Ivan Heibi

Personal Data

Place and Date of Birth:	Haifa, Israel | 27 October 1989
Address:	20 Via Angelo Venturoli, 40138, Bologna, Italy
Phone:	+39 3888904887
email:	ivanhb.ita@gmail.com, ivan.heibi@studio.unibo.it, ivan.heibi2@unibo.it
Github:	github.com/ivanhb
ORCID:	orcid.org/0000-0001-5366-5194
Website:	ivanhb.github.io

Education

Nov 2018 - Current — Ph.D student at **University of Bologna**, Dept. of Classical Philology and Italian Studies

The application of Semantic Publishing technologies in the Science of Science research domain
Understanding, quantifying and predicting the scientific researches and the resulting outcomes is the main object of the Science of Science study (SOS). Using the Semantic Web technologies in SOS can turn out to be very beneficial. A particular sub-branch of the Humanities, i.e. Digital Humanities, has recently started to work actively on adopting Semantic Publishing technologies. Social Science and Humanities domains are a highly interesting fields to work with for a larger integration of semantic publishing technologies, since few studies have made it in the past.

July 2017 — Master of Computer Science, **University of Bologna**, Bologna
Grade: 110/110 *summa cum laude*
Thesis: "A Visual Framework for Graph and Text Analytics in Email Investigation" | Advisor: Prof. Danilo Montesi
GPA: 28.28/30 | Detailed List of Exams

July 2012 — Bachelor of Science Computer Science, **University of Bologna**, Bologna
Grade: 97/110
Thesis: "Implementing a help desk ticketing system and evaluating its performance" | Advisor: Prof. Vittorio Ghini
GPA: 25.10/30

July 2007 — **Mar Elias High School**, I'billi, Israel

Work Experience

April 2019 - Current	A work-for-hire contract *CATARSI project* The project aims at analysing existing tools for automatic text analysis, so as to develop a prototypical Web-based application for mashing up these tools to create execution workflows by means of an intuitive Web interface. Project link
Nov 2017 - Nov 2018	Research Fellow at **University of Bologna**, Dept. of Classical Philology and Italian Studies *OpenCitations project* The main work of OpenCitations is the creation and current expansion of the Open Citations Corpus (OCC), an open repository of scholarly citation data made available under a Creative Commons public domain dedication, which provides in RDF accurate citation information (bibliographic references) harvested from the scholarly literature. OpenCitations has formally started in 2010 as a one-year project funded by JISC (with a subsequent extension), with professor David Shotton from the University of Oxford as its director. opencitations.net

Languages

Italian:	Native speaker
Arabic:	Native speaker
English:	Good reading, writing and speaking skills
Hebrew:	Good reading, writing and speaking skills

Publications

February 2019	Heibi, I., Peroni, S., and Shotton, D. (2019). Crowdsourcing open citations with CROCI-An analysis of the current status of open citations, and a proposal. arXiv preprint arXiv:1902.02534. https://arxiv.org/abs/1902.02534
April 2018	Heibi I., Peroni S., Shotton D. (2018) OSCAR: A Customisable Tool for Free-Text Search over SPARQL Endpoints. In: González-Beltrán A., Osborne F., Peroni S., Vahdati S. (eds) Semantics, Analytics, Visualization. SAVE-SD 2017, SAVE-SD 2018. Lecture Notes in Computer Science, vol 10959. Springer, Cham https://doi.org/10.1007/978-3-030-01379-0$_9$

Skills

Fields of Study:	Data science, Semantic web, Data analytics, Data mining, Machine learning, Natural Language Processing, Web developer, Parallel computing, Forensic analysis, Software design, Data visualization
Programming languages:	PHP, mySQL, RDF/SPARQL, HTML/CSS, Java, C, JavaScript, Python

Certificates

June 2016 Machine Learning by Stanford University on Coursera. Certificate

Projects

June 2015 **Time quantification of text collections**
An attempt to study to what extent time is referenced in text with respect to the collection it belongs to.
Key Fields: Natural language processing, Data mining, Data visualization, Python

March 2015 **Design and realization of a distributed system**
The complete implementation of a multiplayer game and handling the most common distributed consistency problems
Key Fields: Distributed Systems, Java, Software engineering

March 2016 **Vector space models applications**
Analysis and solving of common problems/applications through some software packages
Key Fields: Natural language processing, Python

July 2014 **Human-Computer Interaction project**
Designing a system aimed for professional photographers
Key Fields: Software design

November 2015 **Constraint programming (Artificial intelligence project)**
An AIMMS Model for the Bike Sharing System
Key Fields: Artificial intelligence, Constraint programming, AIMMS

May 2016 **Weightless Technology**
An alternative wireless technology for IoT (Internet Of Things) networks
Key Fields: Wireless networks, Wireless sensor networks

February 2014 **Middleware project**
Testing the features of fault tolerance and migration using a software for the management of cloud computing.
Key Fields: Cloud computing, OpenNebula, JBoss

February 2016 **The usage of OpenGL and Blender for computer graphics projects**
Key Fields: Computer graphics, OpenGL, Blender

September 2014 **Virus diffusion through mobile phones**
The simulation of a complex system behavior
Key Fields: Complex systems, Systems simulation, Data visualization, NetLogo, Omnet

March 2016 **iOS app project**
Developing a card game app in swift programming language
Key Fields: Mobile applications, Swift, iOS

Master of Computer Science

Grades

Exam	Grade	Credit Hrs
Advanced Algorithms	22	6
Elements of Databases	30	6
Person/Computer Interaction	30	6
Artificial Intelligence	30	6
Computational Mathematics	30L	6
Systems Simulation	23	6
Complex Systems	30	6
Management of Financial and Insurance Companies	30	6
Middleware Systems	28	6
Natural Language Processing	28	6
Computer Graphics	28	6
Mobile Applications Laboratory	27	6
Distributed Systems	30	6
Wireless Systems and Networks	30L	6
Mobile Systems	30L	6
English Language		6
Preupodent activity for the final test		6
Final Thesis		24
	Total	120
	Gpa	**28.28**