CURRICULUM VITAE

PERSONAL INFORMATION

Ing. Jakub Houška, Ph.D., D.E.S.S.

9, Arbesova, Brno, 63800, Czech Republic
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Sex Male | Date of birth 14/11/1976 | Nationality Czech

WORK EXPERIENCE

1.4.2012 – till now — Researcher

Department of Soil Science and Soil Protection, Faculty of Agrobiology, Food and Natural Resources, Czech University of Life Sciences

- Research and education in the field of soil science

Research&education

1.7.2009 – 30.9.2011 — Asset Manager, Quality Analyst, Project Manager

IBM IDC Brno

- Asset Management, Quality Analyst, Project Manager

Management/Quality Analyses

1.7.2009 – 30.9.2012 — Lecturer

Department of Forest Botany, Dendrology and Geobiology, Deparment of Landscape Management, Faculty of Forestry and Wood Technology, Mendel University Brno

- Courses and field trips in the frame of the projects "*Management of natural resources in tropics and subtropics - study programs innovation at FFWT MUAF in Brno" (No. CZ.1.07/2.2.00/07.0156)* and "*Support of practical competencies in regional development engineering*" (No. CZ.1.07/2.2.00/28.0303).

Research&education

2003 – 30.6.2009 — Research assistant

Department of Pedology and Geology, Faculty of Forestry and Wood Technology, Mendel University Brno

- Courses of Forest Geology and Forest Pedology, Regional Geology.
- Research focused on forest soil chemistry, comparison of virgin and humand-affected forests, etc.

Research&education

EDUCATION AND TRAINING

2000 - 2008 **Ph.D.**

Mendel University of Agriculture and Forestry, Faculty of Forestry and Wood Technology

Program: Landscape Ecology, Field: Forest Ecology
Dissertation Thesis: *Dynamics of soil properties in natural and semi-natural forest ecosystems: comparative analyses of selected forest soils' properties.*

2001 - 2002 **D.E.S.S. (Diplôme d'études supérieures spécialisées) - Master's degree (Remote Sensing and GIS).**

Université Pierre et Marie Curie (Paris VI)

- Remote Sensing and GIS

1995 - 2000 **Ing. - Master's degree**

Faculty of Forestry and Wood Technology (FFWT), Mendel University of Agriculture and Forestry (MUAF)

- Forest Engineering

SPECIAL PERSONAL SKILLS

Mother tongue(s) Czech

Other languages English (state examination), French (DELF2) – active
Spanish, German, Russian – inactive

Other skills Statistical programs: R freeware for statistical computing, EstimateS, Canoco.

ADDITIONAL INFORMATION

Publications

Scientific papers:

Submitted:

Navrátil T., Rohovec J., Dobešová I., Matoušková Š., Oulehle F., Houška J., Cudlín P. Legacy mercury and stoichiometry with C, N and S in soil, litter and soil solution of adjacent coniferous and deciduous stands at extremely acidified Ore Mountains, Czech Republic. *Environmental Monitoring and Assessment.*

Published:

Ash Ch., Tejnecký V., Šebek O., Houška J., Chalac A.T., Drahotad P., Drábek O. Redistribution of cadmium and lead fractions in contaminated soil samples due to experimental leaching. *Geoderma*. 2015, vol. 241-242, p. 126-135.

Kučera A., Šikl J., Oulehle F., Šamonil P., Marosz K., Hleb R., Houška J., Hruška J. Comparison of modern and traditional methods of soil sorption complex measurement: The basis of long-term studies and modelling. *Ekológia (Bratislava)*. 2014, vol. 33, no. 1, p. 48–59.

Houšková, K., Martiník, A., Palátová, E., Cafourek, J., Houška, J.: Lze zlepšit vzcházivost osiva douglasky tisolisté? *Zprávy lesnického výzkumu*. 2014, vol. 59, no 4, p. 256-263. ISSN 0322-9688.

Janků J., Kučerová D., Houška J., Kozák J., Rubešová A. The evaluation of degraded land by application of the contingent method. *Soil & Water Research.* 2014, no. 9, p. 214–223.

Hruška J., Oulehle F., Šamonil P. et al. Long-term forest soil acidification, nutrient leaching and vegetation development: Linking modelling and surveys of a primeval spruce forest in the Ukrainian Transcarpathian Mts. *Ecological Modelling*. 2012, vol. 244, p. 28-37. DOI: 10.1016/j.ecolmodel.2012.06.025.

Hédl R., Houška J., Banas M, et al. Effects of skiing and slope gradient on topsoil properties in an alpine environment. *Polish Journal of Ecology*. 2012, vol. 60, no. 3, p. 491-501.

Šamonil P., Valtera M., Bek S. et al. Soil variability through spatial scales in a permanently disturbed natural spruce-fir-beech forest. *European Journal of Forest Research*. 2011, vol. 130, no. 6, p. 1075-1091. DOI: 10.1007/s10342-011-0496-2.

Šebesta J., Šamonil P., Lacina, J. et al. Acidification of primeval forests in the Ukraine Carpathians: Vegetation and soil changes over six decades. Forest Ecology and Management. 2011, vol. 262, no. 7, p. 1265-1279. DOI: 10.1016/j.foreco.2011.06.024.

Oulehle F., Hleb R., Houška J.,et al. Anthropogenic acidification effects in primeval forests in the Transcarpathian Mts., western Ukraine. *Science of the Total Environment*. 2010, vol. 408, No. 4, p. 856-864. DOI: 10.1016/j.scitotenv.2009.10.059.

Houška J., Schejbalová H. The dynamics of selected soil properties over 60 years in natural forest ecosystems: General tendencies and internal dynamics. *Ekológia-Bratislava*. 2004, vol. 23, p. 66-79.

Certificated methodolgies

Borůvka, L. et al. Evaluation methodology of forest soil contamination, Methods for the Forest Soils Pollution Assessment , Forest Soils; Pollution; Potentially Toxic Elements; Persistent Organic Pollutants; Toxicity; Analytical Methods, 2013.

Conferences

Houška J., Kratina J., Cafourek J., Vašát R., Němeček K., Borůvka L. Stanovení půdních vlastností pomocí difúzní spektroskopie ve viditelném a a infračerveném spektru: vliv metody selekce vzorků a memory-based learning algoritmus v porovnání s PLSR – nová perspektiva pro zemědělce? In: Čapkovičová D. et al. *Pedologické dny: Ekosystémové zložky pôd v poľnohospodárskej a lesnej*

krajine (sborník abstraktů). Bratislava: Výskumný ústav pôdoznalectva a ochrany pôdy, 2014, p. 35.

Tejnecký V., Šlechtová M., Tomková A., Říhová D., Šebek O., Houška J., Drábek O. Vliv vegetačního porostu na zastoupení nízkomolekulárních organických kyselin v lesních půdách. 2014, In: Čapkovičová D. et al. *Pedologické dny: Ekosystémové zložky pôd v poľnohospodárskej a lesnej krajine (sborník abstraktů).* Bratislava: Výskumný ústav pôdoznalectva a ochrany pôdy, 2014, p. 33.

Houška J., Veska J., Šebesta J. Acidifcation dynamics of forest soils in Ukraine Carpathians after 60 years and reaction of plant communities. In: HŮNOVÁ, I. *Acid Rain 2005*. Prague: Czech Hydrometeorological Institute, 2005, p. 538. ISBN 80-86690-25-3.

Hruška J., Houška J. Application of soil analyses, repeated after 60 years, for acidification modeling using MAGIC model. In: HŮNOVÁ, I. *Acid Rain 2005*. Prague: Czech Hydrometeorological Institute, 2005, p. 462. ISBN 80-86690-25-3.

Projects/stays abroad

2000 (IX–XII)	Aristotle University, Thessalonica (Faculty of Geotechnical Sciences, Department of Forestry and Natural Environment – 3 months), Greece.
2001 (IX) - 2002 (VI)	GDTA Toulouse, CIRAD Montpellier, Université Pierre et Marie Curie (Paris VI) diploma D.E.S.S. (Diplôme d'études supérieures spécialisées)
2002 (IV)	Field survey in the Concouati-Douli National Park, Republic of the Congo
2005 (V)	University Metz, France
2006 (V)	E.T.S.I. de Montes, Madrid, Spain
2006	Degradation rate of natural forest soils during last 70 years, out of the influence of local pollution resources. Internal Grant Agency, MUAF Brno.
2007 - 30.6.2009	the main investigator on behalf of MUAF of the project Grant Agency of the Czech Republic No. 526/07/1187 „Soil acidification in natural forest ecosystems out of local pollution resources. Current state and prediction"
2007 (IV)	-Swedish University of Agricultural Sciences, Uppsala, Sweden -North Karelia University of Applied Sciences Forest and Wood Technology Joensuu, Finland
2008 (XII)	Département de géographie, Université de Montréal; Ministère des Ressources naturelles et de la Faune, Québec, Canada
2009 (VI)	Socotra (Republic of Yemen) : field survey in the frame of the project : "Management of natural resources in tropics and subtropics - study programs innovation at FFWT MUAF in Brno" (č. CZ.1.07/2.2.00/07.0156)
2011 (I)	Socotra (Republic of Yemen) : field survey in the frame of the project : "Management of natural resources in tropics and subtropics - study programs innovation at FFWT MUAF in Brno" (č. CZ.1.07/2.2.00/07.0156)
2012 (I-II)	Socialist Republic of Vietnam : field survey in the frame of the project : "Management of natural resources in tropics and subtropics - study programs innovation at FFWT MUAF in Brno" (č. CZ.1.07/2.2.00/07.0156)

2013 (II)	Peru: Universidad National Agraria de la Selva Tingo María, field survey in the frame of the project "Support of practical competencies in regional development engineering" (No. CZ.1.07/2.2.00/28.0303)
2013 (XII)	Peru: Universidad National de Ucayali, Universidad National Agraria la Molina, field survey
Memberships	Czech Society of Soil Science, ProSilva Bohemica, Czech Association for Agroforestry