParisTech, Pomacle, France

Project: Optimization of biocatalytic oxidative process for the synthesis of syringaresinol from sinapyl alcohol at a multigram scale (93% yield) in very high yield.³ Renewable α,ω -dienes have been prepared from this building block, syringaresinol, and further studied as monomers in ADMET polymerizations.⁴

Avr. 2014-
Jun. 2014

Laboratory internship at Institut de Chimie Moléculaire de Reims (ICMR) – Reims, France

Project: Synthesis of 2,5-Diformylfuran from Fructose or 5-(Hydroxymethyl)furfural an interesting building block for biobased polymer.

http://www.univ-reims.fr/minisite_68/

Jun. 2013 –
Sept. 2013

Industrial internship at Biscuit Bouvard, Ceyzériat, France

Project: Lab and industrial scale development of new organic products in food industry

<http://www.biscuits-bouvard.com/>

Education

- 2016 - Present: PhD in Polymer Chemistry** – Agroparistech institute, Paris, France
- 2013 – 2015: Master of sciences in Design and Production of Bioproducts** – Reims University, Reims, France
- 2010 – 2013: Bachelor of Sciences in Biology and Chemistry** – Lorraine University, Metz, France
- 2009 – 2010: High school degree, Jean XXIII** – Metz, France

Scientific production

International Communications:

- ✓ 253rd American Chemical Society - **San Francisco**, USA
- ✓ 4th International Symposium on Green Chemistry - **La Rochelle**, France
- ✓ International conference of the POLYMER PROCESSING SOCIETY – **Lyon**, France

Publications in peer-reviewed journals:

1. F. Diot-Néant, L. Migeot, L. Hollande, F. A. Reano, S. Domenek, and F. Allais, *Front. Chem.*, 2017, **5**, 1–10.
2. A. M. Janvier, L. Hollande, A. S. Jaufurally, M. Pernes, R. Ménard, M. Grimaldi, P. Balaguer, P. Ducrot, M. Janvier, L. Hollande, S. Jaufurally, and M. Pernes, *ChemSusChem*, 2017, **10**, 738–746.
3. A. S. Jaufurally, A. R. S. Teixeira, L. Hollande, F. Allais, and P.-H. Ducrot, *ChemistrySelect*, 2016, **1**, 5165–5171.
4. L. Hollande, A. S. Jaufurally, P.-H. Ducrot, and F. Allais, *RSC Adv.*, 2016, **6**, 44297–44304.