

PERSONAL INFORMATION

Filippo Chiarello, PhD

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ACTUAL POSITION

Assistant Professor in Data Science & Innovation Management

WORK EXPERIENCE

October 2020 - Present

Assistant Professor, RTDa

Università di Pisa, Department of Energy, Systems, Territory and Construction Engineering (DESTEC)

Dicember 2018 - October 2020

Post Doctoral Researcher

Università di Pisa, Department of Energy, Systems, Territory and Construction Engineering (DESTEC)

- Teaching activities for the coursers of Strategic and Competitive Intelligence and New Product Development
- WP Leader for the European Project Assets+ (<https://assets-plus.eu/>)
- WP Leader for the European Ulisse (<https://ulisseproject.eu/>)

November 2015 - November 2018

Phd Fellow

Università di Pisa, Department of Energy, Systems, Territory and Construction Engineering (DESTEC)

- The research activities covers all the data analysis chain (from information retrieval to visualization). The main focus is on innovative ways of extracting and using patent information for business applications. The activities are done in collaborations with the companies Erre Quadro s.r.l. and TOI s.r.l. and with Fondazione Giacomo Brodolini.

Dicember 2018 - Present

Project manager for "Understanding European Projects Trough Text Mining"

Fondazione Giacomo Brodolini, Università di Pisa

- Analysis of about 2.000 european projects proposal and results. The team was made by 2 researchers and an expert on european calls. The main activities were writing technical reports and policy recommendations. The main goals were:
- Understanding the main objectives and results achieved by the projects
- Assessing the factors influencing the performances of the beneficiaries.
- Promoting best practices in impact assessment.

September 2016-March 2017

Project manager for "Analysis of Regional Projects on Research and Development"

Regione Toscana, ItaliaNLP Lab, Università di Pisa

- Analysis of 700 regional research and development projects. The team was made by 4 researchers. The main goals were:
 1. to have a vision on what are the technical and scientific content of the projects financed using booth tailored and state of the art Text Mining and Natural Language Processing techniques
 2. to develop benchmarking policies and stakeholder initiatives
 3. to effectively communicate the results to a non-scientific audience

January 2012 - Present

Data Scientist

Erre Quadro s.r.l., external collaborator

- Design and execute text mining analysis on various textual sources (patents, papers, curricula ...)
- Develop dictionaries and taxonomies through desk research and data collection
- In-depth analyses of HR related informations (job profiles and skills)
- Visualize and communicate results to the customers through report and dashboards

March 2016 - Present

Teaching Assistant for the course “Strategic and Competitive Intelligence”

Master of Science in Management Engineering, Università di Pisa

- The course teaches the applications of data science techniques for extracting information from strategic patents. The focus is also on survey techniques and how to automatically process the results of a survey.

Jan 2018 - Present

CEO and Cofounder

Texty

- Texty is a start-up projects that has the goal of using natural language processing tools for extracting valuable information from documents (especially patents) for HR.
- Texty is one of the finalist for the business competition HR4.0 powered by Lazioinnova and Adecco.

PUBBLICATIONS

- Bonaccorsi, Andrea, **Chiarello, Filippo**, Fantoni, Gualtiero (2020). Emergin technologies and industrial leadership. A Wikipedia based strategic analysis of Industry 4.0. Experts System with Applications. Accepted for Publication
- Fareri, Silvia, Fantoni, Gualtiero, **Chiarello, Filippo**, Coli, Elena, & Binda, Anna (2020). Estimating Industry 4.0 impact on job profiles and skills using text mining. Computers in Industry, 118, 103222.
- Trivelli, Leonello; Apicella, Andrea; **Chiarello, Filippo**; Rana, Roberto; Fantoni, Gualtiero; Tarabella, Angela (2019) “From precision agriculture to Industry 4.0: Unveiling technological connections in the agrifood sector.” British Food Journal, Vol. 121, No. 8, pp. 1730-1743, DOI:10.1108/BFJ-11-2018-0747 [IF: 1,717; Classificazione AiiG: Bronze; Indicizzata Scopus]
- Dassisti, Michele; **Chiarello, Filippo**; Fantoni, Gualtiero; Priarone, Paolo C; Ingarao, Giuseppe; Campana, Giampaolo; Matta, Andrea; Cimatti, Barbara; Colledani, Marcello; Frigerio, Nicola (2019), “Benchmarking the sustainable manufacturing paradigm via automatic analysis and clustering of scientific literature: A perspective from Italian technologists”. Procedia Manufacturing, Vol. 33, pp. 153-159, DOI: 10.1016/j.promfg.2019.04.104 [Indicizzata Scopus]
- **Chiarello, Filippo**; Trivelli, Leonello; Bonaccorsi, Andrea; Fantoni, Gualtiero (2018). “Extracting and mapping industry 4.0 technologies using Wikipedia.” Computers in Industry, Vol. 100, n. 244-257. DOI:10.1016/j.compind.2018.04.006 [IF:4,769; Classificazione AiiG: Silver; Indicizzata Scopus]
- **Chiarello, Filippo**; Cimino, Andrea; Fantoni, Gualtiero; Dell’Orletta, Felice (2018) “Automatic users extraction from patents.” World Patent Information, Vol. 54, pp. 28-38, DOI:10.1016/j.wpi.2018.07.006 [Indicizzata Scopus]
- Belingheri, Paola; **Chiarello, Filippo**; Martini, Antonella; Bonaccorsi, Andrea (2019) “Attracting Talent Through the Elimination of Gender Bias in Job Vacancies: A Preliminary Lexical Approach.” R&D Management Conference, Paris, 17-21 June
- **Chiarello, Filippo**; Belingheri, Paola; Fronzetti Colladon, Anrea; Martini, Antonella; Bonaccorsi, Andrea (2019) “Value Creation in Emerging Technologies through Sentiment Analysis of Scientific Papers: The Case of Blockchain.” R&D Management Conference, Paris, 17-21 June

- **Chiarello, Filippo**; Melluso, Nicola; Bonaccorsi, Andrea; Fantoni, Gualtiero (2019) "A Text Mining Based Map of Engineering Design: Topics and their Trajectories Over Time." Proceedings of the Design Society: International Conference on Engineering Design, Delft DOI:10.1017/dsi.2019.283 **Chiarello, Filippo**; Cirri, Ilenia; Melluso, Nicola; Fantoni, Gualtiero; Bonaccorsi, Andrea; Pavanello, Tommaso (2019) "Approaches to automatically extract affordances from patents". Proceedings of the Design Society: International Conference on Engineering Design, Delft DOI:10.1017/dsi.2019.255
- **Chiarello, Filippo**; Bonaccorsi, Andrea; Fantoni, Gualtiero; Ossola, Giacomo; Cimino, Andrea; Dell'Orletta, Felice (2018), "Technical Sentiment Analysis: Measuring Advantages and Drawbacks of New Products Using Social Media". 2nd International Conference on Advanced Research Methods and Analytics (CARMA 2018) DOI:10.4995/CARMA2018.2018.8336
- **Chiarello, Filippo**; Fantoni, Gualtiero; Bonaccorsi, Andrea (2017), "Product description in terms of advantages and drawbacks: Exploiting patent information in novel ways", DS 87-6 Proceedings of the 21st International Conference on Engineering Design (ICED 17) Vol 6: Design Information and Knowledge, Vancouver, Canada, 21-25.08. ISBN: 978-1-904670-94-0 [Indicizzata Scopus]
- De Benetti, Nicolo; Fantoni, Gualtiero; **Chiarello, Filippo**; Bonaccorsi, Andrea; Fadel, Georges; Mata, Ivan (2017), "On the relationship between affordance and expected performance", DS 87-4 Proceedings of the 21st International Conference on Engineering Design (ICED 17) Vol 4: Design Methods and Tools, Vancouver, Canada, 21-25.08. ISBN: 978-1-904670-92-6 [Indicizzata Scopus]
- Bonaccorsi A.; **Chiarello, Filippo**; Fantoni Gualtiero; D'Amico Laura (2017), "Mapping users in patents. Steps towards a new methodology and the definition of a research agenda". European Policy for Intellectual Property EPIP Conference
- **Chiarello, Filippo**; Fantoni, Gualtiero; Andrea, Bonaccorsi; Kammering, Hanna (2017), "Industry 4.0 vs Industrie 4.0: how different countries see the fourth industrial revolution. A quantitative study." R&D Management Conference Milan, Italy – 30th June/04th July 2018
- Rosini, Nicola; Cominelli, Lorenzo; Pieroni, Marco; **Chiarello, Filippo**; Mazzei, Daniele; Fantoni, Gualtiero. (2016) "Personality-Friendly" Objects: A New Paradigm for Human-Machine Interaction." ACHI 2016: The Ninth International Conference on Advances in Computer-Human Interactions, ISBN: 978-1-61208-468-8
- Fantoni, Gualtiero; **Chiarello, Filippo**; Fareri, Silvia; Pira, Simona; Guadagni, Alessandro (2018), "Defining industry 4.0 professional archetypes: a data-driven approach", in Hogart, T. (Eds) Economy, Employment and Skills: European, Regional and Global Perspectives in an age of Uncertainty, The Quaderni series, ISBN 9788895380452, pp. 75-94
- Fareri, Silvia; **Chiarello, Filippo**; Coli, Elena; Teloni, Diego; Dente, Giancarlo; Fantoni, Gualtiero (2018), "Workers 4.0: skills, profiles and jobs in different business functions", in Hogart, T. (Eds) Economy, Employment and Skills: European, Regional and Global Perspectives in an age of Uncertainty, The Quaderni series, ISBN 9788895380452, pp. 95-108
- Trivelli, Leonello; **Chiarello, Filippo**; Apicella, Andrea; Fantoni, Gualtiero; Tarabella, Angela, (2018), "Agricoltura di Precisione e Industria 4.0: possibili integrazioni e sviluppi tecnologici". pp.366-371. In ATTI DEL XXVIII CONGRESSO AISME 2018 - ISBN:978-88-943351-0-1
- **Chiarello, Filippo**; Bonaccorsi, Andrea; Fantoni, Gualtiero, (2019) "Technical sentiment analysis: measuring advantages and drawbacks of new products using social media", XXX Riunione Scientifica Annuale Associazione italiana di Ingegneria Gestionale (RSAiIG 2019)Torino, 17 e 18 Ottobre 2019
- **Chiarello, Filippo**; Trivelli, Leonello; Bonaccorsi, Andrea; Fantoni, Gualtiero, (2019) "Extracting and mapping Industry 4.0 technologies using Wikipedia", XXX Riunione Scientifica Annuale Associazione italiana di Ingegneria Gestionale (RSAiIG 2019)Torino, 17 e 18 Ottobre 2019
- **Chiarello, Filippo** (2019), "StakeholderRs: Mapping People Impacted by R", useR! 2019, Toulouse - France
- **Chiarello, Filippo**, Giacomo Ossola, Gualtiero Fantoni, Andrea Bonaccorsi, Andrea Cimino, Felice Dell'Orletta (2018), "Technical sentiment analysis: predicting the success of new products using social media", JADT 2018: 14 es Journées internationales d'Analyse statistique des Données Textuelles, Roma
- **Chiarello, Filippo**, Fareri Silvia (2018), "What kind of contributions does research provides? Mapping issue-based statements in research abstracts, JADT 2018: 14 es Journées internationales d'Analyse statistique des Données Textuelles, Roma
- Trivelli, L.; **Chiarello, Filippo**; Apicella, Andrea; Fantoni, Gualtiero; Tarabella, Annamaria (2018). "Agricoltura di Precisione e Industria 4.0: possibili integrazioni e sviluppi tecnologici", XXVIII Congresso Nazionale di Scienze Merceologiche, 21-23 febbraio 2018, Firenze. Tesi di Dottorato
- **Chiarello, Filippo** (2019) "Mining Technical Knowledge: Natural Language Processing Techniques and Engineering Management Methods", Dottorato XXXI° ciclo, Dipartimento di Ingegneria dell'Energia, dei Sistemi, del Territorio e delle Costruzioni, l'Università di Pisa

INTELLECTUAL PROPERTIES

TradeMark: Technimeter 4.0®

- Technimeter 4.0 is an enriched dictionary of technologies related to industry 4.0. It has been successfully used for academic research and in several business applications.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

EDUCATION AND TRAINING

September 2010-July 2015

Master of Science in Management Engineering (110/110 cum laude)

Università di Pisa

I, the undersigned, hereby declare that the above is authentic and genuine. I further declare that I am available to work for the period(s) foreseen for the position for which my CV has been included in the event that this application is successful.

I authorize the processing of my personal data pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and the GDPR (EU Regulation 2016/679)".

PISA, 25/10/2021

