John Bianchi
Professional CV

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⚥ Male
🎂 08/02/1995
🏠 55100 Lucca (LU) - Italy

john.lenci.bianchi@gmail.com ✉
www.johnbianchi.it 🏴
(+39) 3318732944 📱
ORCID: 0009-0006-2582-1480 🏴

Education

- **National Ph.D. program in Cybersecurity (Ph.D.-CySec)**   01 Dec. 2023 – Ongoing
  IMT School for Advanced Studies Lucca   *Lucca, Italy*
  - Tools and Techniques for Scalable and Usable Cyber Ranges
  - **Contact person:** Gabriele Costa
  - **Curriculum:** Software, System and Infrastructure Security

- **MSc Digital humanities - *Language technology* — 101/110**   26 Sept. 2019 – 03 Feb. 2022
  University of Pisa   *Pisa, Italy*
  - LM-43 - 2nd level degree in Computer Science for humanities - Department of Philology, Literature and Linguistics. Training course in *Language technology*
  - **Dissertation/thesis title**: Automatic recognition of scientific names of species in texts for FAO document indexing. **Thesis supervisor**: Dr. Gianpaolo Coro

- **BSc Digital humanities — 98/110**   04 Sept. 2014 – 09 May 2019
  University of Pisa   *Pisa, Italy*
  - L-10 - 1st level degree in Humanities - Department of Philology, Literature and Linguistics
  - **Dissertation/thesis title**: Design and development of a low-cost platform for the acquisition and analysis of tourism related data. **Thesis supervisor**: Dr. Andrea Marchetti

- **Erasmus+ Programme**   24 Sept. 2020 – 11 Jan. 2021
  King's College London   *London, United Kingdom*

- **Italian High School Diploma — 67/100**   Sep. 2009 – July 2014
  Liceo Artistico "A. Passaglia"   *Lucca, Italy*

Work Experience

- **Research Collaborator at**   01 Jan. 2023 - 01 Dec. 2023
  IMT School for Advanced Studies Lucca   *Lucca*
  - Member of the *TOFFEe* project (*TOols for Fighting FakEs*): my research activities focus on detecting the trustworthy level of a news article, by exploiting deep learning techniques and explainable AI. In particular, I am adopting

* data scraping software such as *Selenium* with *Chromedriver* to extract textual content from more than 40 news websites using a *pipenv*-managed development environment.

* Google *Colab* and *Jupyter* Notebooks for data mining, using tools such as *Scikit-Learn, Pandas, Numpy, Matplotlib, Seaborn, PyTorch* and *TensorFlow.*

* Bert-derived transformers for text classification and study of these techniques through explainability techniques (*LIME, EXBERT, SHAP.*)

- **Junior staff in consulting**   21 March. 2022 - 21 Dec 2022
  Deloitte & Touche SpA   *Milano, Italy*

  – Full-Stack e-commerce website development using *Salesforce commerce cloud.*
  – Development of an e-commerce platform for *Unicoop Firenze's* online grocery shopping.

- **Trainee student**   01 Mar. 2021 - 01 Jun. 2021
  Institute of Information Science and Technologies - ISTI CNR   *Pisa, Italy*

  – NLP software development for the Named Entity Recognition task required by the *ASFA* division of *Food and Agriculture Organization of the United Nations* (FAO).

- **Web Developer**   01 Jun. 2020 - 01 Jan. 2021
  Wally Communication   *Lucca, Italy*

  – Website development using *Wordpress* with *Elementor* page builder.

- **ICT help desk agent**   01 Jun. 2020 - 01 Oct. 2020
  Accademia di Belle Arti di Carrara   *Massa-Carrara, Italy*

  – Technical support for examination and graduation session.

- **Digital audio transcriber**   15 Feb. 2019 - 15 Jul. 2019
  Sigma Technologies S.L.U.   *Madrid, Spain - Remote work*

  – Transciption of Google voice action digital audio.

- **Trainee student**   01 Feb. 2019 - 01 Mar. 2019
  Institute of Informatics and Telematics - IIT CNR   *Pisa, Italy*

  – Development of Web scraping software for the automated acquisition of data regarding tourism flow in four different areas of Tuscany.

- **Bartender**   15 Jun. 2016 - 30 Dec. 2019
  Bar Ponte Del Giglio   *Lucca, Italy*

  – - Dealing with customers, handling phone calls and payments..

Projects

- **Reviewer**   01 Jan. 2023 - Ongoing
  IMT School for Advanced Studies Lucca   *Lucca*

- – SIGIR'23 (Special Interest Group on Information Retrieval), 2023
  - – ITASEC 2023 (Italian Conference on Cybersecurity), 2023
  - – ESORICS 2023 (European Symposium on Research in Computer Security), 2023
  - – EAI Intetain 2023 - 14th EAI International Conference on Intelligent Technologies for Interactive Entertainment

- **Website Development for *Lucca National Museums***   01 Jan. 2023 - Ongoing
  IMT School for Advanced Studies Lucca
  - – Coordinators: Prof. Gabriele Costa Prof. Emanuele Pellegrini
  - – Adoption of web development technologies, including HTML, CSS, and JavaScript, to create an interactive and visually appealing website.
  - – Implementation of dedicated APIs using Node.js MySQL and Docker.

- **Automatic recognition of scientific names of species in texts for FAO document indexing**
  Coordinator: Prof. Gianpaolo Coro
  - – Project carried out as dissertation for my master's degree.
  - – Timeline for software development: 01 Mar. 2021 - 01 Jun. 2021.
  - – Timeline for thesis text realization: 01 Aug. 2021 - 01 Dec. 2021
  - – Named entity recognition for recognizing scientific names of species in texts in a computationally efficient manner and integrated as a web service to ASFA. for automatic document indexing.
  - – Resources:
    - * Web service page - nlp.d4science.org/asfa/
    - * GitHub repository - github.com/cybprojects65/SpeciesNamesNER
    - * Documentation - johnbianchi.it/documents/Taxa_project_Documentation.pdf

- **NLP of Tweets about disasters**
  Coordinator: Dr. Andrea Esuli
  - – This project has been conducted for the *'Text Analytics'* course of my university studies.
  - – Development of two different models to classify the tweets: the first one, based on a traditional approach, manually implements feature engineering, the second one relies on the Bert language model, through Simple Transformers library.
  - – The project was developed for a competition on Kaggle.
  - – Timeline: Jun. 2021 - Jul. 2021
  - – Resources:
    - * GitHub repository - github.com/john-lenci-bianchi/Natural-Language-Processing-with-Disaster-Tweets/blob/main/Disaster_tweets.ipynb
    - * Kaggle competition - kaggle.com/c/nlp-getting-started

- **Data Mining Project, Data analysis on Carvana data**
  Coordinator: Prof. Anna Monreale, Prof. Dino Pedreschi
  - – This project has been conducted for the *'Data mining: fundamentals'* course of my university studies.
  - – Application of statistis data mining to analyze data concerning the transportation sector.
  - – Timeline: 15 Sept. 2019 - 01 Dec. 2019

- Resources:
    * Project documentation - johnbianchi.it/documents/Data_Mining_I.pdf

- **Project for the course *Computational Linguistics II***
  Coordinator: Prof. Simonetta Montemagni, Dr. Giulia Venturi
    - Developer activity for the *'Computational Linguistics II'* course of my university studies.
    - Collection of a test corpus to evaluate the accuracy of a chain of automatic linguistic annotators.
    - Timeline: 01 Feb. 2020 - 01 Jun. 2020
    - Resources:
        * Project documentation - johnbianchi.it/documents/Report_Linguistica_Computazionale_II.pdf

- **Project for the course *'Artificial Intelligence And Society'***
  Coordinator: Dr. Ashwin Mathew
    - Final essay for the course "Artificial Intelligence And Society" at King's College London.
    - Timeline: 01 Sept. 2020 - 01 Jan. 2021
    - Resources:
        * Essay - johnbianchi.it/documents/The_price_of_automatic_communication.pdf

- **Design and development of a low-cost platform for the acquisition and analysis of tourism data**
  Coordinator: Dr. Andrea Marchetti
    - This project has been carried out as the dissertation for my bachelor's degree.
    - Timeline for software development: Sept. 2018 - Feb. 2019.
    - Timeline for thesis text realization: 01 Feb. 2019 - 01 Apr. 2019
    - Web scraping of TripAdvisor using a Raspberry Pi 3 Model B+ and development of a dedicated website for the visualization of the extracted data.
    - Resources:
        * Documentation - johnbianchi.it/documents/Documentation.pdf
        * Web page - johnbianchi.it/tripadvisor

Participation to Workshops

- **Social Networks Dynamics and Impact on Financial Markets**   26-27 Jan. 2023
  Organizers: IMT School for Advanced Studies Lucca, University of Rome Tor Vergata

Foreign language skills

- **English IELTS Academic**   01 Dec. 2018
  British Council.
    - Europass level B2.

I authorize the processing of personal data pursuant to Legislative Decree 196/2003.

John Bianchi