<table>
<thead>
<tr>
<th><strong>Title</strong></th>
<th>Planning Science Workshops for Children</th>
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<tr>
<td><strong>Category</strong></td>
<td>3. Transferable Skills Training</td>
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<tr>
<td><strong>Type</strong></td>
<td>Hands-on Training &amp; Workshop</td>
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| **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** | **Maria Ries, Coordinator of the Indiana Jos Project**  
• inclusive early childhood education pedagogue  
• trainer for STEM-education and observation and documentation  
• long term science educator at elisabeth anne asbl  

**Philippe Karier, Assistant of the Indiana Jos Project**  
• social education pedagogue  
• trainer for STEM-education  
• long term science educator at elisabeth anne asbl |
| **Main Contact** | Nicole Paschek, Project Manager DESCOM (nicole.paschek@uni.lu) |
| **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.  
**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.**  
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... |
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.

**Structure of the training:**

**Short theoretical part:**
- Concepts of scientific literacy
  - Content-related knowledge
  - Process-related knowledge
  - Epistemological knowledge
- Quality features of non-formal scientific and technical education
  - Process Quality (cognitive support)
- Self-determination theory by Deci/Ryan

**Main practical part:**
- What do I need to include in my workshop? (structure workshop)
- How do I explain my science to a lay audience?
- How do I guarantee that my contents are well received by my audience? (developmental psychology, participation, inclusion)
- Which aspects of my research are key aspects I would like to convey?
- How can I refer my topic to everyday life? (generalization/relationships)
- Intensive exchange with a lay audience about my topic
- Testing of material and first ideas
- Development of a first preliminary material list
- Development of a first schedule for the workshop
- Presentation of the schedule
- Discussion

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<th>Objective</th>
<th>The goal of this hands-on science communication training is to improve and practice science communication skills by engaging with a young lay audience.</th>
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| Learning outcomes | Improvement of science communication and science education skills  
Improvement of time and project management skills  
Insights into the daily work of a science educator  
Insights into the understanding of a scientific problem by a lay target audience  
Insights into the developmental processes of children |
<p>| Number of participants | Max. 8 |</p>
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<th><strong>Eligibility</strong></th>
<th>All doctoral candidates in Luxembourg <em>(from all research disciplines)</em> can register for this training. Participants will be selected based on the received applications.</th>
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| **Registration/Application** | Registration is only possible via email. If you are interested in offering a science workshop for children, please contact descom@uni.lu until **29th September 2020, 10 am** by including:  
• A short explanation of your field of research and your first ideas of a possible workshop  
• If you are interested in participating as a team, please clearly mention the respective persons that will participate in the workshops in your mail  
• Your availabilities for the science workshop (see dates above)  
• 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)  
Apologies will then be internally reviewed. **You will receive a confirmation of registration in mid-October.** |
| **Evaluation/validation criteria** | • Participation in the training  
• Successful implementation of a science workshop (confirmed by teacher)  
• Participation in the end of activity evaluation  
• Reflective Report on the outreach activity |
| **Funding** | A budget of maximally 400€ per workshop is available to help fund any material necessary for the workshops.  
The Indiana Jos Tour is supported by the Fonds National de la Recherche, Luxembourg (FNR) and elisabeth anne asbl. |