

## Europass curriculum vitae

### *Personal information*

Surname(s) / First name(s) **LUZI FRANCESCA**

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Nationality(-ies) Italian

Date of birth 19/04/1985

Gender married

### *Education and training*

**2012:** PhD student in Civil Engineering and Innovative Materials, University of Perugia.  
**A-A 2009/2012:** Master's degree in Materials Engineering (15/10/2012) - Mark: 110/110.  
**Thesis Title:** “Design, development and characterization of biodegradable polymer nanocomposites reinforced with cellulose nanocrystals and silver nanoparticles”.  
Supervisor: Prof. Luigi Torre.

**September- October 2012:** Steel Master ICSIM

**Thesis Title:** “Hot plastic deformation: lamination and defects”.

**A-A 2009/2012:** Degree in Materials Engineering (15/10/2009)

**Thesis Title:** “The contribution of agricultural food chain to climatic change: predisposition of a questionnaire to evaluate CO<sub>2</sub> emissions”. Supervisor: Prof. Umberto Desideri.

### *Publications*

1. *Binary PVA bio-nanocomposites containing cellulose nanocrystals extracted from different natural sources: Part I.E.* Fortunati, D. Puglia, **F. Luzi**, C. Santulli, J. M. Kenny, L. Torre. Carbohydrate Polymers 2013, 97, 825-836.
2. *Ternary PVA nanocomposites containing cellulose nanocrystals from different sources and silver particles: Part II.* E. Fortunati, **F. Luzi**, D. Puglia, A. Terenzi, M. Vercellino, L. Visai, C. Santulli, L. Torre, J. M. Kenny. Carbohydrate Polymers 2013, 97, 837-848.
3. *Optimized extraction of cellulose nanocrystals from pristine and carded hemp fibres.* **F. Luzi**, E. Fortunati, D. Puglia, M. Lavorgna, C. Santulli, J. M. Kenny, L. Torre. Industrial Crops & Products, 56, (2014) 175–186.
4. *Investigation of thermo-mechanical, chemical and degradative properties of PLA-limonene films reinforced with cellulose nanocrystals extracted from Phormium tenax leaves.* E. Fortunati, **F. Luzi**, D. Puglia, F. Dominici, C. Santulli, J.M. Kenny, L. Torre. European Polymer Journal, 2014, 56, 77-91.
5. *Revalorization of Posidonia Oceanica as reinforcements in polyethylene/maleic anhydride grafted polyethylene composites.* D. Puglia, R. Petrucci, E. Fortunati, **F. Luzi**, J.M. Kenny, L. Torre. Journal of Renewable Materials, 2104, 2, 66-76.

***Project , conference and participations at schools***

**PROJECTS**

**SAMSUNG, GRO 2012:** Programme: “Multifunctional composites based on biopolymers and biobased additives for food packaging applications”,

**CONGRESS**

**International COST Conference, “Eco-sustainable food packaging based on polymer nanomaterials” – 26-28 February 2014-Rome (Italy).** *Title: Combined effect of cellulose nanocrystals extracted from phormium tenax leaves and limonene on the properties of PLA films.* E. Fortunati, D. Puglia, **F. Luzi**, L. Torre, C. Santulli, J.M. Kenny (Poster).

**BIOPOL 2013, 1-3 October Roma** “*Effect of cellulose nanocrystals extracted from Phormium leaves on the final properties of limonene modified PLA films* ”, D. Puglia, E. Fortunati, **F. Luzi**, L. Torre, C. Santulli, J.M. Kenny. (Poster)

“*Multifunctional composites based on biopolymers and biobased additives for food packaging applications*”, I. Armentano, E. Fortunati, F. Dominici, **F. Luzi**, N. Burgos, A. Jimenez, J.M. Kenny, J. Ahn, S. Kang, M. Kim, K. Yoon. (Poster)

**4th Workshop Green Chemistry and Nanotechnologies in Polymer Chemistry, 4-6 September 2013, Pisa**

“*Optimized extraction of cellulose nanocrystals from pristine and carded Hemp*”, **F. Luzi**, E. Fortunati, D. Puglia, C. Santulli, L. Torre, J. M. Kenny. (Oral communication and Poster)

**IX Convegno Nazionale INSTM: 30 June 3 July 2013, Bari**

“*Ternary PVA nanocomposites containing cellulose nanocrystals and silver nanoparticles*”, **F. Luzi**, E. Fortunati, D. Puglia, A. Terenzi, M. Vercellino, L. Visai, C. Santulli, L. Torre, J.M. Kenny (Poster).

**SCHOOLS**

- **19° Scuola AIMAT Forum: Innovazioni emergenti nei materiali e nelle tecnologie**, 17 -20 July 2013, Ischia

-**ALPlastic Summer School: New Trend in plastics engineering**, 9-11 July 2013, Bellignat (Francia)

**LECTURES**

- “**FISH ‘N’ ROBOTS not a take a food**”, Perugia , Prof. Maurizio Porfiri 9 October 2013

-“**Riciclo di materiali polimerici**” , Terni, Prof. Verney, 20-24 e 27 May 2013

- “**Biodegradabilità**” , Terni, Prof . A. Jimenez, 15 -17 May 2013

- “**Selected Topics on Building Materials**”, Perugia, Prof. K. Kovler of Israel Institute of Technology 10-12 April 2013

***Mother tongue(s)*** Italian

***Other language(s)*** English (Intermediate)  
French (Intermediate)

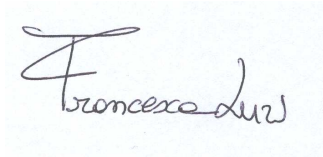
***Computer skills and competences*** Microsoft Office (Word, Excel, PowerPoint), Internet explorer, Windows, KaleidaGraph, Origin.

***Driving licence(s)*** Type B

I authorize to handle my personal data according to the ex D. LGS. 196/03.  
Aut No Min 13/I/0007145/03.04 of April 1 2008.DPR 196/2003

Terni, 07/07/2014

Francesca Luzi

A handwritten signature in black ink, appearing to read 'Francesca Luzi', is written over a light blue rectangular background.