




## Curriculum vitae

### Personal information

### Sangati Federico

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 Likedlin

 Skype

 Google Scholar

 GitHub GitLab

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

## OCCUPATIONAL FIELDS

**Natural Language Processing, Chatbot Technologies, Data Science**

### WORK EXPERIENCE

Occupation or position held	<b>Research Assistant</b>
Name and address of employer	Okinawa Institute of Science and Technology, Japan
Dates	September 2015 - Present
Occupation or position held	<b>Freelancer - NLP Software and Bot Developer</b>
Main activities and responsibilities	NLP developer at Cerence.com (former Nuance)
Dates	April 2018 - April 2020
Occupation or position held	<b>Research Assistant</b>
Name and address of employer	Naples University "L'Orientale"
Main activities and responsibilities	Developing collaborative games for language learning and crowdsourcing of linguistic resources, with a focus on multiword expressions.
Dates	January 2016 - December 2017
Occupation or position held	<b>Web Developer</b>
Company	Mondriatech Inc.
Main activities and responsibilities	Developing dynamic and interactive webpages for data visualization.
Dates	February 2014 - December 2015
Occupation or position held	<b>Post-Doc</b>
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	<b>NLP Developer Freelancer</b>
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	<b>NLP Researcher and Developer</b>
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	<b>Post-Doc</b>
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	<b>PhD</b>
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	<b>Interviewer</b>
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	<b>Teaching Assistant</b>
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	<b>ICT Developer</b>
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	May 2020 - November 2020
Position	<b>Deep Learning Specialization</b>
Principal subjects covered	Neural Networks and Deep Learning, Improving Deep Neural Networks (Hyperparameter tuning, Regularization and Optimization), Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models.
Organization providing education	Coursera (Prof. Andrew Ng)
Dates	January 2008 - January 2012
Position	<b>PhD Student</b>
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	<b>Master Degree</b> 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	<b>Bachelor Degree</b> 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	<b>High School Degree</b>
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

ChatBots	I have developed a number of ChatBots related to research topics, education and social purposed.
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.
Educational Technologies	I have developed online platforms 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.

## LANGUAGES

Mother tongue(s)	Italian																																																																							
Other language(s)	<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2"></th> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> </tr> </thead> <tbody> <tr> <td>English<sup>1</sup></td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> </tr> <tr> <td>French</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> <td>A2</td> <td>Basic user</td> </tr> <tr> <td>Spanish</td> <td>B1</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> <td>A2</td> <td>Basic user</td> <td>A2</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> </tr> <tr> <td>Dutch</td> <td>A1</td> <td>Basic user</td> <td>A2</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> <td>A1</td> <td>Basic user</td> </tr> </tbody> </table>										Understanding		Speaking				Writing				Listening		Reading		Spoken interaction		Spoken production		English <sup>1</sup>	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
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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	Python (preferred), Java, C, C++
NLP tools	spaCy, Stanford CoreNLP, Natural Language Toolkit
Data Analysis	pandas, NumPy
Machine Learning	Scikit-Learn, PyTorch, TensorFlow, Keras
Web Technologies	Google Application Engine (GAE), Google Web Toolkit (GWT), HTML5, CSS, Javascript.
Interactive Applications	Arduino, Processing.
Other	LaTeX

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

(Open) Office package  
Fast typing (60wpm)

## VOLUNTEER ACTIVITIES

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- 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

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- 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.

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