

Higher Education Learning Agreement for Traineeships

Daniel Topal
Academic Year 2017/2018

Student	<i>Last name(s)</i>		<i>First name(s)</i>		<i>Neptun/ETR code</i>	<i>email address</i>
	Topál		Dániel		ZHCIY8	topaldani@gmail.com
	<i>Date of birth</i>	<i>Nationality¹</i>	<i>Sex [M/F]</i>	<i>Study cycle (bachelor, master, doctorate)²</i>	<i>Field of education³ (ISCED code, degree programme)</i>	
	11/11/1995	Hungarian	M	Master	0521: Environmental sciences (422)	

Sending Institution	<i>Name</i>		<i>Country code</i>	<i>Address, website</i>
	Eötvös Loránd University		HUN	https://www.elte.hu
	<i>Faculty/ Department</i>	<i>Contact person name⁴</i>	<i>Contact person email; phone</i>	
	Department of Meteorology	Ildikó Pieczka	pieczka@nimbus.elte.hu	

Receiving Organization / Enterprise	<i>Name</i>		<i>Size</i>	<i>Country code</i>	<i>Address, website</i>
	University of California, Santa Barbara		☐ < 250 employees ☒ > 250 employees	USA	https://www.ucsb.edu
	<i>Department</i>	<i>Contact person⁵ name; position; email; phone</i>			<i>Mentor⁶ name; position; email; phone</i>
	Department of Geography	Qinghua Ding, Assistant Professor (UCSB) qinghua@ucsb.edu			Jonathan Mitchell, Assistant Professor (UCLA) jonmitch@ucla.edu

Before the mobility

Table A - Traineeship Programme at the Receiving Organisation/Enterprise

Planned period of the mobility: from [day/month/year] ...13/06/2018..... to [day/month/year]11/09/2018.....

Traineeship title: The Arctic Teleconnection phenomena in the pullback attractor framework

Number of working hours per week: 30

Detailed programme of the traineeship:

Research aim

- To identify the Arctic Oscillation (AO) and the arctic dipole anomaly (DA) and evaluate their time evolution using 35 ensembles of the CESM Community Earth System Model (CESM) (sea level pressure variable = SLP) for time-period 1920-2100 in RCP 8.5 scenario.
- Assessing the (tele)connection between the arctic atmospheric oscillations and mid-latitude winter weather in the ensemble approach, questioning the time dependency of the teleconnections during the evolution of GHG forced climate change with respect to Central-Europe.

Introduction

The Arctic has experienced amplified warming during the past decades called Arctic Amplification (AA). AA has already successfully been linked to many types of mid-latitude responses e.g. extreme weather. Here we use a new framework of teleconnection analyses introduced by Herein et al. (2017) to link AA to mid-latitude (wintertime) climate.

Materials & Methods

Following the indications of recent results, the mathematically correct form when assessing internal variability of the climate system is a *pullback attractor* framework.

Time-line

June 2018: Downloading and pre-processing the data. Discussing the research plan and setting up deliverables, placing the research in context.
 July 2018: Calculating the project related indices, forming the mathematical background of the research. Starting discussing the results.
 August 2018: Manuscript preparation of the findings.

Knowledge, skills and competences to be acquired by the end of the traineeship (expected Learning Outcomes):

A more detailed insight into the mathematics of EOF analyses and further data analyses techniques. Improved coding skills. Improved research article writing skills.

Monitoring plan:

Weekly consultations.

Evaluation plan:

Submitting an article into a peer-reviewed journal.

The level of **language competence⁷** in _English_ [indicate here the main language of work] that the trainee already has or agrees to acquire by the start of the mobility period is: A1 ☐ A2 ☐ B1 ☐ B2 ☐ C1 ☒ C2 ☐ Native speaker ☐

Table B - Sending Institution

Learning Agreement for Traineeships

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Please use only one of the following three boxes:⁸

1. The traineeship is **embedded in the curriculum** and upon satisfactory completion of the traineeship, the institution undertakes to:

Award 2 ECTS credits (or equivalent) ⁹	Give a grade based on: Traineeship certificate ☐ Final report ☒ Interview ☐
Record the traineeship in the trainee's Transcript of Records and Diploma Supplement (or equivalent).	
Record the traineeship in the trainee's Europass Mobility Document: Yes ☒ No ☐	

2. The traineeship is **voluntary** and, upon satisfactory completion of the traineeship, the institution undertakes to:

Award ECTS credits (or equivalent): Yes ☐ No ☐	If yes, please indicate the number of credits:
Give a grade: Yes ☐ No ☐	If yes, please indicate if this will be based on: Traineeship certificate ☐ Final report ☐ Interview ☐
Record the traineeship in the trainee's Transcript of Records: Yes ☐ No ☐	
Record the traineeship in the trainee's Diploma Supplement (or equivalent).	
Record the traineeship in the trainee's Europass Mobility Document: Yes ☐ No ☐	

3. The traineeship is carried out by a **recent graduate** and, upon satisfactory completion of the traineeship, the institution undertakes to:

Award ECTS credits (or equivalent): Yes ☐ No ☐	If yes, please indicate the number of credits:
Record the traineeship in the trainee's Europass Mobility Document (<i>highly recommended</i>): Yes ☐ No ☐	

Accident insurance for the trainee

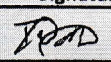
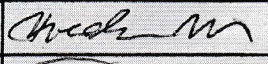
The Sending Institution will provide an accident insurance to the trainee (if not provided by the Receiving Organisation/Enterprise): Yes ☐ No ☒	The accident insurance covers: - accidents during travels made for work purposes: Yes ☐ No ☒ - accidents on the way to work and back from work: Yes ☐ No ☒
The Sending Institution will provide a liability insurance to the trainee (if not provided by the Receiving Organisation/Enterprise): Yes ☐ No ☐	

Table C - Receiving Organisation/Enterprise

The Receiving Organisation/Enterprise will provide financial support to the trainee for the traineeship: Yes ☐ No ☒	If yes, amount (EUR/month):
The Receiving Organisation/Enterprise will provide a contribution in kind to the trainee for the traineeship: Yes ☐ No ☒ If yes, please specify:	
The Receiving Organisation/Enterprise will provide an accident insurance to the trainee (if not provided by the Sending Institution): Yes ☐ No ☒	The accident insurance covers: - accidents during travels made for work purposes: Yes ☐ No ☒ - accidents on the way to work and back from work: Yes ☐ No ☒
The Receiving Organisation/Enterprise will provide a liability insurance to the trainee (if not provided by the Sending Institution): Yes ☐ No ☒	
The Receiving Organisation/Enterprise will provide appropriate support and equipment to the trainee.	
Upon completion of the traineeship, the Organisation/Enterprise undertakes to issue a Traineeship Certificate within 5 weeks after the end of the traineeship.	

Commitment

By signing this document, the trainee, the Sending Institution and the Receiving Organisation/Enterprise confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. The trainee and Receiving Organisation/Enterprise will communicate to the Sending Institution any problem or changes regarding the traineeship period. The Sending Institution and the trainee should also commit to what is set out in the Campus Mundi grant agreement. The institution undertakes to respect all the principles of the international student mobility relating to traineeships (or the principles agreed in the partnership agreement for institutions located in Partner Countries).

Commitment	Name	Position	Date	Signature
Trainee	Dániel Topál	Trainee	2018.05.18.	
Responsible person ¹⁰ at the Sending Institution	Ildikó Pleczka Ph.D.	Senior Lecturer	2018.05.18.	
Supervisor ¹¹ at the Receiving Organisation	Prof. Qinghua Ding	Associate Professor	2018.05.18.	