



September 1-6, 2014 | Kalamaki, Crete, GR

# 4th ESWC Summer School

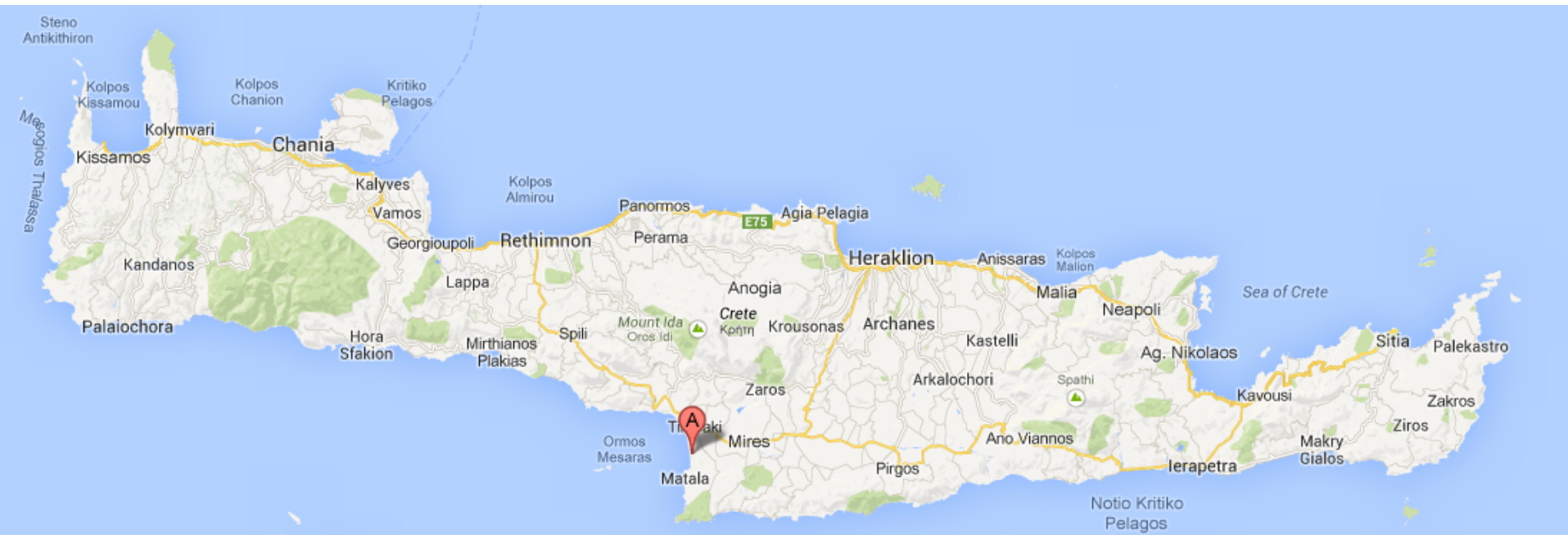
**John Domingue**

Knowledge Media Institute, The Open University, UK &  
STI International

[summerschool2014.eswc-conferences.org](http://summerschool2014.eswc-conferences.org)

# WHERE ARE WE?

# Crete



## Sea

2 1


- 1 Breakfast Notia Ammos
- 2 Lunch Monday/Tuesday  
- Aristidis
- 3 Lunch Wednesday –  
Friday Diogenis

3



X





20 July 2014  
Kalamaki, Messara, Crete  
1st *Caretta caretta* hatchlings for 2014

# WHY ARE WE HERE?

- KnowledgeWeb Network of Excellence
  - Summer school in Cercedilla (est. 2003)
  - ESWC Conference (ESWS) (est. 2004)
- REVERSE Reasoning Summer School (est. 2005)
- Asian Semantic Web School (est. 2007)
- Semantic Computing Summer School in Berkeley (est. 2009)
- 1<sup>st</sup> ESWC Summer School (2011)

# Developing the next SW generation

## AI Ten to Watch



Marta Sabou  
MODUL University  
Vienna



Mathieu d'Aquin  
The Open University



Tom Heath  
Open Data Institute





# Becoming (very) Famous Semantic Web Scientists

- Semantic Web research area
  - Technical knowledge and skills
- Non-technical knowledge and skills

# NON-TECHNICAL KNOWLEDGE AND SKILLS

- Communication skills
  - Presentation skills
  - Communication in meetings
  - Communication with your supervisor/boss/staff/peers
- Collaboration skills
- Leadership skills
- Social skills
- Sunny dispositionness



# HOW ARE WE GOING TO ACHIEVE THIS?

# Organisational Support



*Aneta Tumilowicz*  
Administration



*Fabian Flöck*  
Community Manager

# Preservation Track Leaders



Grigoris Antoniou



José María García

# Learning by doing, interacting and critiquing

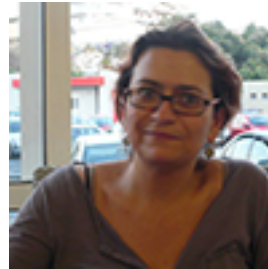
- Practical, constructivist orientation
  - **Tutorial sessions** are followed by **hands-on practical sessions**
  - Students produce their own work in a **mini-project**
- Intensive interaction with peers and experts
  - Both informally and through formal events, such as mini-project and **poster session**
- Formal tutorial and practical sessions augmented by **invited talks** of a broader nature by recognised authorities in the field

# The Tutors\*



*Barry Norton*

Linked Data (for NLP), SW  
Languages,



*Irimi Fundulaki*

Querying & SPARQL



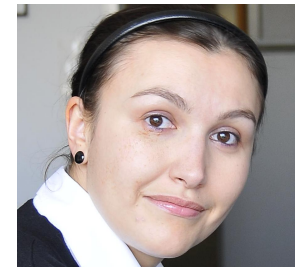
*Isabelle Augenstein*

Linked Data & GATE



*Maribel Acosta*

Providing, publishing and  
consuming Linked Data,  
Mechanical Turk



*Elena Simperl*

Building and  
Using Ontologies  
Posters



# Preservation Track Tutors



Sotirios Batsakis  
Preserving Linked Data



René van Horik  
Data management



Dumitru Roman  
Data publication & hosting



José María García  
DBPedia preservation  
use case

## Euclid Project Learning Resources



EUCLID is a European research project, facilitating professional training for data practitioners, who aim to use Linked Data in their daily work. EUCLID delivers a curriculum implemented as a combination of living learning materials and activities (eBook series, webinars, face-to-face training), validated by the user community through continuous feedback.

<http://www.euclid-project.eu/resources/learning-materials/>

**iBook Download:** [Using Linked Data Effectively](#)



## Euclid Project Modules

### **EUCLID Module 1: Introduction and Application Scenarios**

This module introduces the main principles of Linked Data, the underlying technologies and background standards. It provides basic knowledge for how data can be published over the Web, how it can be queried, and what are the possible use cases and benefits. As an example, we use the development of a music portal (based on the MusicBrainz dataset), which facilitates access to a wide range of information and multimedia resources relating to music. The module also includes some multiple choice questions in the form of a quiz, screencasts of popular tools and embedded videos.

eBook

[HTML](#) [iBook](#) [ePub](#) [Kindle](#)

Course (includes screencasts and exercises)

[HTML](#) [iTunesU](#) [Slides](#) [Webinar I](#) [Webinar II](#)

## 1.1 Introduction

The last  
which ex  
technolog  
linking t  
exploit  
standard  
allowing  
querying

### Movie 1



Dr Barry  
music po



This chapter introduces Linked Data and related semantic

in web  
a music  
s access  
relating

ling of:  
the RDF

scenario

# Keynote Speakers



*Avi Bernstein*  
University of Zurich



*John Domingue*  
The Open University &  
STI International



*Marko Grobelnik*  
Josef Stefan Institute



*Dominic Oldman*  
British Museum, London



*Guus Schreiber*  
Free University of Amsterdam

- Co-ordinated by Fabian
- Collaborative work in groups of 4 or 5
- Key component of implementation of constructivist/hands-on ethos
- Key objectives
  - Explore a research issue in some depth
  - Experience collaborative work under time pressure
  - Have fun
  - Maybe win a prize
    - Student presentations (10 min per group) on Saturday am
    - Presentations to Fabian by 17:30pm Friday!

## Mini-Project: What we ask from you

- Be creative!
  - Focus on idea generation and functional design, rather than implementation
  - Get approval from a tutor!
- Collaborate with your team members
- Best projects tend to focus on interesting and novel application of semantic technologies

# Fitbit Zip



- Cregan, A., Mochol, M., Vrandecic, D. and Bechhofer, S. (2005) *Pushing the limits of OWL, Rules and Protege - A simple example*. In Bernardo Cuenca Grau, Ian Horrocks, Bijan Parsia, Peter Patel-Schneider, OWL: Experiences and Directions, Co-located with ISWC 2005, Galway, Ireland, November, 2005
- Mochol, M., Cregan, A., Vrandecic, D. and Bechhofer, S. (2008) *Exploring OWL and rules: a simple teaching case* International Journal of Teaching and Case Studies (IJTCS), 1, (4), Seiten 299 - 318, November, 2008
- Tanasescu, V. and Streibel, O. (2007) *Extreme Tagging: Emergent Semantics through the Tagging of Tags*. Workshop: International Workshop on Emergent Semantics and Ontology Evolution (ESOE 2007), in conjunction with the ISWC 2007 Conference, Busan, Korea.
- Thalhammer, A., Ermilov, T., Nyberg, K., Santoso, A. and Domingue, J. (2011) *MovieGoer - Semantic Social Recommendations and Personalised Location-Based Offers*, Poster at International Semantic Web Conference



- Coordinated by Elena
- Every attendee presents a poster!
  - Typically on PhD topic
  - Put posters up between 5 and 8 today and tomorrow
- Each poster will be assigned a tutor
- Enables you to get high quality feedback on your ideas
- You get a glimpse of what each of you are doing
  - Help in formation of mini-project groups
- Prize for the best poster
- Posters too can be published!
- Aurlona Gerber, Alta Van der Merwe and Andries Barnard. A Functional Semantic Architecture. European Semantic Web Conference, 2008



# Summer School Timetable (Monday)

- 08:15 - 09:00 Registration
- 09:00 - 09:15 Opening: *John Domingue*
- 09:15 - 10:15 **Keynote: John Domingue, OU & STI2**
- 10:15 – 10:45 Coffee break
- 10:45 - 12:30 Tutorial: Fundamentals of Linked Data  
*Barry Norton*
- 12:30 - 14:00 Lunch break
- 14:00 - 15:00 Tutorial: Querying Linked Data: SPARQL 101  
*Irini Fundulaki*
- 15:00 – 15:30 Coffee break
- 15:30 - 17:00 ***Hands-on: Semantic Web Languages and Standards***  
*Barry Norton & Irini Fundulaki*
- 18:30 Poster session and opening reception  
*Elena Simperl*

# Summer School Timetable (Tuesday)

- 09:00 - 09:15 Administrative Issues
- 09:15 - 10:15 **Keynote: Marko Grobelnik, Jozef Stefan Institute**
- 10:15 – 10:45 Coffee break
- 10:45 - 12:30 Tutorial: Building and Using Ontologies  
*Elena Simperl*
- 12:30 - 14:00 Lunch break
- 14:00 – 14:30 Student project kick-off (*Fabian Flöck*)
- 14:30 – 15:30 Tutorial: Providing and consuming Linked Data  
*Maribel Acosta*
- 15:30 – 16:00 Coffee break
- 16:00 - 17:00 ***Hands-on: Publishing and consuming Linked Open Data***  
*Maribel Acosta*
- 18:30 Poster session continued and dinner  
*Elena Simperl*

# Summer School Timetable (Wednesday)



- 09:00 - 09:15 Administrative Issues
- 09:15 - 10:15 **Keynote: Dominic Oldman, British Museum**
- 10:15 – 10:45 Coffee break
- 10:45 - 11:30 Tutorial: Linked Data for NLP  
*Barry Norton*
- 11:30 - 12:30 ***Hands-on: Using Linked Data and GATE***  
*Barry Norton & Isabelle Augenstein*
- 12:30 - 14:00 Lunch break
- 14:00 – 15:00 Tutorial: Social Semantic Web and crowdsourcing  
*Elena Simperl*
- 15:00 - 16:00 ***Hands-on: Using Mechanical Turk to solve LD problems***  
*Maribel Acosta*
- 16:00 **Excursion**
- 20:00 Dinner, possibly as part of the excursion

# Summer School Timetable (Wednesday) P



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- 09:00 - 09:15 Administrative Issues
- 09:15 - 10:15 **Keynote: Dominic Oldman, British Museum**
- 10:15 – 10:45 Coffee break
- 10:45 - 11:30 Tutorial: Data publication and hosting solutions  
*Dumitru Roman*
- 11:30 - 12:30 ***Hands-on: Data management***  
*René van Horik*
- 12:30 - 14:00 Lunch break
- 14:00 – 15:00 Tutorial: Challenges on preserving Linked Data  
*Sotirios Batsakis*
- 15:00 - 16:00 ***Hands-on: Preserving Linked Data: The DBpedia use case***  
*José María García*
- 16:00 **Excursion**
- 20:00 Dinner, possibly as part of the excursion

# Summer School Timetable (Thursday)

- 09:00 - 09:15 Administrative Issues
- 09:15 - 10:15 **Keynote: Avi Bernstein, University of Zurich**
- 10:15 – 10:45 Coffee break
- 10:45 - 11:30 Q & A Session  
*All Tutors*
- 11:30 - 12:30 ***Student project work*** (tutors available)
- 12:30 - 14:00 Lunch break
- 14:00 – 18:00 ***Student project work*** (tutors available)
- 20:00 Dinner

# Summer School Timetable (Friday)

- 09:00 - 09:15 Administrative Issues
- 09:15 - 10:15 **Keynote: Guus Schreiber, University of Amsterdam**
- 10:15 - 12:30 ***Student project work*** (tutors available upon request)
- 12:30 - 14:00 Lunch break
- 14:00 – 18:00 ***Student project work*** (tutors available upon request)
- 20:00 Dinner
- 22:00 Party

# Summer School Timetable (Saturday)

- 09:00 - 12:00 Student project presentations
- 12:00 - 12:30 Break and deliberation of judges
- 12:30 - 13:00 Award ceremony and closing



# FINALLY

**HAVE FUN!**

- We know people learn more if they enjoy themselves
- Social Programme
  - Excursion on Wednesday
  - Party and disco on Friday
  - Other events are encouraged!

# Final Final Tips

- 'Soft' Skills are Important
- Process rather than results
- If you are stuck or confused please ask
- Have fun!

- Wireless
  - SSID eswc-school
  - password “eswc2014”
- #eswc2014
- <https://www.facebook.com/groups/eswcsummerschool2014/>



**Thanks!**

