

Attachment 'C'

University Academic Curriculum Vitae

Personal information

Name: Vittoria Benedetti
Nationality: Italian

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Education since leaving school

- 2012, Bachelor Degree in Energy Engineering (Università degli Studi di Padova, Italy).
- Spring 2014, semester abroad at Boston University, Boston, MA, USA.
- 2015, Master Degree in Energy Engineering (Università degli Studi di Padova, Italy).
- June 2019, PhD in Sustainable Energy and Technologies (Free University of Bolzano).

Present appointment

- Research associate
November 2018
Faculty of Science and Technology, Free University of Bolzano

Professional experience

From / to	Job title	Name of academic Institution	Academic level	Responsibilities
March-May 2015	Internship	PNNL, Pacific Northwest National Laboratory, Richland, WA, USA.	Intern	
October 2017 – March 2018	Visiting PhD student	KIT, Karlsruhe Institute of Technology, Karlsruhe, Germany.	PhD student	
November 2018 - today	Research associate	Free University of Bolzano	Research associate	

Projects

Team member in the following projects involving the Faculty of Science and Technologies of the Free University of Bolzano:

- NEXT: Novel EXTension of biomass poly-GENERATION to small-scale gasification systems in South-Tyrol (2016-2017).
- BIO2LIQ: BIOmass-to-LIQuid as a strategy to enhance gasification potential in a biorefinery perspective (2016-2018).
- PyroTyre: Analysis of the pyrolysis process applied to tyres and plastic residues (2017).
- GAS SOLUTION: Analysis of European small scale GASification technologies and identification of new SOLUTIONs (2017-2018).

- HB PONICS: Hydrothermal carbonization of Biogas digestate for hydroPonics: an innovative concept of bio-refinery (2018-2020).

Experience in academic teaching

- Energetics - Exercises, Free University of Bolzano, under-graduate level.

Other academic responsibilities

- PhD student representative, 2017-2018.

Research and scholarships

Date granted	Award Holder(s)	Funding Body	Title	Amount received
March 2015	Vittoria Benedetti	Fondazione Scipione Maffei and Bartucci Spa	Borsa di studio Scipione Maffei	3200 €
February 2018	Vittoria Benedetti	DAAD, Germany	Short-term Grants	2250 €

Publications

Proceedings:

- *Benedetti V.*, Patuzzi F., Baratieri M., "Gasification char as potential substitute of activated carbon in adsorption applications", *Energy Procedia*, 105 (2017) 712-717.

<https://doi.org/10.1016/j.egypro.2017.03.380>

- *Benedetti V.*, Patuzzi F., Baratieri M., "Biomass gasification char as a low-cost adsorbent for CO₂ capture", 25th European Biomass Conference and Exhibition (EUBCE), Stockholm, Sweden, (2017) 760-764.

ISSN: 22825819

- *Benedetti V.*, Ail S.S., Patuzzi F., Rauch R., Baratieri M., "Valorization of char from biomass gasification as catalyst support: preliminary results of Fischer-Tropsch tests", 26th European Biomass Conference and Exhibition (EUBCE), Copenhagen, Denmark, (2018).

doi: [10.5071/26thEUBCE2018-3BO.3.1](https://doi.org/10.5071/26thEUBCE2018-3BO.3.1)

Journal papers:

- *Benedetti V.*, Patuzzi F., Baratieri M., "Characterization of char from biomass gasification and its similarities with activated carbon in adsorption applications", *Applied Energy*, 2017, in press.

<https://doi.org/10.1016/j.apenergy.2017.08.076>

- *Ail S.S.*, Benedetti V, Baratieri M., Dasappa S., "Fuel-Rich combustion synthesized Co/Al₂O₃ catalysts for wax and liquid fuel production via Fischer-Tropsch reaction", *Industrial and Engineering Chemistry Research*, 57 (2018) 3833-3843.

<https://doi.org/10.1021/acs.iecr.7b04174>

- *Benedetti V., Ail S.S., Patuzzi F., Baratieri M., Valorization of char from biomass gasification as catalyst support in dry reforming of methane, Front. Chem. (2019) 7:119.*

doi: 10.3389/fchem.2019.00119

- *Benedetti V., Cordioli E., Patuzzi F., Baratieri M., CO2 adsorption study on pure and chemically activated chars derived from commercial biomass gasifiers, J. CO2 util. 33 (2019) 46 - 54.*

doi: 10.1016/j.jcou.2019.05.008

- *Vakalis S., Moustakas K., Benedetti V., Cordioli E., Patuzzi F., Loizidou M., Baratieri M., The "COFFEE BIN" concept: centralized collection and torrefaction of spent coffee grounds, Environ Sci Pollut Res (2019).*

doi: 10.1007/s11356-019-04919-3

**Language
competence**

ENGLISH (2019)

Understanding		Speaking	Writing
Reading	Listening	C1	C1
C2	C1		

GERMAN (2019)

Understanding		Speaking	Writing
Reading	Listening	B1	B1
B1	B1		

Date: 21/05/2019

Signature

