

# Course Title

## ***Legal acceptability of symbiotic AI***

### **Teacher**

Piero Marra, Ph.D.

### **Course description (min 150, max 300 words)**

The legal approach to AI typically addresses crucial aspects in the collection, processing, and exchange of sensitive information on citizens and companies, e.g., during investigation activities (especially for tax purposes and to fight terrorism and illicit trafficking), which impact on fundamental rights such as freedom, privacy and the right of defense on the one hand, and public order, security and state sovereignty on the other. The existing regulations in the field prescribe the compliance of AI-based decision-making algorithms with fundamental rights as well as with the principles of due process in legal proceedings. However, the acceptability of Symbiotic AI from the legal viewpoint passes also through the embedding of legal rules in algorithmic decisions, e.g. to overcome current weaknesses such as the notorious "bias in, bias out" problem. All these aspects trigger foundational research in symbiotic AI and will be the subject of investigation in this course.

### **Course period**

December 2023-February 2024

### **SSD**

IUS/20

### **Course References**

[1] Incampo Antonio, *Metafisica del processo. Idee per una critica della ragione giuridica*, Cacucci, Bari, 2016<sup>2</sup>.

[2] Amato Mangiameli, Agata C., *Informatica giuridica. Appunti e materiali ad uso di lezioni*, Giappichelli, Torino, 2015<sup>2</sup>.

[3] Incampo Antonio, Scalfati Adolfo (eds.), *Giudizio penale e ragionevole dubbio*, Cacucci, Bari, 2017.

### **Credits and Hours**

2 credits, one of lectures (8 hours) and one of practice (15 hour), for a total of 23 hours.

### **Exam Modality**

Two alternatives are available to the student to pass this exam (Teacher may choose other modalities):

- 1) Paper presentation. Students present the content of 2 papers suggested by the teacher. No groups are allowed.
- 2) Project. Students implement and experimentally validate an algorithm or its variation from a paper suggested by the teacher. Projects can be done in groups of 1-3 students, depending on the algorithm.

## Teacher CV

Attached

### Teacher Main Publications

- [1] Marra Piero, *Per una moralità procedurale del diritto. Considerazioni attuali a partire da Lon L. Fuller*, Cacucci, Bari, 2022.
- [2] Marra Piero, "Oltre la misura". *Considerazioni brevi su ragionamento e calcolabilità giuridica*, in "Annali del Dipartimento Jonico 2022", in corso di pubblicazione.
- [3] Marra Piero, Galatola Irene, *Effectiveness as Threat to Constitutional Systems*, in Javier Cremades, Cristina Hermida (Eds.), *Encyclopedia of Contemporary Constitutionalism*, Springer, Cham, Chapter 142-1, 2022, [https://doi.org/10.1007/978-3-319-31739-7\\_142-1](https://doi.org/10.1007/978-3-319-31739-7_142-1)
- [4] Marra Piero, "Intenzionalità" del diritto in Lon L. Fuller, in "L'Ircocervo—Prima rivista elettronica di metodologia giuridica, teoria generale del diritto e dottrina dello stato", Vol. 20, n. 2, anno 2021, pp. 186–202. DOI: <https://doi.org/10.57581/LIRCOCERVO.20.2021.2.10>
- [5] Marra Piero, *La buona fede "autointegrativa" nel diritto contrattuale europeo*, in Persio Tincani (a cura di), *Diritto e futuro dell'Europa. Contributi per i workshop del XXXI Congresso della Società Italiana di Filosofia del Diritto (Bergamo, 13-15 settembre 2018)*, L'Ornitorinco Edizioni, 2020, pp. 46–54.
- [6] Marra Piero, *La sostenibile certezza nel dubbio. A proposito di un libro di Antonio Incampo e Adolfo Scalfati su "Giudizio penale e ragionevole dubbio"*, in "DIRITTO & QUESTIONI PUBBLICHE", Vol. 20, n. 1, 2020, pp. 293–300.
- [7] Marra Piero, *Rezensionen a "Universality of Punishment" a cura di Antonio Incampo e Wojciech Żelaniec*, in "Archiv für Rechts- und Sozialphilosophie", Vol. 3, anno 2019, pp. 444–449.
- [8] Marra Piero, *Universalità e federalismo penale. Riflessioni su Universality of Punishment, a cura di Antonio Incampo e Wojciech Żelaniec*, in "Rivista Internazionale di Filosofia del diritto", n. 1, anno 2018, pp. 133–143.
- [9] Marra Piero, *Sulla direzione manageriale del diritto. Una corrispondenza epistolare tra Fuller ed Hart*, in "Annali del Dipartimento Jonico", [www.annalidipartimentojonico.org](http://www.annalidipartimentojonico.org), pubblicato il 31 dicembre 2014.
- [10] Marra Piero, *Creative Commons: fenomenologia di un movimento*, in rivista on line di diritto ed economia dell'impresa "I Battelli del Reno", [www.ibattellidelreno.it](http://www.ibattellidelreno.it) – [www.ibattellidelreno.uniba.it](http://www.ibattellidelreno.uniba.it) pubblicato in data 30 ottobre 2013.

PERSONAL INFORMATION **Piero Marra Ph.D.** [piero.marra@uniba.it](mailto:piero.marra@uniba.it)

Date of birth 01.07.1989 | Nationality Italian

## CURRENT POSITION

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20.02.2023 **RTDa – Assistant professor**  
(non-tenure track) – FAIR – Future AI Research  
PE00000013, Spoke 6 – Symbiotic AI (CUP H97G22000210007), under the NRRP MUR  
Program funded by NextGenerationEu.  
Department of Law – University of Bari Aldo Moro

## EDUCATION

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October 2016 – 11.12.2020 **Ph.D. in “Diritto romano, teoria degli ordinamenti e diritto privato del mercato”**  
held at Sapienza University, *cum laude*, defending a final dissertation entitled “*Moralità procedurale e intenzionalità del diritto in Lon L. Fuller*”.

October 2008- 21 October 2013 **Master’s degree in law**  
held at Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro – *magna cum laude*

## PREVIOUS POSITIONS

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15.3.2017–20.02.2023 **Cultore della materia**  
- at Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro  
- at Department of Law – University of Bari Aldo Moro

9.9.2019 – 28.11.2019 **Tutor in “Philosophy of Law” – 36 h.**  
at Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro

25.3.2019–20.5.2019 **Tutor in “Theory of Legal Argumentation” – 36 h.**  
at Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro

11.9.2017–25.10.2017 **Tutor in “Theory of Legal Argumentation” – 36 h.**  
at Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro

3.1.2018–9.2.2018 **Course Teacher in “Order management, sales and administrative management control” – 50 h.**  
POR PUGLIA FSE 2014-2020, Avviso Pubblico n. 4/FSE/2017, Circolo Culturale E. Fermi.

OTHER INFORMATIONS  
RELATED TO SCIENTIFIC  
ACTIVITIES**Reviewing activities**

Member of the Editorial Board of the Series “Unità del sapere giuridico. Quaderni di scienze penalistiche e filosofico-giuridiche” – Cacucci, Bari.

Member of the Editorial Board of *L'Ircocervo – First Italian Digital Journal of Legal Methodology, General Theory of Law and Doctrine of the State* – <http://www.lircocervo.it/>

Member of the Editorial Office of *Theory and Critics of Social Regulation Journal*.

**Membership of  
Scientific Societies**

Since 27.03.2017 is member of the “Italian Society of Philosophy of Law”.

**Awards**

**Special Mention** for the PhD thesis discussed at Sapienza University from January 2017 to December 2020.

**Conferences and seminar**

**Workshop “Abuso del diritto” – National Convention of the Italian Society of Philosophy of Law “The Dark Side of Law”** – 24.9.2022 – University of Palermo

**Webinar: “Digital transition e innovation technology. Profili economico giuridici delle opportunità, skills e sfide nel prossimo futuro” – Panel 2 – “Linee evolutive del diritto delle piattaforme digitali”** – 27.5.2021 – Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro

**Public Seminar at PhD Course “Diritto romano, Teoria degli Ordinamenti, Diritto privato del mercato”** – 10.5.2021 – Rome Sapienza University

**Seminar “Diritti e pluralismo culturale”** – 13.5.2020 – Rome Sapienza University

**Seminar “Ricerca della giustizia, formalismo giuridico, intelligenza artificiale”** – 13.12.2019 – Rome Sapienza University

**Seminar “Interpretazione e critica del formalismo giuridico”** – 17.4.2019 – Rome Sapienza University

**Workshop “Fonti e Giurisdizione” – National Convention of the Italian Society of Philosophy of Law “Law and the Future of Europe”** – 13.9.2018 – University of Bergamo

**Seminar “Ermeneutica e saperi giuridici”** – 15.3.2018 – Rome Sapienza University

**Seminar “Postmodernità e diritto”** – 6.3.2018 – Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro

**Seminar “Il dovere giuridico e la giustizia”** – 22.2.2017 – Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro

**Seminar “Il dovere giuridico e la giustizia”** – 1.2.2016 – Ionian Department in Mediterranean Legal and Economic Systems: Society, Environment and Culture – University of Bari Aldo Moro.