

Curriculum Vitae

PERSONAL INFORMATION



Claudio Delli Bovi

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Date of birth 11/06/1990 | **Nationality** Italian

WORK EXPERIENCE

Mar 2018–Now

Applied Scientist at Amazon.com, Inc.

Alexa Machine Learning

- Natural Language Understanding, Language Expansion

EDUCATION AND TRAINING

Nov 2014–Feb 2018

Ph.D. in Computer Science

University of Rome 'La Sapienza', Rome (Italy)

- Natural Language Processing, Computational Linguistics
- Thesis: "Harnessing Sense-Level Information for Semantically Augmented Knowledge Extraction"

Oct 2012–Oct 2014

Master of Science cum Laude in Engineering in Artificial Intelligence and Robotics

University of Rome 'La Sapienza', Rome (Italy)

- Artificial Intelligence, Machine Learning, Natural Language Processing, Robotics

Sep 2009–Oct 2012

Laurea (Bachelor of Science) cum Laude in Computer Science Engineering

University of Siena, Siena (Italy)

- Robotics, Automation, Control Theory, Computer Architecture, Software Engineering

Sep 2004–Sep 2009

Maturità Scientifica (High School Graduation), 100/100

Liceo Scientifico Tecnologico, ITT "Sarrocchi", Poggibonsi (SI) (Italy)

- Computer Science and Systems, Engineering, Physics, Mathematics

RESEARCH EXPERIENCE

Nov 2014–Oct 2017

Sapienza Ph.D. Research Fellowship

Linguistic Computing Laboratory (LCL), Computer Science Department, University of Rome 'La Sapienza', Rome (Italy)

- 3-year research fellowship for the PhD programme in Computer Science 2014-2015

Aug 2016–Jul 2017

"Avvio alla Ricerca" Research Grant

Linguistic Computing Laboratory (LCL), Computer Science Department, University of Rome 'La Sapienza', Rome (Italy)

- 1-year small-project starting grant from the University of Rome 'La Sapienza'

Jan 2014–Jun 2014 **Research Scholarship on “Esperimenti in Traduzione Automatica Semantica” [Experiments in Semantic Machine Translation]**
Linguistic Computing Laboratory (LCL), Computer Science Department, University of Rome 'La Sapienza', Rome (Italy)

- 6-month scholarship for the MultiJEDI project, ERC Starting Grant no. 259234 (Prof. Roberto Navigli)

Jun 2017–Jan 2018 **Co-organization of the the SemEval-2018 Task 9 Competition**
Task 9: “Hypernym Discovery”, International Workshop on Semantic Evaluation

2-3 March 2016 **Co-organization of the the Luxembourg BabelNet Workshop**
European Commission, Parliament and Publication Office, Schuman Building, Hemicycle. 2929 Luxembourg.

TEACHING EXPERIENCE

Mar 2015–Feb 2017 **Teaching Assistant in MSc course “Natural Language Processing”**
University of Rome 'La Sapienza', Rome (Italy)

- Main activities: tutoring, organizing course homework and projects, giving lectures and seminars

Mar 2015–Feb 2017 **Teaching Assistant in BSc course “Metodologie di Programmazione” [Object Oriented Programming]**
University of Rome 'La Sapienza', Rome (Italy)

- Main activities: tutoring, managing online forums, web seminars, and practical sessions

PUBLICATIONS

2017 S. Papandrea, A. Raganato and **C. Delli Bovi**. *SupWSD: A Flexible Toolkit for Supervised Word Sense Disambiguation*. Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (**EMNLP**), pages 103–108, Copenhagen, Denmark, 7-11 September 2017.

A. Raganato, **C. Delli Bovi** and R. Navigli. *Neural Sequence Learning Models for Word Sense Disambiguation*. Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (**EMNLP**), pages 1167–1178, Copenhagen, Denmark, 7-11 September 2017.

C. Delli Bovi and A. Raganato. *Sew-Embed at SemEval-2017 Task 2: Language-Independent Concept Representations from a Semantically Enriched Wikipedia*. Proceedings of the 11th International Workshop on Semantic Evaluation (**SemEval-2017**) pages 252–257, Vancouver, Canada, 30 July-4 August 2017.

C. Delli Bovi, J. Camacho Collados, A. Raganato and R. Navigli. *EuroSense: Automatic Harvesting of Multilingual Sense Annotations from Parallel Text*. Proceedings of the 55th annual meeting of the Association for Computational Linguistics (**ACL**), pages 594–600, Vancouver, Canada, 30 July-4 August 2017.

C. Delli Bovi and R. Navigli. *Multilingual semantic dictionaries for natural language processing: The case of BabelNet*. Encyclopedia with Semantic Computing and Robotic Intelligence (**ESCRI**), vol. 1, no. 1, pages 1630015, 2017.

- 2016 L. Espinosa Anke, J. Camacho Collados, **C. Delli Bovi** and H. Saggion. *Supervised Distributional Hypernym Discovery via Domain Adaptation*. Proceedings of 2016 Conference on Empirical Methods in Natural Language Processing (**EMNLP**), pages 424–435, Austin, TX, USA, 1-5 November 2016.
- A. Raganato, **C. Delli Bovi** and R. Navigli. *Automatic Construction and Evaluation of a Large Semantically Enriched Wikipedia*. Proceedings of 25th International Joint Conference on Artificial Intelligence (**IJCAI**), pages 2894–2900, New York City, NY, USA, 9-15 July 2016.
- J. Camacho Collados, **C. Delli Bovi**, A. Raganato and R. Navigli. *A Large-Scale Multilingual Disambiguation of Glosses*. Proceedings of the 10th International Conference on Language Resources and Evaluation (**LREC**), pages 1701–1708, Portorož, Slovenia, 23-28 May 2016.
- 2015 **C. Delli Bovi**, L. Telesca and R. Navigli. *Large-Scale Information Extraction from Textual Definitions through Deep Syntactic and Semantic Analysis*. Transactions of the Association for Computational Linguistics (**TACL**), vol. 3, pages 529–543, 2015.
- C. Delli Bovi**, L. Espinosa Anke and R. Navigli. *Knowledge Base Unification via Sense Embeddings and Disambiguation*. Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (**EMNLP**), pages 726–736, Lisbon, Portugal, 17–21 September 2015.
- L. Espinosa Anke, H. Saggion, **C. Delli Bovi**. *Definition Extraction Using Sense-Based Embeddings*. International Workshop on Embeddings and Semantics (**IWES**) @ SEPLN2015, pages 10–15, Alicante, Spain, 15 September 2015.

PRESENTATIONS AND TALKS

(Open) Information Extraction: where are we going?

- Invited talk at Allen Institute for Artificial Intelligence (AI2). Seattle, WA, 28 July 2016
- Invited talk at TALN-DTIC, Universitat Pompeu Fabra (Barcelona). Barcelona, 16 October, 2015.

The BabelNet API: Downloading and installing BabelNet

- Tech session at the Luxembourg BabelNet Workshop. Luxembourg City, 2–3 March, 2016.

The Babelfy API: Disambiguating text with Babelfy

- Tech session at the Luxembourg BabelNet Workshop. Luxembourg City, 2–3 March, 2016.

Combined Distributional and Logical Semantics

- Reading group at LCL, University of Rome 'La Sapienza' (Rome). Rome, 14 April, 2014.

ADDITIONAL INFORMATION

Schools and Seminars

- **Amazon Graduate Research Symposium**
Amazon Doppler, Seattle, WA, USA
18–20 October, 2017
- **International Summer School on Deep Learning (DeepLearn 2017)**
University of Deusto, Bilbao (Spain)
17–21 July, 2017
- **Google NLP PhD Summit**
Google Zürich, Zürich (Switzerland)
23–26 September, 2015
- **5th Lisbon Machine Learning School**
Instituto Superior Técnico, Lisbon (Portugal)
16–23 July, 2015

Honours and awards

"**Percorso d'Eccellenza**" [Excellence Program] for the MSc in Artificial Intelligence and Robotics, A.Y. 2013-2014
Facoltà di Ingegneria dell'Informazione, Informatica e Statistica, University of Rome 'La Sapienza', Rome (Italy):

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
Spanish	C1	C1	B2	B2	B1
German	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Technical skills

- Programming Languages:
Java, Python, Perl, C++, Matlab, HTML/CSS, Haskell, JavaScript, Prolog
- Operating Systems:
GNU/Linux, Mac OS X, Windows