



Title	<b>Planning Science Workshops for Children</b>
Category	3. Transferable Skills Training
Type	Hands-on Training & Workshop
Language	Training in Luxembourgish or German (tbd)  Workshop in Luxembourgish (additional languages like Portuguese/Italian are welcome too)
Date	Training: 10th November (Tuesday) 2020  Workshop: one date between January and July 2021 (12 Jan, 26 Jan, 9 Feb, 23 Feb, 9 March, 23 March, 6 April (tbc), 20 April, 4 May, 18 May, 1 June, 15 June, 29 June (tbc), 13 July (tbc))
Teachers	<b>Maria Ries, Coordinator of the Indiana Jos Project</b> <ul style="list-style-type: none"> <li>• inclusive early childhood education pedagogue</li> <li>• trainer for STEM-education and observation and documentation</li> <li>• long term science educator at elisabeth anne asbl</li> </ul> <b>Philippe Karier, Assistant of the Indiana Jos Project</b> <ul style="list-style-type: none"> <li>• social education pedagogue</li> <li>• trainer for STEM-education</li> <li>• long term science educator at elisabeth anne asbl</li> </ul>
Main Contact	Nicole Paschek, Project Manager DESCOM ( <a href="mailto:nicole.paschek@uni.lu">nicole.paschek@uni.lu</a> )
Number of ECTS	1 (tbc by your Doctoral School)
Workload	25 - 30 hours (6 h training, 8-12 h preparation, 8 h implementation, 1-2 h evaluation)
Course description	The Indiana Jos Tour aims to bring high quality STEM-Education into non-formal education institutions such as a Maison Relais. This is to be accomplished through a collaboration between researchers and pedagogues, who offer science workshops that make current research accessible to a lay target audience, give insight into STEM, and scientific thinking and working in a hands-on approach. <b>Please note, that also non-STEM researchers are welcome to participate as long as you can refer to STEM-related topics in your workshop OR help in the context of educational science.</b>  In the context of the Indiana Jos Tour, you will be able to participate in a basic 1-day science communication training. In this training you will first learn some basics of science communication and education in a theoretical

	<p>part that will also cover developmental processes of children. Afterwards you will develop and implement a short science workshop for children 4-12 years of age under guidance of a multi-professional team of experienced science educators. You will also learn how to introduce yourself and your research.</p> <p><u>Structure of the training:</u></p> <p>Short theoretical part:</p> <ul style="list-style-type: none"> <li>• Concepts of scientific literacy <ul style="list-style-type: none"> <li>• Content-related knowledge</li> <li>• Process-related knowledge</li> <li>• Epistemological knowledge</li> </ul> </li> <li>• Quality features of non-formal scientific and technical education <ul style="list-style-type: none"> <li>• Process Quality (cognitive support)</li> </ul> </li> <li>• Self-determination theory by Deci/Ryan</li> </ul> <p>Main practical part:</p> <ul style="list-style-type: none"> <li>• What do I need to include in my workshop? (structure workshop)</li> <li>• How do I explain my science to a lay audience?</li> <li>• How do I guarantee that my contents are well received by my audience? (developmental psychology, participation, inclusion)</li> <li>• Which aspects of my research are key aspects I would like to convey?</li> <li>• How can I refer my topic to everyday life? (generalization/relationships)</li> <li>• Intensive exchange with a lay audience about my topic</li> <li>• Testing of material and first ideas</li> <li>• Development of a first preliminary material list</li> <li>• Development of a first schedule for the workshop</li> <li>• Presentation of the schedule</li> <li>• Discussion</li> </ul>
Objective	The goal of this hands-on science communication training is to improve and practice science communication skills by engaging with a young lay audience.
Learning outcomes	<ul style="list-style-type: none"> <li>• Improvement of science communication and science education skills</li> <li>• Improvement of time and project management skills</li> <li>• Insights into the daily work of a science educator</li> <li>• Insights into the understanding of a scientific problem by a lay target audience</li> <li>• Insights into the developmental processes of children</li> </ul>
Number of participants	Max. 8

Eligibility	All doctoral candidates in Luxembourg ( <b>from all research disciplines</b> ) can register for this training. Participants will be selected based on the received applications.
Registration/ Application	<p>Registration is only possible via email. If you are interested in offering a science workshop for children, please contact <a href="mailto:descom@uni.lu">descom@uni.lu</a> until <b>29th September 2020, 10 am</b> by including:</p> <ul style="list-style-type: none"> <li>• A short explanation of your field of research and your first ideas of a possible workshop</li> <li>• If you are interested in participating as a team, please clearly mention the respective persons that will participate in the workshops in your mail</li> <li>• Your availabilities for the science workshop (see dates above)</li> <li>• The languages you speak and your preferred language for the science workshop (please take into account that the main language the children speak is Luxembourgish)</li> </ul> <p>Applications will then be internally reviewed. <b>You will receive a confirmation of registration in mid-October.</b></p>
Evaluation/ validation criteria	<ul style="list-style-type: none"> <li>• Participation in the training</li> <li>• Successful implementation of a science workshop (confirmed by teacher)</li> <li>• Participation in the end of activity evaluation</li> <li>• Reflective Report on the outreach activity</li> </ul>
Funding	<p>A budget of maximally 400€ per workshop is available to help fund any material necessary for the workshops.</p> <p>The Indiana Jos Tour is supported by the Fonds National de la Recherche, Luxembourg (FNR) and elisabeth anne asbl.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="461 1413 886 1501" style="text-align: center;">  <p>Fonds National de la Recherche Luxembourg</p> </div> <div data-bbox="1024 1388 1256 1497" style="text-align: center;">  <p>elisabeth am sozialen déngscht zu lëtzebuerg</p> </div> </div>