

PERSONAL INFORMATION

Danilo Dessi'

SHORT DESCRIPTION

I am an enthusiast young computer scientist. I am a Ph.D. candidate at the University of Cagliari who would like to continue his professional growth doing research. I like to leam how things work and push up myselfto address more and more challenging tasks. Thanks to the passion my supervisors conveyed to me, I would like to continue building my carrier in computer science research areas such as Machine Leaming, Natural Language Processing, and Sentiment Analysis which I have been working on during the last three years.

PROFESSIONAL EXPERIENCE

3033

Aprii 2019-July2019 (4 months) Academic Tutor Computer Architecture

University of Cagliari, Science : fàculty, Degree course in Computer Science, Caglimi (Italy)

Design of Combinational Circuits - Microarchitecture - I N M Language - Educational Processor

MIC1 - Processor 8088

March 2018 - July 2018

(5 months)

Academic Tutor Computer Architecture

University of Cagliari, Science : faculty, Degree course in Computer Science, Cagliari (Italy)

Design of Combinational Circuits - Microarchitecture - INM Language - Educational Processor

MIC1 - Processor 8088

March 2017 - July 2017

(5 months)

Academic Tutor Computer Architecture

University of Cagliari, Science : faculty, Degree course in Computer Science, Cagliari (Italy)

Design of Combinational Circlùts - Microarchitecture - IJVM Language - Educational Processor

MIC 1 - Processor 8088

June 2016 - September 2016 (5 months) Research Intern at Philips Research

Philips Resem·ch, Data Science Department, High Tech Cmnpus 36, Eindhoven (Tue Netherlands)

The topic of mywork was to explore the IBM Watson tools to support Healthcare activities.

March 2016 - July 2016 (5 months) Academic Tutor Computer Architecture

University of Cagliari, Science : faclùty, Degree course in Computer Science, Cagliari (Italy)

Design of Combinational Circlùts - Microarchitecture - INM Language - Educational Processor

MIC1 - Processor 8088

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EDUCATION AND TRAINING

October 2016 – In progress (at the end 3 years) Thesis submission Seplember 20'19 Defence scheduled November 2019



Ph.D. candidate in Computer Science

University of Cagliari, Mathematics and Computer Science Department, Cagliari (Italy)

Research fields: Knowledge Graphs, Machine Leaming, Deep Leaming, Natw-al Language Processing, Sentiment Analysis.

Supervisor: Prof Diego Reforgiato Recupero

Thesis: Knowledge Extraction from Textual Resonces through Semantic Web Tools and Advanced Machine Learning Algorithms for Applications in Various Domains.

International research and colfaho.ration:



Visiting Student from 05/09/17 to 02/12/2017 of the Professor Delmis Shasha at the Center for Data Science, New York University, New York City, USA

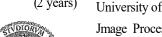


Visiting Student from 10/09/2018 to 10/12/2018 of the Professor Emico Molta at the Knowledge Media Institute (K.Mi)- Open University, Milton Keynes, UK

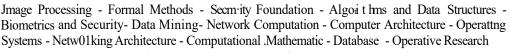


Visiting Student from 14/01/2019 to 05/04/2019 of the Professor Davide Buscalcli at the L'Iboratorie d'Inf01matique Pmis Nord-University Pmis 13, Paris, FR

September 2014 - September 2016 (2 years)



Computer Science M.Sc. Degree University of Cagliari, Science factùty, Cagliari (Italy)



Final score: 110/11 ODate: 22 September 2016 Age: 24

Thesis: A Complex Network approach to evaluate the "Natura 2000" network. Supervisor: Prof Gianni Fenu

September 2014 - January 2015 (5 months)

CCNA Exploration Cert!fication

Cisco Networking Academy (www.netacad.com)

CCNA 1 - Network Ftmdamentals

CCNA 2 - Routing Protocols and Concepts

September 201 i- July 2014 (3 years)

Computer Science B.Sc. Degree

University of Cagliari, Science fuctury, Cagliari (Italy)



Computer Science Foundation - Operating Systems - Relational Database - Computer Networks - Imperative Programming - Object Oriented Programming - Functional Programm11ing - Algorithms - Programming languages - Data Structures - Automata - Hmnan Computer Interaction - Software Enginee1ing- Computer Architectme - Statistics - Mathematical Analysis - Traineeship (350 hours)

Firi.al score: 110/110 (cwn laude) Date: 25 Jnly2014 Age: 22

Thesis: Convergence of processés and services on mobile devices. Supe.rvisor: Prof Gianni Fenu

September 2006 - July 2011 (5 years)

Computer Science Diploma

ITIS Othoca, Oristano (Italy)



Pxogramming Foundations - Information Transmission - n alogical Electronics - Digital Electronics - Statistics - Database - Mathematics - English Language

.Finahcore: 100JOO nate: 04July2011 Age: 19

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FUTURE PERSPECTIVES

Plans fmiher studies: Looking for a post-doc position in Europe. Availability to travel: yes Availability to move abroad: yes

PERSONAL SKILLS

Mother tongue Other languages ltalian

UNDERSTANING		SPEAKING		WRITTED PRODUCTION
Listening	Reading	Spoken interaction	Spoken production	
B2	В2	В2	В2	В2
Certificate of B2 level from Linguistic Centre of the University of Cagliari				

English

Communication skills

I acquired good communication skills during my experience as tutor and during presentations of academic projects.

Social ability

Good social skills obtained during my school and university career, during the training period which included a team work, during myteaching experience as tutor. Moreover, I bave had some international experiences where I worked with people coming from ali over the world.

Management skills

I acquired good organization skills in planning and execution of projects during various international collaborations in my research experience.

Computer skills

- **Programming skills:** C (high), C++ (high), Java (e:xcellent), OCaml (basis), R (basis), Python (excellent), Proficiency with VCSs. (SVN & GIT), Knowledge of NetBeans, Eclipse, AndroidStudio, and PyCharm IDEs.
- ••• Web Programming: JHP (high), JSP (good), Javascript (basis)
- Markup Languages: HTML, CSS, XML, LaTeX
- Database: SQL, MySQLDBMS
- •• Operating System: Windows (7, 8, 10) (good), Linux (high), IOS (high)
- •!• Browser: Firefox, Internet Explorer, Google Chrome
- •• Machine Learning: Scikit-leam, Keras
- Natural Language Processing: Gensim, NLTK, Spacy, StanfordCoreNLP
- •!• Complex Networks: Networkx, iGraph
- •!• Data Science tools: Pandas, python Notebooks
- Semantic , veb tools: Framester, Fred, IBM Watson, Semafor, Pikes
- Others: suite Office and similar, MatLab, pgAdnrin, Oracle VM Virtual Box

AWARDS

- Winner of a mobility grant 2019 sponsored by Labex EFL to stay 3 months_at the University of Paris 13 (France)
- •!• Winner of a PlaceDoc grant 2018 sponsored by the University of Cagliari to stay 3 months at the Knowledge Media Institute Open University (UK)
- Winner of a GlobusDoc grant 2017 sponsored by the University of Cagliari to stay 3 months at the New York University (USA)
- •!• Best poster award at ESWC-14 conference with Leveraging Cognitive Computing for Multi-Class Classification of E-Learning Videos (see publications for more details)
- Regional Merit Scholarship Academic Year 2012-2013 Autonomous Region of Sardinia
- Regional Merit Scholarship -Academic Year 2011-2012 Autonomous Region of Sardinia

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Curriculum vitae

Danilo Dessì

PUBUCATIONS / RESEARCH ACTIVITY

Chapters/Books

Dessi, D., Dragoni, M., Fenu, G., Mruras, M., & Reforgiato Recupero, D. (2019). Deep Learning Adaptation with Word Embeddings for Sentiment Analysis on Online Course Reviews. Accepted in: *Deep learning based approaches for sentiment analysis book*.

Dessì, D., Reforgiato Recupero, D., Fenu, G., & Consoli, S. (2018). A Recommender System of Medica] Reports Leveraging Cognitive Computing and Frame Semantics. In *Jylachine Learning Paradigms* (pp. 7-30).

Conferences I Workshops

Reforgiato Recupero, D., Dessì, D., & Concas E. (2019). A Flexible and Scalable Architecture for Human-Robot Interaction. Accepted at: *European Corifèrence on Ambient Intelligence 2019*.

Buscaldi, D., Dessi, D., Motta, E., Osborne, F., & Reforgiato Recupero, D. (2019). Mining Scholarly Data for Fine-Grained Knowledge Graph Construction. In *CEUR Workshop Proceedings* (Voi. 2377, pp. 21-30).

Dessì, D., Dragoni, M., Fenu, G., Marras, M., & Reforgiato Recupero, D. (2018). Analisi Emozionale di recensioni di corsi online basata su Deep Leru·ning e Word Embeddings. In *Coriferenza GARR 2018*.

Dessì, D., Fenu, G., Marras, M., & Reforgiato Recupero, D. (2018). COCO: Semantic-Enriched Collection of Online Courses at Scale with Experimental Use Cases. In World Conference on Iriformation Systems and Technologies (pp. 1386-1396).

Dessì, D., Reforgiato Recupero, D., Fenu, G., & Consoli, S. (2017). Exploiting Cognitive Computing and Frame Semantic Features for Biomedical Document Clusteling. *SeWeBMeDA@ESWC* 14th: (pp. 20-34).

Fenu, G., Pau, P. L., & Dessi, D. (2016). Modeling and Extending Ecologica! Networks Using Land Similruity. *InInternational Workshop on Complex Networks and their Applications* (pp. 709-718). Splinger.

Journals

Dessi D., Reforgiato Recupero, D. (2019). LexTex: A Novel Framework to Automatically Assign Scores to Wordnet Word Senses in Domain Specific Categories. Submitted to: *Knowledge and Information Systems* journal. Status: second review round.

Dessi, D., Fenu, G., Marras, M., & Reforgiato Recupero, D. (2019). Bridging learning analytics and Cognitive Computing for Big Data classification in micro-learning video collections. *Computers in HumanBehavior*, 92, (pp. 468-477).

Dessi, D., Cirrone, J., Reforgiato Recupero, D., & Shasha, D. (2018). SuperNoder: a tool to discover over-represented modular structures in networks. *BMC Bioiriformatics*, *19*, 318.

Fenu, G., Pau, P. L., & Dessì, D. (2017). "Functional models and extending strategies for ecologica! networks." *Applied Network Science* 2.1: I O

Posters

Bardaro G., Dessì D., Motta E., Osborne F., & Reforgiato Recupero, D. (2019). Parsing Natmal Language Sentences into Robot Actions. Accepted at: ISWC 18th.

Buscaldi, D., Dessì, D., Motta, E., Osborne, F., & Reforgiato Recupero, D. (2019). Mining Scholarly Publications for Scientific Knowledge Graph Construction. Presented at: *ESWC* 16th conference.

Dessl, D., Dragoni, M., Feml, G., MruTas, M., & Reforgiato Recupero, D. (2019). Evaluating neural word embeddings created from online course reviews for sentiment analysis. In *Proceedings of the 34th ACM/SIGAPP Symposium on Applied Computing* (pp. 2124-2127). ACM.

Dessì, D., Fenu, G., Mruras, M. & Reforgiato Recupero, D. (2017). Leveraging Cognitive Computing for Multi-Class Classification of E-Learning Videos. *ESWC* 14th (pp. 21-25). Springer.

Technical Reports

Dessi D., Fenu, G., Reforgiato Recupero, D., & Consoli S. (2017). Exploration of IBM Watson for Healthcare Applications, Philips Research Europe Technical Note, PR-TN 2017/00115, Eindhoven, The Netherlands.

Reviewing Activity

I have been reviewer for:

Semantics 2019 conference. Clic-it 2019 conference.

ACM SAC 2019 Knowledge and Language Processing track. DL4KGworkshop at the ESWC 16th 2019 conference. EMSASW2018 workshop at the ESCW 15th 2018 conference.

Participation in Conferences

SAC 2019, (8-12) Aprii 2019, Limassol, Cyprus, speaker

European Data Forum, (29 - 30) June 2016, Eindhoven (The Netherlands), participant

Curriculum vitae

Danilo Dessì

Memberships

HRI@Lab Unica (http://hri.unica.it/)
SKM³ (http://skm.kmi.open.ac.uk/#people)

ADDITIONAL INFORMATION

Driving license

Italian driving licence, category B

Professional references

Diego Reforgiato Recupero, Associate Professor at University of Cagliari, diego.reforgiato@unica.it Sergio Consoli, Scientific Project Officer at the JRC (Ispra), sergio.consoli@ec.europa.eu
Dennis Shasha, Full Professor at the New York University, shasha@cims.nyu.edu

Enrico Motta, Full Professor at the K.Mi-The Open University, enrico.motta@open.ac.uk

I declare that the contained information in this Curriculum Vitae are true.

Last update: 09/09/2019