

## PROSECCO Mission Report

Delegates to a PROSECCO short-term mission should complete the following a mission report within 30 working days of their return. It is a requirement of the grant agreement that a mission report is submitted; otherwise, the EU may refuse to reimburse the cost of the mission.

### Delegate

(Name, Surname, Position, Name of the Employer)

**Hugo Gonçalo Oliveira, Assistant Professor**

### Host organisation

(Name, location, Name and position of the main representative)

**Universidad Complutense de Madrid, Spain, Pablo Gervás**

### Duration of the mission in months

**0.2**

### Provide a summary of your initial main objective

(As stated in the mission agreement form)

**Exchange information about research on the automatic generation of creative natural language artefacts, with a strong focus on poetry generation, towards future collaborations**

### Provide a summary of your mission goals

(As stated in the mission agreement form)

**Exchange information about research on the automatic generation of creative natural language artefacts, with a strong focus on poetry generation, towards future collaborations**

Describe your agenda of activities during the mission in detail

- 1) Presentation of PoeTryMe, a generic and versatile system for poetry generation
- 2) Discussion on the needs of using PoeTryMe to generate Spanish poetry
- 3) Exploration and adaption of Spanish resources to be used with PoeTryMe
- 4) Spanish poetry generation with PoeTryMe
- 5) Discussion about the experimentations to do and evaluation of this (new) system
- 6) Initial writing of a report, in the form of a paper, about the difficulties and the outcomes of our joint work

Describe the general outcome of your mission (detailed)

We confirmed that PoeTryMe's architecture is versatile enough to be adapted to generate poetry in a different language. So far, it had only been used for Portuguese. To deal with Spanish, we had to change for components of the system, namely: (i) the morphological lexicon used for the inflection of nouns and adjectives (FreeLing); (ii) the semantic graph, with the relation instances (MCR); (iii) the collection of poems used to learn line patterns; (iv) the syllable division tool (from the WASP system).

The performed experiments lead to interesting results, and several ways of taking conclusions on the diversity and quality of the produced poems were discussed. For instance, the pattern learning algorithm was used to provide information on the diversity of patterns used in the generated poems, which is an important indication of the diversity of poems that can be produced.

List your mission output (Please attach evidence, such as copies of papers, where possible)

(E.g. prototypes/resources developed, publication writing undertaken, co-written publication undertaken, seminar presentations, student projects supervised, data set, other resources,...)

PoeTryMe can now be used to produce Spanish poetry automatically. A paper is currently being written. Ideas for future papers on the top of the work done during this week have also been discussed.

If a publication is in preparation, by which date do you intend to submit and where? (Please ensure that you submit a copy of the finished article when it is ready.)

The paper we are writing is expected to be submitted to a conference with a deadline in the first months of 2014, possibly ICC 2014.

**Has the mission achieved its main objective?**

Yes/No

The outcome turned out to be different from the original expectation (describe)

Yes.

**Have your mission goals been achieved?**

Yes/No

Achieved a different set of goals (describe)

Yes.

**In conclusion, how would you rate the success of your mission?**

Poor/Average/Good/Very good

**Could your mission have taken place without the support of PROSECCO?**

Yes/No

**Please summarise briefly how your mission has promoted the scientific study of computational creativity**

**We have confirmed that, without a lot of effort, the same ideas and computer programs can be used to generate poetry in different languages, which highlights the flexibility of this specific platform and evidence the possibility of developing multi-language architectures for creative language purposes.**

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### Delegate

(Name, Surname, Position, Name of the Employer)

Mariano Mora-McGinity, PhD student, Geraint Wiggins (supervisor)

### Host organisation

(Name, location, Name and position of the main representative)

University of Helsinki, Porvoo. Prof. Hannu Toivonen

### Duration of the mission in months

Less than one month: 5 days

### Provide a summary of your initial main objective

(As stated in the mission agreement form)

Research in computational creativity

### Provide a summary of your mission goals

(As stated in the mission agreement form)

Acquire comprehensive view of state of the art computational creativity research

**Describe your agenda of activities during the mission in detail**

Attend conferences every day from 9 am to 6pm

**Describe the general outcome of your mission (detailed)**

Successful in acquiring an overview of the field

**List your mission output (Please attach evidence, such as copies of papers, where possible)**

(E.g. prototypes/resources developed, publication writing undertaken, co-written publication undertaken, seminar presentations, student projects supervised, data set, other resources,...)

**If a publication is in preparation, by which date do you intend to submit and where? (Please ensure that you submit a copy of the finished article when it is ready.)**

**Has the mission achieved its main objective?**

Yes

The outcome turned out to be different from the original expectation (describe)

**Have your mission goals been achieved?**

Yes

Achieved a different set of goals (describe)

**In conclusion, how would you rate the success of your mission?**

Very good

**Could your mission have taken place without the support of PROSECCO?**

No

**Please summarise briefly how your mission has promoted the scientific study of computational creativity**

I have reached a deeper understanding of the field, which I will apply in my own research on computational creativity

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### Delegate

(Name, Surname, Position, Name of the Employer)

Dan Ventura, Professor, Brigham Young University

### Host organisation

(Name, location, Name and position of the main representative)

Brigham Young University , Provo, UT 84602

### Duration of the mission in months

0.06 (two days)

### Provide a summary of your initial main objective

(As stated in the mission agreement form)

Set in motion a collaboration between UCM and Brigham Young University for the extension of the PIERRE software to the automatic generation of cocktails

### Provide a summary of your mission goals

(As stated in the mission agreement form)

Identify reusable functionalities of the existing PIERRE software

Identify necessary adaptations of the PIERRE software

Design the necessary resources for training the envisaged system.

Discuss the evaluation function required for this process.

**Describe your agenda of activities during the mission in detail**

Meetings on 24<sup>th</sup> and 25<sup>th</sup> February 2014 at the UCM premises for discussion, researching available resources and designing the system, the set of resources to be employed, and the evaluation function.

**Describe the general outcome of your mission (detailed)**

As a result of the mission, the following outcomes have been achieved:

- Compilation of a set of initial data on cocktail recipes downloaded from Internet websites.
- Development of code for the automated standardisation of this data set
- Design of a tentative evaluation function for cocktails based on a physiologically inspired model of taste.

**List your mission output (Please attach evidence, such as copies of papers, where possible)**

(E.g. prototypes/resources developed, publication writing undertaken, co-written publication undertaken, seminar presentations, student projects supervised, data set, other resources,...)

A joint publication is planned for the Late Breaking Papers call at ICCO 2014, Ljubljana.

**If a publication is in preparation, by which date do you intend to submit and where? (Please ensure that you submit a copy of the finished article when it is ready.)**

We are still waiting for this call to be announced. Though we have informal confirmation from the Program Chair that it will be forthcoming, there is as yet no official communication to that effect. The actual dates of the call are therefore still unknown.

**Has the mission achieved its main objective?**

Yes

**Have your mission goals been achieved?**

Yes



In conclusion, how would you rate the success of your mission?

Very good

Could your mission have taken place without the support of PROSECCO?

No

Please summarise briefly how your mission has promoted the scientific study of computational creativity

The scientific study of computational creativity had already addressed the automatic generation of cookery recipes in the form of the PIERRE system developed by Professor Dan Ventura and his collaborators at Brigham Young University. However, they had applied an evaluation function based on training a neural network against quantitative ratings provided by human evaluators. The present research effort relies on a similar mechanism for the actual generation of new artefacts but goes beyond existing efforts in that it attempts to model an evaluation function for cocktail recipes based on a physiologically inspired model of taste.

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### Delegate

(Name, Surname, Position, Name of the Employer)

**F. Amilcar Cardoso, PROSECCO partner, University of Coimbra (UC), Portugal**

### Host organisation

(Name, location, Name and position of the main representative)

**University of Helsinki / 2<sup>nd</sup> Autumn School in Computational Creativity (Porvoo, Helsinki, Finland)**

### Duration of the mission in months

**(0.25 months) 1 week**

### Provide a summary of your initial main objective

(As stated in the mission agreement form)

**To deliver a course on Computational Approaches to Conceptual Blending at the 2<sup>nd</sup> International Autumn School in Computational Creativity (Porvoo, Helsinki, Finland).**

### Provide a summary of your mission goals

(As stated in the mission agreement form)

- 1. To deliver two lectures on Computational Approaches to Conceptual Blending to the students / attendees of the Autumn school, with two main objectives:**
  - a. To provide a common ground about current research and main challenges of concept creation, with a focus on concept creation techniques.**
  - b. To evangelize participants on the relevance of concept creation research within computational creativity**
- 2. To discuss the running of PROSECCO with fellow partners, to calibrate the activities planned or on-going, to ensure clarity on objectives and deliverables**
- 3. To identify potential students for the field and for specific CC research projects**

**4. To introduce several PhD students from UC to the field of Computational Creativity**

**Describe your agenda of activities during the mission in detail**

The 2<sup>nd</sup> International Autumn School in Computational Creativity (Porvoo, Helsinki, Finland) comprised a week of intense lecturing and audience interaction, for myself and for other speakers. Several additional meetings were held throughout the week to discuss the running of PROSECCO, to plan for the upcoming contact forum, and to explore ideas for the planned code-camp.

**Describe the general outcome of your mission (detailed)**

The Autumn school was a notable success, due in large part to the efforts of the organizer Hannu Toivonen (who organized a similar, if smaller, event in 2011) and to dedication of the invited speakers, most of whom are also PROSECCO members.

Meetings regarding the conduct of PROSECCO also proved to be informative and useful.

**List your mission output (Please attach evidence, such as copies of papers, where possible)**

(E.g. prototypes/resources developed, publication writing undertaken, co-written publication undertaken, seminar presentations, student projects supervised, data set, other resources,...)

As the Autumn school lectures were videotaped to a professional standard, the event yielded a small trove of high-quality instructional videos (over 20 hours of computational content).

My lectures in particular comprise about 1h30m of video and slides available online.

The slides were also made available in SlideShare:

<http://www.slideshare.net/amilcardoso/computational-approaches-to-conceptual-blending>

**If a publication is in preparation, by which date do you intend to submit and where? (Please ensure that you submit a copy of the finished article when it is ready.)**

No publication is being prepared.

**Has the mission achieved its main objective?**

Yes/No

The outcome turned out to be different from the original expectation (describe)

All goals were met by a very successful event.

Have your mission goals been achieved?

Yes/No

Achieved a different set of goals (describe)

Yes. See above

In conclusion, how would you rate the success of your mission?

Poor/Average/Good/Very good

Could your mission have taken place without the support of PROSECCO?

Yes/No

Please summarise briefly how your mission has promoted the study of computational creativity

The Autumn school introduced a new generation of students and researchers to the goals and technologies of Computational Creativity.

Signed:



Expenses claimed:

Flight:	351.29€
Accommodation:	544.01€
Subsistence:	437.78€
Transports:	87.40€
Total:	1420.48€