

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n. 1 posto/i di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera a) della Legge 240/2010 nell'ambito del Piano Nazionale di Ripresa e Resilienza (PNRR), per il settore concorsuale 07/E1, settore scientifico-disciplinare

AGR/13 presso il Dipartimento di DISAA
(avviso bando pubblicato sulla G.U. n. del) Codice concorso 5106

[Nome e cognome] CURRICULUM VITAE

(N.B. IL CURRICULUM NON DEVE ECCEDERE LE 30 PAGINE E DEVE CONTENERE GLI ELEMENTI CHE IL CANDIDATO RITIENE UTILI AI FINI DELLA VALUTAZIONE.

LE VOCI INSERITE NEL FACSIMILE SONO A TITOLO PURAMENTE ESEMPLIFICATIVO E POSSONO ESSERE SOSTITUITE, MODIFICATE O INTEGRATE)

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	SHCHEGOLIKHINA
NOME	ANASTASIA
DATA DI NASCITA	[Giorno, mese, anno] 14.05.1984

TITOLI

TITOLO DI STUDIO

(indicare la Laurea conseguita inserendo titolo, Ateneo, data di conseguimento, ecc.)

September 2005 – June 2007	Master's thesis: <i>Biochemical properties of drained and virgin peats of the Tomsk region</i> Graduation with honour: Master of Soil Science Department of Soil Science and Soil Ecology, Biological Institute, Tomsk State University (Tomsk, Russia)
February 2007	Research practical training: <i>Chemical analyses of the humic substances extracted from peats</i> Faculty of Chemistry, Tyumen State Agricultural Academy (Tyumen, Russia)
May – October 2006	Research practical training: <i>Sampling and analyses of the peat materials and ground waters of the Great Vasyugan Mire</i> Faculty of Biology and Chemistry, Tomsk State Pedagogical University (Tomsk, Russia)
September 2001 – June 2007	Bachelor's thesis: <i>Properties of chernozems in Tomsk region</i> Graduation with honour: Bachelor of Soil Science Department of Soil Science and Soil Ecology, Biological Institute, Tomsk State University (Tomsk, Russia)

TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA

DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

(inserire titolo, ente, data di conseguimento, ecc.)

19 July 2013

PhD studies: *Effects of soil organic matter molecular conformation and substrate additions on the formation and release of xenobiotics bound residues*

Graduation: PhD in Natural Sciences

Supervisor: Prof. Bernd Marschner, Geographical Institute, Ruhr-University Bochum (Bochum, Germany)

CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI

(per ciascun contratto stipulato, inserire università/ente, data di inizio e fine, ecc.)

November 2020 – October 2022

Postdoc ('assegno di ricerca') in the group of Prof. Luca Bechini, Department of Agricultural and Environmental Sciences, University of Milan (Milan, Italy). EIP-AGRI Project: *X-COVER - Innovations to extend the use of cover crops in Lombardy*.

June – July 2018

Short-term research work under supervision of Dr. Sabine Rolland du Roscoat, 3SR Laboratory – Laboratoire Sols, Solides, Structures, Risques and Prof. Jean Martins, Institute of Geosciences and Environment, Université Grenoble Alpes (Grenoble, France). Project: *X-ray microtomography study of a biofilm growth within 3D-printed copy of a soil pore network*.

October 2016 – April 2019

Postdoc ('assegno di ricerca') in the group of Prof. Monica Riva, Department of Environment and Civil Engineering, Politecnico di Milano (Milan, Italy). Project: *Transport of heavy metals through the soil porous media*.

ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

(inserire anno accademico, ateneo, corso laurea, numero ore, ecc.)

Course of laboratory practice "Soil chemistry" for bachelor students, Geographical Institute, Ruhr-University Bochum, 1 semester

DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

(inserire anno accademico, ente, corso, periodo, ecc.)

Supervising of research and study activities ('tirocinio') of international bachelor and master students

DOCUMENTATA ATTIVITÀ IN CAMPO CLINICO

(indicare, data, durata, ruolo, ente presso il quale si è prestata attività assistenziale, ecc.)

REALIZZAZIONE DI ATTIVITÀ PROGETTUALE. ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI, O PARTECIPAZIONE AGLI STESSI

(indicare data, progetto, ecc.)

August 2007 - July 2013	<i>SPP1315: Biogeochemical interfaces in soil</i> , international project (Germany, Austria), role: researcher
November 2020 – October 2022	<i>X-COVER - Innovations to extend the use of cover crops in Lombardy</i> , national research project (Lombardy, Italy), role: researcher

TITOLARITÀ DI BREVETTI

(per ciascun brevetto, inserire autori, titolo, tipologia, numero brevetto, ecc.)

ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

(inserire titolo congresso/convegno, data, ecc.)

Oral and poster presentations of the research results at the conferences: Annual Meeting of the German Soil Science Society (2007, 2009), EUROSOIL (2008), International Annual Meeting of the Soil Science Society of America (2009), Annual Meeting of the International Humic Substances Society (2008, 2012), Annual Meeting of the SPP 1315 “Biogeochemical Interfaces in Soil” (2007–2012)

Attended courses and workshops

February 2021: Course in statistical methodology “Linear models – general and generalized” organized by Italian Society of Agronomy (online).

October 2017: Workshop “X-ray image analyses of soils” organized by Dr. John Koestel, Department of Soil and Environment, Swedish University of Agricultural Sciences (Uppsala, Sweden).

February – May 2017: Research practical training “3D-printing using different materials: from nano- to macro-scales”. Supervisor: Prof. Marinella Levi, Chemistry, Material and Chemical Engineering Department “Giulio Natta”, Politecnico di Milano (Milan, Italy).

February 2017: Workshop “Intellectual Property Fundamentals” organized by Technology Transfer Office of the Politecnico di Milano (Milan, Italy).

January 2017: One day discussion scientific meeting “From real soil to 3D-printed soils: reproduction of complex pore network at the real size” with Dr. Nicola Dal Ferro, Department of Environmental Agronomy and Crop Production, University of Padova (Padova, Italy).

October 2010: Research practical training “Pore water extractability of xenobiotics from soils”. Supervisor: Prof. Martin Elsner, Institute of Soil Ecology, German Research Center for Environmental Health, Helmholtz Zentrum München, (Munich, Germany).

April 2010: Scientific skill workshop “Advanced professional communication” organized by the Ruhr University Research School (Bochum, Germany).

August 2009: Scientific skill workshop “Basic scientific presentation” organized by the Ruhr University Research School (Bochum, Germany).

September 2008: Scientific Summer School “Chemicals in soil: Interactions, availability and residue formation” organized in Helmholtz Centre for Environmental Research (Leipzig, Germany).

May 2008: Research practical training “Soil microbiology and enzymes”. Supervisor: Dr. Andrey Yurkov, Faculty of Biology and Biotechnology, Ruhr-University Bochum (Bochum, Germany).

September 2007: International Scientific Summer School “Natural organic matter: A resource for environment and nanotechnologies” organized by Prof. Alessandro Piccolo, Department of Agricultural Sciences, University of Naples Federico II (Naples, Italy).

CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA

(inserire premio, data, ente organizzatore, ecc.)

Prize for the best poster presentation at the Italian Society of Agronomy National Meeting (Italy) – 2021
Ruhr-University Research School Prize for PhD students (Germany) – 2007

POSSESSO DEL DIPLOMA DI SPECIALIZZAZIONE EUROPEA RICONOSCIUTO DA BOARD INTERNAZIONALI (relativamente a quei settori concorsuali nei quali è prevista)

(indicare diploma, data di conseguimento, ecc.)

TITOLI DI CUI ALL'ARTICOLO 24 COMMA 3 LETTERA A) E B) DELLA LEGGE 30 DICEMBRE 2010, N. 240

(indicare se contratto di tipologia A o B, Ateneo, data di decorrenza e fine contratto, ecc.)

PRODUZIONE SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)

Gabbrielli, M., **Shchegolikhina, A.**, Bechini, L. *Submitted*. Agronomic effect of autumn-winter cover crops in northern Italy. European Journal of Agronomy.

Shchegolikhina, A., Manenti, D., Torrente, M., Soffietti, P., Bonini, S., Chitia, J., Bechini, L., Calcante, A., Oberti, R. 2022. Multi-parametric evaluation of mechanical termination of cover crops: experimental procedures and preliminary results. Proceedings of the AISSAunder40 Conference. www.aissaunder40.com. Online publication.

Shchegolikhina, A., Cavalli, D., Gabbrielli, M., Bechini, L., Marino Gallina, P. 2021. Innovazioni per estendere l'uso delle colture di copertura (X-COVER): prove agronomiche e modellistica / Innovations to extend the use of cover crops (X-COVER): agronomic and modelling studies. www.covercrop.it Online publication.

Gabbrielli, M., Acutis, M., Marino Gallina, P., Perego, A., **Shchegolikhina, A.**, Tadielo, T., Bechini, L. 2021. Growth and nitrogen uptake of winter and summer cover crops. Proceedings of the Italian Society of Agronomy 50th National Meeting: Evolution of Agronomic Systems in Response to Global Challenges. www.siagr.it Online publication.

Diehl, D., Schwarz, J., Goebel, M.-O., Woche, S.K., Schneckenburger, T., Krüger, J., **Shchegolikhina, A.**, Marschner, B., Lang, F., Thiele-Bruhn, S., Bachmann, J., Schaumann, G.E. 2014. Effect of multivalent cations, temperature, and aging on SOM thermal properties. Journal of Thermal Analysis and Calorimetry 118(2), 1203-1213.

Diehl, D., Schneckenburger, T., Krüger, J., Goebel, M.-O., Woche, S.K., Schwarz, J., **Shchegolikhina, A.**, Lang, F., Marschner, B., Thiele-Bruhn, S., Bachmann, J., Schaumann, G.E. 2014. Effect of multivalent cations, temperature and aging on soil organic matter interfacial properties. Environmental Chemistry 11, 709-718.

Shchegolikhina, A., Kunhi Mouvenchery, Y., Woche, S.K., Bachmann, J., Schaumann, G.E., Marschner, B. 2014. Cation treatment and drying-temperature effects on nonylphenol and phenanthrene sorption to a sandy soil. Journal of Plant Nutrition and Soil Science 177(2), 141-149.

Shchegolikhina, A., 2013. Chapter V: Effects of gamma-irradiation, storage and incubation on enzyme activities in a sandy soil treated with different salts. In: Effects of soil organic matter molecular conformation and substrate additions on the formation and release of xenobiotics bound residues. PhD thesis, Ruhr-University Bochum. www.bibliographie.ub.rub.de Online publication.

Shchegolikhina, A., Marschner, B. 2013. Effects of sterile storage, cation saturation and substrate additions on the degradability and extractability of nonylphenol and phenanthrene in soil. Chemosphere 93(9), 2195-2202.

Shchegolikhina, A., Marschner, B. 2013. Effects of cation saturation, substrate addition, and aging on the mineralization and formation of non-extractable residues of nonylphenol and phenanthrene in a sandy soil. In: Xu J., Wu J., He Y. (eds) Functions of Natural Organic Matter in Changing Environment. Springer, Dordrecht. 673-677.

Shchegolikhina, A., Schulz, S., Marschner, B. 2012. Interacting effects of cation saturation and drying, freezing, or aging on the extractability of nonylphenol and phenanthrene from a sandy soil. *Journal of Soils and Sediments* 12, 1280-1291.

Jaeger, F., **Shchegolikhina, A.**, van As, H., Schaumann, G.E. 2010. Proton NMR relaxometry as a useful tool to evaluate swelling processes in peat soils. *The Open Magnetic Resonance Journal* 3, 27-45.

Shchegolikhina, A., Marschner, B. 2009. Effects of soil organic matter confirmation and substrate additions on the formation and release of xenobiotic bound residues. *Proceedings of the ASA-CSSA-SSSA International Annual Meeting, Pittsburg, USA.* www.scisoc.confex.com Recorded presentation.

Data

14.10.2022

Luogo

Milano

A. Shchegolikhina