

CURRICULUM VITAE

PART I - PERSONAL INFORMATION

Name and Surname Rocco Tripodi

PART II - EDUCATION

Date	2012-2016
Title	PhD in Computer Science
University	Ca' Foscari University of Venice
Dissertation title	Evolutionary Game Theoretic Models for Natural Language Processing
Supervisor	Prof. Marcello Pelillo

Date	2006-2009
Title	Master's degree in Informatics for Humanities
University	Ca' Foscari University of Venice
Dissertation title	Natural Language Processing: an Ontological Approach
Supervisor	Prof. Rodolfo Delmonte

PART III – WORKING EXPERIENCE

III(A) - Current positions

Date	06/2017 – today
Position	Postdoc researcher
Main activities	Postdoc-Researcher under the ODYCCEUS project (H2020 - FET Open).
Employer	Ca' Foscari University of Venice

Date	09/2017 – today
Position	Adjunct Professor
Main activities	Teaching Digital Humanities III - Digital Text Analysis
Employer	Collegio Internazionale Ca' Foscari University of Venice

III(B) - Previous positions

Date	10/2016 – 05/2017
Position	Postdoc researcher
Main activities	Postdoc-Researcher within the project Strumenti Linguistici Computazionali per Migliorare la Comunicazione Azienda-Utente, focused on Speech Act Classification
Employer	Dipartimento di Studi Linguistici e Culturali Comparati, Ca' Foscari University of Venice

Date	10/2015 – 09/2016
Position	Postdoc researcher

Main activities	Researcher under the project Hume-Nash Machines: Context-Aware Models of Learning and Recognition (Samsung GRO Project).
Employer	European Centre for Living Technology - Venice

Date	05/2015 – 07/2015
Position	Visiting Researcher
Main activities	Researcher in the field of Evolutionary Models for Data Clustering
Employer	Staffordshire University - UK

Date	01/2010 - 01/2011
Position	Research Assistant
Main activities	Researcher under the project: Natural Language Processing and Web Ontologies
Employer	Dipartimento di Studi Linguistici e Culturali Comparati, Ca' Foscari University of Venice

Date	06/2011 - 06/2012
Position	Research and Development
Main activities	R&D on mobile applications and related technologies and services
Employer	Attiva Spa - Venice

Date	09/2010 - 09/2011
Position	Adjunct Professor on Computer Science Linguistics
Employer	Dipartimento di Studi Linguistici e Culturali Comparati, Ca' Foscari University of Venice

III(C) - Teaching activities

Date	09/2018 – today
Position	Adjunct Professor
Main activities	Teaching Digital Humanities III - Digital Text Analysis
Employer	Collegio Internazionale Ca' Foscari University of Venice

Date	09/2017 – 08/2018
Position	Adjunct Professor
Main activities	Teaching Digital Humanities III - Digital Text Analysis
Employer	Collegio Internazionale Ca' Foscari University of Venice

Date	09/2010 - 08/2011
Position	Adjunct Professor
Main activities	I have taught Computer Science Linguistics Mod.1
Employer	Ca' Foscari University of Venice

Date	02/2015 - 07/2015
Position	Teaching assistant
Main activities	Teaching assistant for the Computing Skills for Economics course
Employer	Ca' Foscari University of Venice

Date	01/2014 - 09/2014
Position	Online Tutor
Main activities	Online tutor for the Computing Skills for Economics course

Employer	Ca' Foscari University of Venice
Date	02/2014 - 03/2014
Position	Teaching assistant
Main activities	Lab assistant for the Web Design course
Employer	Ca' Foscari University of Venice

PART IV – SOCIETY MEMBERSHIPS, AWARDS AND HONORS

2019	Member of the Association for Computational Linguistics
2019	Area Chair (Lexical and Sentence-level Semantics) of CLiC-it 2019 (Italian Conference on Computational Linguistics) main conference of the Associazione italiana per la linguistica computazionale (AILC).
2018	Local and program organizer of the Hate Speech and Big Data: ODYCCEUS conference in Digital History and Digital Humanities.
2017	Marie Skłodowska-Curie Actions Seal of Excellence for a proposal titled Opinion Dynamics in an Hyperconnected Era (ODHE)
2014	Local organizer of the NLPCS 2014 (Natural Language Processing and Cognitive Linguistics) conference in Venice
2011	Local Organizer of the SLaTE (Speech and Language Technology in Education) 2011 workshop
2011	Winner of the Start Cup Veneto prize for the best idea on Technological Transfer
2011 today	Reviewer of top conferences and journals in the area of Natural Language Processing, Pattern Recognition and Artificial Intelligence: ACL, EMNLP, NAACL, NIPS, AAAI, Computational Intelligence.

PART V – TALKS AT CONFERENCE AND WORKSHOPS

V(A) - Tutorials

Date	08.08.2016
Title	Game Theory and Natural Language: Origin, Evolution and Processing
Event	Association for Computational Linguistics, ACL 2016
Venue	Berlin, Germany

V(B) – Invited talks

Date	12.09.2019
Title	Is it the end of Word Sense Disambiguation, as we know it?
Event	Seminars of the Linguistic Computing Laboratory at Università La Sapienza (Rome)
Venue	Rome, Italy

Date	07.09.2018
Title	The anatomy of books
Event	Workshop – Network Science in the Humanities
Venue	Leipzig, Germany

Date	16.04.2018
Title	Game Theory and Natural Language Processing
Event	Seminars of the Linguistic Computing Laboratory at Università La Sapienza (Rome)
Venue	Rome, Italy

V(C) – Talks and Presentations at Workshops and Conferences

Date	02.08.2019
Title	Tracing Antisemitic Language Through Diachronic Embedding Projections: France 1789-1914
Event	1st International Workshop on Computational Approaches to Historical Language Change @ACL2019
Venue	Florence, IT

Date	06.05.2019
Title	Genealogies of Antisemitic Discourse: the Protocols of Zion between Text Similarities and Textual Influences
Event	Case Studies Workshop of the Odyceus Project
Venue	Amsterdam, NL

Date	25.01.2019
Title	History and Digital Text Analysis: tracing the antisemitic discourse in the 19th century
Event	Data Mining & Opinion Dynamics
Venue	Paris, FR

Date	19.10.2018
Title	Tracing Antisemitic Streams Over Time: France 1789-1914
Event	Hate Speech and Big Data: ODYCCEUS conference in Digital History and Digital Humanities
Venue	Venice, IT

Date	19.10.2018
Title	Genealogies of Antisemitic Discourse: the Protocols of Zion between Text Similarities and Textual Influences
Event	Hate Speech and Big Data: ODYCCEUS conference in Digital History and Digital Humanities
Venue	Venice, IT

Date	12.12.2017
Title	Analysis of Italian Word Embeddings
Event	Fourth Italian Conference on Computational Linguistics (CLiC-it 2017)
Venue	Rome, IT

Date	12.12.2017
Title	A Game-Theoretic Approach to Word Sense Disambiguation
Event	Fourth Italian Conference on Computational Linguistics (CLiC-it 2017)
Venue	Rome, IT

Date	12.09.2017
Title	An Evolutionary Game-Theoretic Approach to Word Sense Disambiguation
Event	Games with partial representations: An Odyceus workshop
Venue	Gothenburg, S

Date	06.12.2016
------	------------

Title	Context aware nonnegative matrix factorization clustering
Event	International Conference on Pattern Recognition (ICPR 2016)
Venue	Cancun, MX

Date	08.06.2016
Title	Hume-Nash Machines: Context-Aware Models of Learning and Recognition
Event	1st Swiss Text Analytics Conference (SwissText 2016)
Venue	Zurich, CH

Date	13.05.2016
Title	Evolutionary Aspects of Networks and Opinions
Event	Workshop on Data Driven Approach to Networks and Language
Venue	Lyon, FR

Date	24.02.2016
Title	Document Clustering Games
Event	International Conference on Pattern Recognition Applications and Methods, ICPRAM 2016
Venue	Rome, IT

PART VI – RESEARCH ACTIVITIES

Keyword	Brief Description
Natural Language Processing (NLP)	The research is collocated in the field of Artificial Intelligence. It is concerned with the processing and analysis of large amounts of natural language data. In particular, I am interested in the design, learning and evolution of linguistic communication systems.
Lexical Semantics and Word Sense Disambiguation	A recurring theme in my academic research is the conventional and relational nature of meaning. I am investigating these aspects developing original techniques able to explore in different ways how polysemous words can be automatically disambiguated. This strand of research led to the development of a system that has the most accurate performances compared to other state-of-the-art systems on standard benchmarks. The model is continuously update and it is available to the research community in different implementations.
Algorithmic Game Theory	This strand of research is aimed at discovering new learning algorithms inspired by principles of biological evolution, which are able to exploit relational and contextual information, viewing pattern analysis problems in a dynamical system perspective. In particular, it is inspired by evolutionary game theoretic principles.

PART VII – SUMMARY OF SCIENTIFIC ACHIEVEMENTS

Product Type	Number	Database	Start	End
Journal papers [international]	3	Scopus	2011	2019
Conference papers [international]	3	Scopus	2011	2019
Workshop papers [international]	3	Scopus	2011	2019
Book chapters [scientific]	5	Scopus	2011	2019

Number of products	14 (Scopus)	19 (Google Scholar)
Total citations	25 (Scopus)	91 (Google Scholar)
Hirsch (H) index	3 (Scopus)	5 (Google Scholar)
Normalized H index ¹	0.3 (Scopus)	0.6 (Google Scholar)
Average Citations per Product	1.8 (Scopus)	4.8 (Google Scholar)
Total Impact Factor	2.2 (CiteScore2018), Scopus	
Average Impact factor	6.5 (CiteScore2018), Scopus	

PART VIII – SELECTED PUBLICATIONS

VIII(A) - journal papers

Paper number	1
Filename	1-COLI 2017.pdf
Author	Tripodi, Rocco and Pelillo, Marcello
Title	A game-theoretic approach to word sense disambiguation
Journal	Computational Linguistics
Publisher	MIT press
H-index	82
SJR – 2017	0.42
Quartile	Q1
Citations	12 (Scopus) - 35 (Google Scholar)
Year	2017
Contributions	Tripodi conceived the idea and the theoretical model, developed the model's computational code, experiments, tables and figures. All authors discussed the results and contributed to the final manuscript.

Paper number	2
Filename	2-PRL 2018.pdf
Author	Sebastiano Vascon, Marco Frasca, Rocco Tripodi, Giorgio Valentini, Marcello Pelillo
Title	Protein Function Prediction as a Graph-Transduction Game
Journal	Pattern Recognition Letters
Publisher	Elsevier
H-index	129
SJR – 2017	0.66
Quartile	Q1
Citations	2 (Scopus) – 6 (Google Scholar)
Year	2018
Contributions	Pelillo and Valentini conceived the idea. Pelillo and Tripodi provided the theoretical model and its code. Valentini and Frasca provided the data. Vascon and Tripodi ran the experiments. All authors discussed the results and contributed to the final manuscript.

Paper number	3
--------------	---

¹ H index versus/divided by the academic seniority (time span from graduation)

Filename	3-SPECTRO 2018.pdf
Author	Tripodi, Rocco and Pelillo, Marcello
Title	Non-invasive study of natural dyes on historical textiles from the collection of Michelangelo Guggenheim
Journal	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy
Publisher	Elsevier Ltd.
H-index	104
SJR – 2018	0.57
Quartile	Q2
Citations	1 (Scopus) – 2 (Google Scholar)
Year	2018
Contributions	Tripodi conducted all the experiments on clustering and created the related tables and figures. All authors discussed the results and contributed to the final manuscript.

VIII(B) - conference papers

Paper number	4
Filename	4-EMNLP 19
Author	Tripodi, Rocco; Navigli, Roberto
Title	Game Theory meets Embeddings an Unified Framework for Word Sense Disambiguation
Conference	International Conference Empirical Method for Natural Language Processing 2019 (EMNLP 2016)
Organizer	Association for Computational Linguistics (ACL)
Year	To appear
Contributions	Tripodi conceived the idea and provided the theoretical model and its code. Navigli and Tripodi discussed the results and contributed to the final manuscript.

Paper number	5
Filename	5-LChange 2019
Author	Tripodi, Rocco; Warglien, Massimo, Simon, Levis Sullam, Deborah Paci
Title	Tracing Antisemitic Language Through Diachronic Embedding Projections: France 1789-1914
Conference	Proceedings of the 1st International Workshop on Computational Approaches to Historical Language Change
Organizer	Association for Computational Linguistics (ACL)
Year	2019
Contributions	Tripodi Warglien and Levis Sullam conceived the idea. Tripodi provided the theoretical model and its code. Warglien Levis Sullam, Tripodi and Paci discussed the results and contributed to the final manuscript.

Paper number	6
Filename	6-ICPR 2016
Author	Tripodi, Rocco; Vascon, Sebastiano and Pelillo, Marcello
Title	Context Aware Nonnegative Matrix Factorization Clustering

Conference	International Conference on Pattern Recognition (ICPR 2016)
Organizer	International Association for Pattern Recognition (IAPR)
Citations	2 (Scopus) - 7 (Google Scholar)
Contributions	Tripodi conceived the idea and provided the theoretical model and its code. Vascon and Tripodi ran the experiments and provide the article's tables and figures. All authors discussed the results and contributed to the final manuscript.

Paper number	7
Filename	7-SemEval 2015.pdf
Author	Tripodi, Rocco, and Marcello Pelillo.
Title	WSD-games: A game-theoretic algorithm for unsupervised word sense disambiguation
Conference	Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015)
Organizer	Association for Computational Linguistics
Citations	3
Contributions	Tripodi conceived the idea and the theoretical model, developed the model's computational code, experiments, tables and figures. All authors discussed the results and contributed to the final manuscript.

Paper number	8
Filename	8-TTS 2015.pdf
Author	Delmonte, Rodolfo and Tripodi, Rocco
Title	Semantics and Discourse Processing for Expressive TTS
Conference	Proceedings of the First Workshop on Linking Computational Models of Lexical, Sentential and Discourse-level Semantics
Organizer	Association for Computational Linguistics
Citations	2
Contributions	Delmonte conceived the idea and developed the computational code. Tripodi developed the experiments. All authors discussed the results and contributed to the final manuscript.

Paper number	9
Filename	9-TAC 2009.pdf
Author	Delmonte, Rodolfo; Tonelli, Sara and Tripodi, Rocco
Title	Semantic processing for text entailment with VENSES
Conference	Proceedings of the TAC 2009 Workshop
Organizers	NIST, National Institute of Standards and Technology
Citations	14
Contributions	Delmonte conceived the idea and developed the computational code. Tripodi and Tonelli developed the experiments. All authors discussed the results and contributed to the final manuscript.

Paper number	10
Filename	10-CLic-IT 2017.pdf
Author	Tripodi, Rocco; Li Pira, Stefano
Title	Analysis of Italian Word Embeddings
Conference	Proceedings of the 4th Italian Conference on Computational Linguistics, CLiC-it 2017,
Organizers	AILC Associazione Italiana di Linguistica Computazionale
Citations	0 (Scopus) – 3 (Google Scholar)

Contributions	Tripodi conceived the idea and the theoretical model, developed the model's computational code, experiments, tables and figures. All authors discussed the results and contributed to the final manuscript.
---------------	---

Paper number	11
Filename	11-ICPRAM 2016
Author	Tripodi, Rocco and Pelillo, Marcello
Title	Document clustering games
Conference	Proceedings of the 5th International Conference on Pattern Recognition Applications and Methods
Organizer	Institute for Systems and Technologies of Information, Control and Communication (INSTICC)
Citations	3 (Scopus) – 3 (Google Scholar)
Contributions	Tripodi conceived the idea and the theoretical model, developed the model's computational code, experiments, tables and figures. All authors discussed the results and contributed to the final manuscript.

VIII(C) - book chapters

Paper number	12
Filename	12-DCG SDS 2017 .pdf
Author	Tripodi, Rocco and Pelillo, Marcello
Title	Document Clustering Games in Static and Dynamic Scenarios
Book	Image Processing, Computer Vision, Pattern Recognition, and Graphics
Publisher	Springer
Year	2016
Citations	0 (Scopus) – 1 (Google Scholar)
Contributions	Tripodi conceived the idea and the theoretical model, developed the model's computational code, experiments, tables and figures. All authors discussed the results and contributed to the final manuscript.

Paper number	13
Filename	13-SSM 2016 .pdf
Author	Delmonte, Rodolfo and Tripodi, Rocco
Title	Semantics for Social Media
Book	Future and Emergent Trends in Language Technology
Publisher	Springer
Year	2015
Citations	0 (Scopus) – 0 (Google Scholar)
Contributions	Delmonte conceived the idea and developed the computational code. Tripodi developed the experiments. All authors discussed the results and contributed to the final manuscript.

Paper number	14
Filename	14-SPARQL 2013.pdf
Author	Tripodi, Rocco and Delmonte, Rodolfo
Title	From Logical Forms to SPARQL Query with GETARUNS
Book	New Challenges in Distributed Information Filtering and Retrieval
Publisher	Springer
Year	2013
Citations	0 (Scopus) – 1 (Google Scholar)

Contributions	Tripodi conceived the idea and the theoretical model, developed the model's computational code, experiments, tables and figures. All authors discussed the results and contributed to the final manuscript.
---------------	---

Paper number	15
Filename	15-GreG 2011.pdf
Author	Delmonte, Rodolfo and Tripodi, Rocco
Title	Linguistically-Based Reranking of Google's Snippets with GreG
Book	Advances in Distributed Agent-Based Retrieval Tools
Publisher	Springer
Year	2011
Citations	1 (Scopus) – 1 (Google Scholar)
Contributions	Delmonte conceived the idea and developed the computational code. Tripodi developed the experiments. All authors discussed the results and contributed to the final manuscript.

Paper number	16
Filename	16-Transductive 2017
Author	Tripodi, Rocco, Marcello Pelillo
Title	Transductive Learning Games for Word Sense Disambiguation
Book	Cognitive Approach to Natural Language Processing
Publisher	Elsevier Ltd.
Year	2017
Citations	0 (Scopus) – 0 (Google Scholar)
Contributions	Tripodi conceived the idea and the theoretical model, developed the model's computational code, experiments, tables and figures. All authors discussed the results and contributed to the final manuscript.

Skills

- Lecturing
- EU projects-related planning
- Supervision of graduate and PhD students
- LaTeX
- Matlab
- Python
- Data visualization
- Information extraction
- Natural Language Processing
- Computational Linguistics
- Corpus linguistics
- Diachronic linguistics
- Semantics
- HTML
- XML
- TEI
- Javascript
- Wordpress
- Network Science
- Digital Humanities
- Digital History
- Information Theory
- Scientific reviewer

Collaborations

- Linguistic Computing Laboratory at Università La Sapienza (Prof. Roberto Navigli)
- Knowledge Lab, University of Chicago (Prof. James Evans)
- Max Planck institut fur mathematik, Leipzig Germany (Prof. Juergen Jost)
- The Institute of Mathematical Sciences (IMSc), Chennai, India (Areejit Samal)
- Huawei UK Research Centre, London England (Ignacio Iacobacci)
- Artificial Intelligence Research Group at University Tor Vergata (Prof. Roberto Basili)
- Member of the ODYCCCEUS project (Opinion Dynamics and Cultural Conflict in European Spaces) – H2020