Curriculum Vitae

Personal information

First name / Surname	Katline CHARRA-VASKOU
Address(es)	INRA Site de Crouël, 5 chemin de Beaulieu, 63039 Clermont Ferrand Cedex 2, France
Telephone	+33473624366
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Nationality	French
Date of birth	29/04/1983
Gender	Female

Personal statement and statement of intent	I did my PhD at the Institute of Botany (University of Innsbruck, Austria) to be specialist with different methods on trees eco-physiology. I just started my Post-Doc in INRA, Clermont Ferrand (France) which has long term plant eco-physiology experience, particularly in analysis of frost resistance. I will apply for fixe positions in the next years.

Education and training

Location and dates	Clermont-Ferrand (France) 2012-2015
Title of qualification awarded	Post-doctoral position
Principal subjects/occupational skills covered	Freezing damage, Cold hardiness, Ultrasonic Acoustic Emissions, Winter embolism, Freeze/thaw cycles, Trees Timberline.

	Familiar with numerous plants physiological methods, particularly Acoustic Emissions system and X-Ray µtomography, and specialist for drought and frost stress, as well as teaching.
Name of Institute	INRA UMR PIAF (France)
Location and dates	Innsbruck (Austria) 2007-2011
Title of qualification awarded	European PhD on “Conifer needles: hydraulic efficiency and safety in the context of tree hydraulic architecture”, 25th October 2011.
Principal subjects/occupational skills covered	Tree architecture, Hydraulic conductivity and loss of conductivity, hydraulic safety, drought stress, cavitation, embolism, xylem, non-vascular components, conifer, needles Familiar with numerous plants physiological methods and specialist for drought and frost stress, as well as teaching.
Name of Institute	Institute of Botany, University of Innsbruck (Austria)
Location and dates	Innsbruck (Austria) 2006 (January to June)
Title of qualification awarded	2nd year Master thesis: ”Patterns of embolism and water potential within trees (Norway Spruce) at the alpine timberline in winter”. Institute of Botany, University of Innsbruck (Austria). Under supervision of S. Mayr.
Principal subjects/occupational skills covered	Tree hydraulic architecture, loss of hydraulic conductivity, winter drought stress, water potentials, growing conditions at the timberline. Research training and learning techniques related to tree eco-physiology.
Name of Institute	Institute of Botany, University of Innsbruck (Austria)
Location and dates	Paris (France) 2006 (September to January)
Title of qualification awarded	2nd year Master “Ecology Biodiversity Evolution“.

	Main option:"Plants functioning in their environment ».
Principal subjects/occupational skills covered	Global change, Statistics for ecology, Biodiversity and ecosystems functioning, Engineering and Environmental Services, Trees and Wood
Name of Institute	University of Paris-Orsay, University Curie, "Institut National Agronomique de Paris-Grignan" (INAPG), "Ecole Normale Supérieure" (ENS) of Paris.
Location and dates	Grenoble (France) 2005 (April to Mai)
Title of qualification awarded	1st year master thesis: "Growth dynamics and nitrogen economy in thermic and snowy situations: the exemple of alpin Cariceae"
Principal subjects/occupational skills covered	Alpin meadow, thermic and snowy situations, nutriment gradient, leaf growth, leaf nitrogen concentration Nitrogen and carbon amount, phenologycal measurements
Name of Institute	Laboratory of Alpine Ecology (LECA) Grenoble (France)
Location and dates	Grenoble (France) 2004-2005 (September to March)
Title of qualification awarded	1st year of Master "Biodiversity, Ecology, Environment "
Principal subjects/occupational skills covered	Ecology and Evolution, Ecosphere and Environment, Methods in ecology, environment and development, functional ecology….
Name of Institute	University of Grenoble (France)

Work experience

Location and dates	Bourg-Saint-Maurice (France) Summers 2007-2009
Occupation or position held	Mountain walking guide
Main activities and responsibilities	Guidance and security management, transmission of outdoor activities techniques, improvement of physical and technical abilities, mediation to mountain environment discovery (naturalistic, heritage and human aspects) with different audiences.
Name of employer	Village Vacances Renouveau

Languages

Mother tongue(s): French

Other language(s)	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
German	B1	B1	B2	B1	B1

(*) Common European Framework of Reference for Languages
http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr

Academic Record

Publications

CHARRIER G., **CHARRA-VASKOU K.**, KASUGA J., COCHARD H., MAYR S., AMEGLIO T. (SUBMITTED) FREEZE-THAW STRESS: DETECTION OF EMBOLISM SENSITIVITY BY ULTRASONIC EMISSIONS IN THE WOOD OF ANGIOSPERMS.

CHARRIER G., **CHARRA-VASKOU K.**, LEGROS B., AMEGLIO T., MAYR S. (UNDER REVISIONS IN AGRICULTURAL AND FOREST METEOROLOGY) CHANGES IN ULTRASOUND VELOCITY AND ATTENUATION INDICATE FREEZING OF XYLEM SAP.

CHARRA-VASKOU K., BADEL E., BURLETT R., COCHARD H., DELZON S. & MAYR S. (2012) The hydraulic efficiency and safety of vascular and non-vascular components in *Pinus pinaster* leaves. *Tree Physiology* 32: 1161-1170.

CHARRA-VASKOU K., CHARRIER G., WORTEMANN R., BEIKIRCHER B., COCHARD H., AMÉGLIO T. & MAYR S. (2012) Drought and frost resistance of trees: a comparison of four species at different sites and altitudes. *Annals of Forest Sciences* 69: 325-333.

CHARRA-VASKOU K. & MAYR S. (2011) The hydraulic conductivity of the xylem in conifer needles (*Picea abies* and *Pinus mugo*). *Journal of Experimental Botany* 62: 4383-4390.

MAYR S. & CHARRA-VASKOU K. (2007) Winter at the alpine timberline causes complex within-tree patterns of water potential and embolism in *Picea abies*. *Physiologia Plantarum* 131: 131-139.

	CHARRA-VASKOU K., BADEL E., CHARRIER G., MAYR S., AMEGLIO T. (2013) Conifer needles: hydraulic efficiency and safety of vascular and non vascular components. *19. Tagung der Austrian Society of Plant Biology (ATSPB).* Lienz, Austria, 7-10 Juni 2012. Oral presentation. CHARRA-VASKOU K. (2012) Conifer needles: hydraulic efficiency and safety of vascular and non vascular components. *19. Tagung der Austrian Society of Plant Biology (ATSPB).* Lienz, Austria, 7-10 Juni 2012. Oral presentation. CHARRA-VASKOU K., BADEL E., BURLETT R., COCHARD H., DELZON S. & MAYR S. (2011) The hydraulic efficiency and safety of vascular and non-vascular components in *Pinus pinaster* leaves. 9th SFBV meeting (Colloque National de la Société Française de Biologie Végétale). Clermont-Ferrand, France, 14 December 2011. Oral presentation. CHARRA-VASKOU K., BURLETT R., DELZON S. & MAYR S. (2011) Hydraulic safety of *Pinus pinaster* needles. *Xylem colloquium*. Nancy, France, 6 April 2011. Oral presentation. CHARRA-VASKOU K., BURLETT R., DELZON S. & MAYR S. (2010) Hydraulic safety of *Pine tree* needles. UMR PIAF, INRA Clermont-Ferrand, France, 8 December 2010. Oral presentation. CHARRA-VASKOU K. & MAYR S. (2009) Hydraulic conductivity of conifer needles. *Xylem colloquium*. Bordeaux, France, 24 Novembre 2009. Oral presentation. CHARRA-VASKOU K. & MAYR S. (2009) The hydraulic conductivity of needle xylem. *Botanical colloquium*. Institute of Botany, Innsbruck, Austria, 26 May 2009. Oral presentation.
Presentations as invited speaker	2009 – 2011: Tutor in the course “Planzen Anatomisch-morphologische Übungen” (Laboratory courses of plant anatomy and morphology), Institute of Botany, University of Innsbruck.
Awards and prizes if any	2011: “France Prize" of the Interdisciplinary Pole of French Studies for my PhD “*Analysis of important aspects in hydraulic efficiency and safety of conifer needles*” 2012: Agreenskills Grant

Collaboration and Networking

Amadeus Project (Innsbruck, Austria – Clermont-Ferrand, France) "Resistance to water and freezing stress: intraspecific variations in conifers and angiosperms" Amadeus 2009-2010 Project No. 19440YE

Acoufreeze Project (Innsbruck, Austria – Clermont-Ferrand, France) "Monitoring of cold stress in trees by Acoustic Emission Technique, thanks to waveform feature analysis". Acoufreeze 2012-2015

Participation in collaborative projects funded by competitive programmes	Collaboration with "MISTRAS Group., S.A., France" for Acoufreeze (started in March 2012)
Partnerships or experience with industry	-INRA UMR PIAF Clermont-Ferrand June 2009 and June 2010 during Amadeus Project - INRA UMR BIOGECO Bordeaux September-October 2010 with a Innsbruck University grant.

Scientific References

Full name	MAYR Stefan
Position	Dr. Research group leader, research Professor
Institution	Institute of Botany, University of Innsbruck (Austria)
Email address	Stefan.mayr@uibk.ac.at

Full name	AMEGLIO Thierry
Position	Dr., researcher, assistant director of PIAF (directeur adjoint du PIAF)
Institution	INRA UMR PIAF (Clermont-FERRAND)
Email address	Thierry.ameglio@clermont.inra.fr

Full name	Philippe CHOLER
Position	Dr., Researcher, HDR (chargé de recherché au CNRS)
Institution	Laboratoire d'écologie alpine (LECA) Grenoble, France
Email address	philippe.choler@ujf-grenoble.fr