



Curriculum vitae

Personal information

Sangati Federico

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Likedin

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Gender Male | Date of birth 14/12/1982 | Nationality(-ies) Italian

OCCUPATIONAL FIELDS

Natural Language Processing, Chatbot Techonologies, Data Science

WORK EXPERIENCE

Dates	September 2015 - Now
Occupation or position held	Freelancer - NLP Software and Bot Developer
Main activities and responsibilities	NLP developer at Cerence.com (former Nuance)
Dates	March 2018 - Now
Occupation or position held	Naples University "L'Orientale"
Main activities and responsibilities	Research Assistant Developing collaborative games for language learning and crowdsourcing of linguistic resourcing, with a focus on multiword expressions. Developing NLP systems via Telegram Bots: EmojiWorldBot , DialectBot , and PlagioBot . Participating in European Cost Action initiatives (Parseme , enetCollect).
Dates	September 2015 - March 2018
Occupation or position held	Independent NLP Researcher
Main activities and responsibilities	Developing NLP systems via Telegram Bots: EmojiWorldBot , and EmojitalianoBot . Participating in European Cost Action initiatives (eLexicography , Republic of Letters).
Dates	September 2015 - Now
Occupation or position held	Founder and Developer of PickMeUp
Main activities and responsibilities	Developing and promoting PickMeUp : a carpooling platform for Trento region.
Dates	January 2016 - December 2017
Occupation or position held	Web Developer
Company	Mondriatech Inc.
Main activities and responsibilities	Developing dynamic and interactive webpages for data visualization.
Dates	February 2014 - December 2015
Occupation or position held	Post-Doc
Main activities and responsibilities	Computational Linguistics Researcher in Digital Humanities: building NLP Tools for supporting research in the Humanities and developing educational technologies.
Project supervisor	Sara Tonelli
Name and address of employer	Digital Humanities Group, Fondazione Bruno Kessler (FBK), Trento (IT)
Dates	December 2012 - January 2014

Occupation or position held	NLP Developer Freelancer
Main activities and responsibilities	Building an Italian grammar correction system.
Name and address of employer	Lionbridge, Tampere, Finland
Dates	March 2013 - September 2013
Occupation or position held	NLP Researcher and Developer
Main activities and responsibilities	Building language models for fast text input systems for mobile phones.
Name and address of employer	Flexpansion Ltd., Edinburgh, Scotland
Dates	November 2011 - November 2012
Occupation or position held	Post-Doc
Main activities and responsibilities	Syntactic and Semantic Models, Incremental Parsing, Language Modeling, Students Supervision.
Project supervisors	Frank Keller and Mirella Lapata
Name and address of employer	Institute for Language, Cognition and Computation, School of Informatics, University of Edinburgh
Dates	January 2008 - January 2012
Position	PhD
Main activities and responsibilities	Research on Parsing Models and Syntactic Representations, Students Supervision
Project supervisors	Rens Bod and Willem Zuidema
Organization providing education	Institute for Logic Language and Computation, University of Amsterdam, The Netherlands
Dates	November 2005 - October 2007
Occupation or position held	Interviewer
Main activities and responsibilities	Interviewing Italian people on media usage.
Name and address of employer	INTERVIEW NSS B.V. Amsterdam, The Netherlands
Dates	September 2006 - October 2006
Occupation or position held	Teaching Assistant
Main activities and responsibilities	TA in the course <i>Communication and Cognition in the MSc in Cognitive Science</i> .
Name and address of employer	University of Amsterdam, The Netherlands
Dates	October 2004 - January 2005
Occupation or position held	ICT Developer
Main activities and responsibilities	Web Interface for the management of medical reports. Digitization of the Echocardiography Lab using DICOM standards for video/images management
Name and address of employer	Cardiology Unit, Pordenone Hospital, Italy

EDUCATION AND TRAINING

Dates	January 2008 - January 2012
Position	PhD Student
Principal subjects covered	Natural Language Processing, Syntax Parsing
Organization providing education	Institute for Logic Language and Computation, University of Amsterdam, The Netherlands
Dates	September 2005 - November 2007
Title of qualification awarded	Master Degree in Logic Language and Computation
Grade	8/10
Principal subjects covered	Logic, Language Semantics and Syntax, Natural Language Processing
Organization providing education	Institute for Logic Language and Computation, University of Amsterdam, The Netherlands
Dates	September 2002 - December 2004
Title of qualification awarded	Bachelor Degree in Computer Science
Grade	107/110
Principal subjects covered	Math, Programming, Algorithms, Data Bases, Computer Architectures
Organization providing education	University of Padova, Italy
Notes	Including Erasmus Semester in Leiden Institute of Advanced Computer Science, University of Leiden, The Netherlands (January 2004 - July 2004)
Dates	September 1996 - July 2001
Title of qualification awarded	High School Degree

Grade	92/100
Type of High School	Scientific Technological Lyceum
Organization providing education	F. Severi High School, Padova, Italy
Notes	Including a year abroad, Holbrook High School, Massachusetts, USA (August 1999 - July 2000)

PROJECTS AND SOFTWARE

Telegram and Messenger Bots	SearchAroundBot , EleusisBot , KritikosBot , PickMeUpBot , DialectBot , EmojitalianoBot , EmojiWorld-Bot .
Digital Humanities	Quantitative Narrative Analysis of large volume of text; construction of networks based on co-occurrences or syntactic relations between entities.
Multiword Expressions	Techniques for automatic discovery of Multiword Expressions from treebanks, plain text, and parallel corpora using tree/text kernels approaches.
School-Tagging	School-Tagging is a novel online platform for promoting playful language exercises in classrooms, allowing teachers to engage with students in an interactive way. Answers provided by students and validated by the teacher are anonymized and collected as they constitute a very valuable training material for improving NLP tools. See online demo .
ITSG Parser	Incremental Tree Substitution Grammar Parser (Sangati and Keller, 2013).
Double-DOP Parser	Double-DOP parsing model based on recurring fragments (Sangati and Zuidema, 2011).
TDS Viewer and Converter	Convert and view the WSJ Treebank in Tesnière Dependency format (Sangati and Mazza, 2009).
FragmentSeeker	Tool to extract recurring fragments from large Constituency Treebanks (Sangati et al., 2010).
Tree Viewers	Graphical tool for visualizing Constituency (ConstTreeViewer), Dependencies (DepTreeViewer), and CCG (CCGTreeViewer) Structures.
Parser Evaluators	Graphical tools for evaluating constituency (EvalC) and dependency (EvalD) Parsers.

LANGUAGES

Mother tongue(s)	Italian				
Other language(s)	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English ¹	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
French	B2 Independent user	B2 Independent user	B1 Independent user	B1 Independent user	A2 Basic user
Spanish	B1 Independent user	B1 Independent user	A2 Basic user	A2 Basic user	A1 Basic user
Dutch	A1 Basic user	A2 Basic user	A1 Basic user	A1 Basic user	A1 Basic user

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

COMPUTER SKILLS AND COMPETENCES

Operating Systems	Mac OS, Linux, Windows.
Programming Languages	Java: 12 years programming experience including GUI development, Web applications, Audio/Image manipulation, Multithreading. Python: 4 years programming experience. C, C++.
NLP tools	Developing Java NLP Libraries for Parsing and NLP processing (see code in github). Developing Java DH Libraries for performing Network Analysis on large text (see code in github). Third Party Parsers (e.g., MALT , MST , Berkley Parser , Bitpar). Third Party PoS taggers and lemmatizers (e.g., TreeTagger). Other NLP Toolkits (e.g., Stanford NLP Library , SRI Language Modeling Toolkit , OpenNLP). Language resources (e.g., treebanks, WordNet , FrameNet).

¹TOEFL exam score 260/300 held on 14/04/2005

	NLP Machine learning Toolkits (e.g., MLlib , Weka).
	Speech Technologies (e.g., Praat , MBrola , Festival).
Web Technologies	Google Application Engine (GAE), Google Web Toolkit (GWT), HTML5, CSS, Javascript.
Media Applications	Processing, Adobe Photoshop, Audacity, Final Cut Pro, Cycling '74 Max/Msp/Jitter.
Other	LaTeX (Open) Office package Fast typing (60wpm)

VOLUNTEER ACTIVITIES

European Open Summer School	Funder and organizer of the European Open Summer School . This initiative, started in 2011, has the goal to bring together people from different cultures and backgrounds to share knowledge and skills with one another. Activities include theoretical lectures, practical workshops, discussions, and sport activities.
Mentor CoderDojo, Trento	CoderDojo is a global volunteer-led community of free programming clubs for young people. These young people, between 7 and 17, learn how to code, develop websites, apps, programs, games and explore technology.
TED Open Translation Project	Currently active in translating and reviewing the subtitles of TEDTalks and TEDxTalks as part of the Open Translation Project .
Pablo Neruda Group, Padova	I have worked for many years as a volunteer in this non-profit organization which organizes weekly activities (workshops, games, natural excursions) and summer camps for kids of age 6-18, and general activities to sensitize people on social problems.

OTHER SKILLS AND COMPETENCES

Photography	10+ years experience with manual reflex cameras, slide projectors, and analog/digital photography in general. Experience with black/white dark-room photo processing. Good knowledge of digital photography and image software manipulation.
Video and Audio	Home production of short digital movies with computer technology. Recording and manipulation of sound tracks.
Interactive Installations	I have built few real-time interactive systems. The general purpose behind these projects was to let the system change dynamically in response to the behavior of the people coming in contact with the installation. This involves movement detection and real time video and sound manipulation.
Driving license	I am a holder of an European driving license. Category B vehicle.

REFEREES

References available upon request.

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