



# Ivan Heibi

Ph.D student,

University of Bologna,

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## Short Biography

I am a graduated student in computer science and currently a Phd student working under The Department of Classical Philology and Italian Studies (FICLIT) [1], and a member of the Digital Humanities Advanced Research Centre (/DH.arc) [2]. I mostly deal with Semantic web technologies, especially in scholarly publishing contexts.

## Skills

**Fields of study:**

Data science, Semantic web, Data analytics, Data visualization, Data mining, Machine learning, Natural Language Processing, Web developer, Parallel computing, Forensic analysis, Software design.

**Programming languages:**

RDF/SPARQL, HTML/CSS, Java, C, JavaScript, Python, PHP, mysql

## Languages

**Italian** : Native speaker

**Arabic** : Native speaker

**Hebrew** : Good reading, writing and speaking skills

**Italian** : Good reading, writing and speaking skills

## Work Experience

### **CATARSI project, - *A work-for-hire contract***

APRIL 2019 - OCTOBER 2019

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. [3]

### **The OpenCitations Enhancement Project, - *Research Fellow***

NOVEMBER 2017 - NOVEMBER 2018

OpenCitations [4], is a scholarly infrastructure organization dedicated to open scholarship and the publication of open bibliographic and citation data by the use of Semantic Web (Linked Data) technologies, and engaged in advocacy for semantic publishing and open citations. The financial support for this project was provided by the Alfred P. Sloan Foundation.

## Education

### **University of Bologna, Dept. of Classical Philology and Italian Studies - *Ph.D. student***

Started in November 2018 and still ongoing

Thesis title: "The application of Semantic Publishing technologies in the Science of Science research domain". [5]

The main objectives are: (a) to try understand the common formalisms and constructional patterns adopted for citations inside Humanities documents (e.g. a classification according to the document sections); (b) analyse the reasons, i.e. the citation function, to cite other works and what are the most important ones ?

### **University of Bologna - *Master of Computer Science***

Graduated in July 2017, Grade: 110/110 summa cum laude

Thesis title: "A Visual Framework for Graph and Text Analytics in Email Investigation" [6]

### **University of Bologna - *Bachelor of Computer Science***

Graduated in July 2012, Grade: 97/110

Thesis title: "A Visual Framework for Graph and Text Analytics in Email Investigation"

### **Mar Elias High School, I'billi, Israel - *High school diploma***

Graduated in July 2007

## Publications

Heibi, I., Peroni, S., & Shotton, D. (2019). COCI, the OpenCitations Index of Crossref open DOI-to-DOI citations. Scientometrics, <https://doi.org/10.1007/s11192-019-03217-6>

Heibi, I., Peroni, S., & 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. (to be published soon)  
<https://arxiv.org/abs/1902.02534>

Heibi, I., Peroni, S., & Shotton, D. Enabling text search on SPARQL endpoints through OSCAR. Data Science, 1-23. <https://doi.org/10.3233/DS-190016>

Heibi, I., Peroni, S., & Shotton, D. (2017). OSCAR: A customisable tool for free-text search over SPARQL endpoints. In Semantics, Analytics, Visualization (pp. 121-137). Springer, Cham. [https://doi.org/10.1007/978-3-030-01379-0\\_9](https://doi.org/10.1007/978-3-030-01379-0_9)

## Certificates

### Machine Learning by Stanford University on Coursera. Certificate

June 2016

## References

1. Dipartimento di Filologia Classica e Italianistica, <http://www.ficlit.unibo.it/it>
2. The Digital Humanities Advanced Research Centre (/DH.arc),  
<https://centri.unibo.it/dharc/en>
3. CATARSI, Automatic Text Understanding, <https://catarsiproject.wordpress.com/>
4. OpenCitations, <http://opencitations.net/>
5. The application of Semantic Publishing technologies in the Science of Science research domain for the Humanities field, [presentation.pdf](#)
6. A Visual Framework for Graph and Text Analytics in Email Investigation,  
<https://amslaurea.unibo.it/13818/1/Thesis.pdf>