

Emilio Calvano

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Personal information: Italian. Married, 2 children.

Employment

- **Associate Professor, Università di Bologna**, Department of Economics, April 2019-present.
- **Assistant Professor, Università di Bologna**, Department of Economics, April 2016-March 2019. (RTD-b).
- **Post-doc Research fellow, Università di Napoli Federico II**, Center for studies in Economics and Finance, September 2013 – March 2016. (Assegno di ricerca)
- **Research Fellow and lecturer, Università Bocconi**, Dipartimento di Economia. (docente a contratto e assegnista).
- **Post-Doctoral Research Fellow, Harvard University**, Economics department. September 2008-August 2009

Professional affiliations and appointments

- Associate Faculty member, **Toulouse School of Economics**, France. 2018 - ongoing
- Research Affiliate, **Einaudi Institute for Economics and Finance**, Rome. 2021 - Ongoing
- Research Fellow, **Center for Economic Policy Research (CEPR)** – London UK, 13.12-2019 – ongoing
- Research Fellow, **Centro Studi per l’Economia e la Finanza**. U. Napoli Federico II. 1.9.2013 - ongoing
- Fellow, **Centro Studi Luca D’agliano**. Università di Milano. 10.8.2019 – ongoing
- Fellow, **Innocenzo Gasperini Institute for Economic Research (IGIER)** – Università Bocconi, Milano. 1.9.2009 – 31.8.2013.

Academic qualifications

- **Ph.D. in Economics**, Université Toulouse 1 Capitole, November 2008. Supervisor: Prof. Bruno Jullien. Dissertation title: “Essays in Applied Economic Theory.” Dissertation Committee: Jean Tirole, Jacques Cremer, Jorgen Weibull, Fausto Panunzi. Grade: Très honorable avec félicitations du jury.
- **Diplôme européen d’économie quantitative approfondie**. Université Toulouse 1 Capitole. July 2005. With distinction
- **Master 2 - Economie mathématique et econometrie**. Université Toulouse 1 Capitole. July 2004. With distinction.
- **Laurea in Economia Politica** (vecchio ordinamento) Università Bocconi, April 2003. *Summa Cum Laude*, Supervisor(s): Fausto Panunzi.

Training

- **Visiting Research Fellow** Microsoft Research New England, Summer 2008
- **Visiting fellow, Harvard University**, department of Economics, September 2007, August 2008. Working as a Research assistant for Susan Athey.

National Scientific Qualification (Abilitazione Scientifica Nazionale)

- Full professor (prima fascia) in Economia Politica 13/A1; Date obtained: 5/11/2020; Expiry: 5/11/2029.
- Full professor (prima fascia) in Politica Economica 13/A2; Date obtained: 19/11/2020; Expiry: 19/11/2029.

Scientific Publications

Algorithmic collusion with imperfect monitoring
with G. Calzolari, V. Denicolò and S. Pastorello.

International Journal of Industrial Organization, Accepted, January 2021

ANVUR: Fascia A per area 13 (lista 9.11.2020),

Web of Science: IF 2019 = 1.113; Rank Q3 in ECONOMICS.

Autonomous algorithmic collusion: Economic research and policy implications

with S Assad, G Calzolari, R Clark, V Denicolò, D Ershov, J Jonshon, S Pastorello, A Rhodes, L Xu, M Wildenbeest

Oxford Review of Economic Policy, Accepted, January 2021

ANVUR: Fascia A per area 13 (lista 9.11.2020),

Web of Science: IF 2019 = 3.438; Rank Q1 in ECONOMICS.

Protecting Consumers from High prices due to AI

with J. Harrington, G. Calzolari, V. Denicolò, S. Pastorello.

Science, November 27th, 2020.

[Featured on the cover page of Science – link here](#)

ANVUR: Fascia A per area 13 (lista 9.11.2020)

WOS: IF 2019 = 41.846; WOS Multidisciplinary Sciences Q1

<https://doi.org/10.1126/science.abe3796>

Artificial Intelligence, Algorithmic Pricing and Collusion;

with G. Calzolari, V. Denicolò and S. Pastorello.

American Economic Review, Vol. 110, No. 10, October 2020, (pp. 3267-97).

Media Coverage (links included): [\[Financial Times\]](#) [\[Wall Street Journal\]](#) [\[US National Public Radio\]](#) [\[Popular mechanics\]](#) [\[Le Monde\]](#) [\[MIT tech review\]](#) [\[VOXEU column\]](#) [\[Oxford Business law blog\]](#) [\[MachineByte UK\]](#) [\[Canadian Public Radio\]](#) [\[DAS Profil - Austria\]](#) [\[Scientific American - Italia\]](#)

ANVUR: Fascia A per area 13 (lista 9.11.2020),

Web of Science: IF 2019 = 5.558; Rank Q1 in ECONOMICS;

<https://doi.org/10.1257/aer.20190623>

Merger Policy in Digital Markets: An Ex-Post Assessment;
with E Argentesi, T Duso, P Buccirossi, E Marrazzo, S Nava.
Journal of Competition Law & Economics, July 2020

Web of Science: IF 2019 = 0.565; Rank Q4 in ECONOMICS;
<https://doi.org/10.1093/joclec/nhaa020>

Market Power, Competition and Innovation in digital markets: A survey.
with M Polo,
Information Economics and Policy, Published online first February 2020

ANVUR: Fascia A per area 13 (lista 9.11.2020),
WOS: IF 2019 = 1.654; Rank Q2 Economics
<https://doi.org/10.1016/j.infoecopol.2020.100853>

Strategic differentiation by Business models: Free-to-Air and Pay-TV.
with M Polo.
Economic Journal, Volume 130, Issue 625, Pages 50–64. January 2020.

ANVUR: Fascia A per area 13 (lista 9.11.2020)
WOS IF 2019: 2.764; Rank Q1 in Economics
<https://doi.org/10.1093/ej/uez037>

Incumbency advantage and its value;
with J Cremér and G Biglaiser,
Journal of Economics & Management Strategy, 2019, Volume 28 (1): 41–48.

ANVUR: Fascia A per area 13 (lista 9.11.2020),
WOS: IF 2019 = 1.432; Rank Q2 Economics
<https://doi.org/10.1111/jems.12307>

Algorithmic Pricing: what implications for competition policy;
with Calzolari, Denicolò, Pastorello, 2019.
Review of Industrial Organization, Volume 55, Issue 1, 2019.

Web of Science: IF 2019 = 0.505; Rank Q4 in ECONOMICS
<https://doi.org/10.1007/s11151-019-09689-3>

The Impact of Consumer Multi-Homing on Advertising Markets and Media Competition,
with Susan Athey and Joshua Gans,
Management Science, 64(4), pp. 1574–1590, April 2018

Media Coverage (link included): [Washington Post](#)
ANVUR: Fascia A per area 13 (lista 9.11.2020)
WOS: IF 2019: 3.931; Rank q1 in Management
<https://doi.org/10.1287/mnsc.2016.2675>

Either or both competition: a "two-sided" theory of advertising with overlapping viewership.
with A. Ambrus and M. Reisinger,
American Economic Journal: Microeconomics. Vol. 8 (3), August 2016.

ANVUR: Fascia A per area 13 (lista 9.11.2020),
Web of Science: IF 2019 = 1.325; Rank Q3 in ECONOMICS;
<https://doi.org/10.1257/mic.20150019>

Pricing Payment Cards,
with Özlem Bedre-Defolie;
American Economic Journal: Microeconomics 5 (3): 206–31. August 2013.

ANVUR: Fascia A per area 13 (lista 9.11.2020),
Web of Science: IF 2019 = 1.325; Rank Q3 in ECONOMICS.
<https://doi.org/10.1257/mic.5.3.206>

Other publications, white papers and work in progress

Biased Recommendations and endogenous product choice
Calvano E, Giacomo Calzolari, Vincenzo Denicolò, Sergio Pastorello
January 2021, *In preparation*

Can we trust the algorithms that recommend products online? A theory of biased advice with no pecuniary incentives and lab evidence.
with Bruno Jullien (Toulouse U),
January 2021, *In preparation*.

Learning about your peers' ability and the dynamics of social interactions
With G Immordino and A Scognamiglio
January 2020, *In preparation*

Algorithmic Collusion: A Real Problem for Competition Policy?
Calvano E, Giacomo Calzolari, Vincenzo Denicolò, Sergio Pastorello (2020).
Competition Policy International, ISSN: 1554-0189

Ex-post Assessment of merger control decisions in digital markets
with E Argentesi, T Duso, P Buccirossi, E Marrazzo, S Nava.
review commissioned by the UK Competition Markets Authority
<https://www.gov.uk/government/publications/assessment-of-merger-control-decisions-in-digital-markets>

Issues in online advertising and competition policy: a two-sided market perspective.
with Bruno Jullien,
2012, *Chapter 7, Recent advances in the analysis of competition policy and regulation*: 179-197.
Elgar publishing. <https://doi.org/10.4337/9781781005699.00016>

A Theory of Community Formation and Social Hierarchy
with Susan Athey (Stanford GSB) and Saumitra Jha (Stanford GSB), summer 2019.
Stanford University Graduate School of Business Research Paper No. 16-41

Management or participation to research groups

- A. Organization, management or coordination of national/international research centers, groups or projects.
- **Head of the Digital Economics Research Network (DERN)**. This is an international research network based at UCLouvain in Belgium. Budget scientific activities 2020-2022: 600.000EUR. From 01-01-2019 - ongoing
 - **Coordinator of the local unit, National PRIN project 2017**. Budget of the unit 256.925 EURO. Starting 6.2.2020 – ending 6.2.2022
 - **Organizer of the CEPR Industrial Organization webinar series (VIOS)**. Centre for Economic Policy research (CEPR), London. Appointed: 1.8.2020 – Ongoing
- B. Participation in national/international research centers, groups or projects.
- Associate Faculty member, **Toulouse School of Economics**, France 2018 – ongoing
 - Research Fellow, **Center for Economic Policy Research (CEPR)** – London UK, 13.12-2019 – ongoing
 - Research Fellow, **Centro Studi per l'Economia e la Finanza**. U. Napoli Federico II. 1.9.2013 - ongoing
 - Fellow, **Centro Studi Luca D'agliano**. Università di Milano. 10.8.2019 – ongoing
 - Fellow, **Innocenzo Gasperini Institute for Economic Research (IGIER)** – Università Bocconi, Milano. 1.9.2009 – 31.8.2013.
 - Participation in the research project "recommender systems: biased advice and its nature" within the **ERC Advanced Grant** "Information services: competition and externalities" (acronym: ISECO). Principal investigator Bruno Jullien (Toulouse School of Economics).

Visiting Positions, Research Fellowships and other faculty appointments

- Associate Faculty member, **Toulouse School of Economics**, France 2018 – ongoing
- Instructor, **Barcelona Graduate School**, Summer Institute 2021
- Visiting Associate Professor, Stanford Institute for Economic Policy Research, **Stanford University** Palo Alto, CA. US. Academic year (2019-2020 – postponed to 2021 due to COVID crisis)
- Visiting Faculty (Einsegnat invité), **Univerisité Paris II Pantheon Assaz**, a.a. 2018-2019 and 2017-2018
- Research Fellow, **Harvard University**, Economics department. MA-US September 2008- August 2009

Editorial activity

- Associate Editor, Journal of Industrial Economics (Classe A ANVUR per area 13, ISBN 0022-1821)

Refereeing

Econometrica, American Economic Review, Journal of Political Economy, Review of Economic Studies, Quarterly Journal of Economics, Management Science, Journal of Economic Theory, Rand Journal of Economics, Journal of Monetary Economics, Economic Journal, Journal of Industrial Economics, International Journal of Industrial Organization, Journal of Mathematical Economics,

Review of Network Economics, B.E. Journal of Economic Analysis and Policy, Journal of Economic Behavior & Organizations, National Science Foundation, Annals of Finance, Information Economics and Policy.

Prizes, awards and grants

- A. **PRIN 2017 Grant.** (Linea B. Prot. 2017TMFPSH, responsabile unità locale) Budget 256.925 EURO. Starting 6.2.2020 – ending 6.2.2022
- B. **Unicredit Givanna Crivelli Fellowship 2009.** (prize of 240.000 EUR dispensed as 60.000 Euros salary per year over 4 years to conduct research in an institution of one's choice within the group perimeter). 1/9/2009
- C. **IEIF Research Grant.** 10.000 EUR to develop the project: "does ability as perceived by others affect productivity." Starting: 1.7.2017.
- D. **MIUR Research Grant** FINANZIAMENTO DELLE ATTIVITÀ BASE DI RICERCA, DI CUI ALL'ART. 1, COMMI 295 E SEGUENTI, DELLA LEGGE 11 DICEMBRE 2016 N.232dal 12-12-2017 al 12-12-2017. 3000 EUR.

Seminar Presentations

1. American Enterprise Institute, Washington DC, 11.12.2020
2. Yale University, webinar, Economics Department – 13.11.2020
3. Collegio Carlo Alberto, seminar, 6.10.2020
4. Stanford University IO² webinar –2.6.2020
5. University of Technology Sydney – Economics dept. – 19/2/2020
6. Aalto University, Department of Economics, Helsinki. 22/11/2019
7. Tel Aviv University, Coller School of Management. Israel. 13/11/19
8. U Cergy Pontoise, THEMA research center, Paris. 3/10/19
9. CEMFI, Madrid. 2/10/2019
10. U Bolzano, Dipartimento Economia. 21/2/2019
11. U Paris II, CRED. Paris. – 12/6/2018
12. Tor Vergata, Dipartimento di Economia, CEIS seminar. 10/11/2017
13. U Firenze, Dip. Economia. 28/1/2017
14. Max Planck Institute, Bonn, Germany. 26/4/2017
15. University of Copenhagen, Department of Economics. 21/11/2016
16. Norwegian School of Economics, Bergen, Norway. 13/6/2016
17. CSEF U. Federico II - Napoli; 1.2013
18. Brown University, Department of Economics - United States; (job talk 2009).
19. HEC Montreal, Department of Economics, Canada. (job talk 2009).
20. University College London – Department of Economics, UK. (job talk 2009).
21. INSEAD – Department of Economics, France. (job talk 2009).
22. CEMFI Madrid – Department of Economics, Spain. (job talk 2009).
23. U Autonoma – Department of Economics, Spain. (job talk 2009).
24. U Maastricht – Department of Economics, Netherlands. (job talk 2009).
25. U Pompeu fabra Barcelona, Department of Economics – Spain. (job talk 2009).
26. London University Royal Hallway – United Kingdom. (job talk 2009).

27. Einaudi Institute for Economics and Finance – Rome. (job talk 2009).
28. LUISS – Department of Economics, Roma. (job talk 2009).
29. Bocconi U – Department of Economics, Milano. (job talk 2009).
30. Bank of Italy – Rome. (job talk 2009).
31. Collegio Carlo Alberto - Torino. (job talk 2009).

Conference Presentations

1. NBER online conference on Economics of Artificial Intelligence. Toronto. 24/9/2020
2. Yale Tobin Center Workshop on digital Markets. Yale University. CT, US. 20/1/2020
3. American Economic Association. Annual Meeting 2020. San Diego, CA, US. 3/1/2020
4. Digital Economics Research Network annual workshop. Brussels. 17/12/2019
5. Conference on Algorithms, National School of Administration (ENA), Paris. 6/11/2019
6. NBER summer institute on IT and Digitization, Boston, MA, US. 18/7/2019
7. EUROPEAN SUMMER SYMPOSIUM IN ECONOMIC THEORY, Study Center Gerzensee, Switzerland. 8/7/2019
8. 17th ZEW Conference on the Economics of Information and Communication Technologies, Mannheim – Germany. 27/6/2019
9. CEPR/JIE School on Applied Industrial Organization, 13/6/2019
10. Workshop on Big Data and IA in Banking, U Paris 2, Paris, 2/6/2020
11. Workshop on Institution Individual Behavior and Economic Outcome. U Sassari. Alghero 6/2019 11.
12. 11TH Paris Conference on Digital Economics, Telecom ParisTech. 5/4/2019
13. First UniBg Economic Theory Symposium, Bergamo. 1/4/2019
14. 12th Digital Economics Conference January, Toulouse School of Economics. France. 10/1/2019 14. 2nd Workshop on Advances in Industrial Organization, U Bergamo. 26/10/2018
15. NBER conference on Economics of Artificial Intelligence. Toronto. 13/9/2018
16. Conference Celebrating 25 Years of the EU Single Market, Cambridge University, Judge Business School. 20/4/2018
17. 10th bi-annual Postal Economics Conference on “E-commerce, Digital Economy and Delivery Services” – Toulouse, France. 29/3/2018
18. Workshop IBEO - Institution Individual Behavior and Economic Outcome. Alghero 6/2017
19. IDEI-TSE-IASST conference on The Economics of Intellectual Property, Software and the Internet (2012 and 2017 editions)
20. EIEF-UNIBO-Bocconi industrial organization Workshop (EIEF 2013 edition, Bocconi 2016 Edition)
21. Media Conference, 2016 edition (U. Zurich, October 2016), 2012 edition (City University of New York - Hunter College) 2009 edition - U Siena (2009)
22. Lear Conference 2016 (Rome, Villa Farnesina, summer 2015)
23. Jornadas de Economia Industrial (Alicante, September 2015 - invited session),
24. Multi Sided Platform Workshop (Singapore University - 2013 edition)
25. ZEW ICT workshop (Mannheim - 2012 edition).
26. CISEI conference (University of Naples - 2012 edition)
27. Intertic Conference on Innovation (U. of Venice 2011 edition)

28. 3es et 4es Journées d'économie de la culture (paris 2010)

29. The economics of payments (Federal Reserve New York - IV edition 2010)

Teaching / Incarichi di insegnamento

A. Courses

Bachelor

- Microeconomics II (in Italian - 48 hours, Secs P01), instructor, Bocconi University, a.a. 2009-2010, Corso di Laurea triennale in Discipline Economiche e Sociali (CLES) Approx. 100 students. **Years 2009, 2010, 2011.**
- Industrial Organization, (in English, 7 hours, Secs P01), guest lecturer, Università degli studi di Trieste, **Years: 2010, 2011, 2012.**
- Microeconomics (in Italian, 50 hours, 10 CFU, Secs P01), instructor, Undergraduate degree in Scienze Internazionali e Diplomatiche, Approx. 120 students. **Years 2020 and 2021** (upcoming). 10CFU.
- Industrial Organization (in Italian, 60 hours, 8 CFU, Secs P01), Instructor, undergraduate degree in Economics, Markets and Institutions, Università di Bologna, Approx. 200 students. **Fall 2020.**

Master

- Competition Policy – (in Italian 24 hours, Secs P01), instructor, Laurea Magistrale Discipline Economiche e Sociali - Università Bocconi – Approx. 50 Students., **2013.**
- Microeconomics (in English, 40 hours, Secs P01), instructor, laurea Magistrale in Economia e Finanza (LMEF), Università Federico II, Napoli. Approx. 40 students. **Years: 2014, 2015, 2016**
- Teoria dei giochi (in Italian - 30 hours, 6CFU, Secs P01), instructor, Corso di laurea specialistica in Economia e Management. Approx. 50 Students. **Years: 2017, 2018, 2019, 2020.** 6CFU
- Economia e politica della concorrenza (in italiano –15h, 6CFU, Secs P01), instructor, Corso di laurea specialistica in Economia e Management. Approx. 50 Students. **Years: 2017, 2018, 2019, 2020**
- Industrial Organization, Theory and applications (In English – 15h, 6CFU, Secs P01), Instructor, Laurea magistrale in Economics, Università di Bologna. **Years 2019, 2020**

Ph.D.

- Advanced Topics in Industrial Organization and Information Economics (in English, 15h, Secs P01), instructor, Ph.D. in Economics, Università di Bologna, Spring **2017.**

Graduate Institutes

- Economics of Artificial Intelligence (50 students, 10 hours) – instructor, Barcelona Graduate School of Economics, Summer school. July 2021.

B. Teaching Assistance / Tutoraggi

- TA for Economics of Corporate Governance (Prof. Mike Burkart), undergraduate degree in Finance, Stockholm School of Economics, Spring 2006.
- TA for Microeconomics II, Ph.D. graduate sequence (Prof. Patrick Rey), Université de Toulouse 1, Fall 2007.

C. Supervision / Mentorship

Post-Doctoral fellows

- Maximilian Shafer (2020-2021)

Ph.D. students

- Vito Stefano Bramante (expected – 2024), In English.
- Francesco Clavora Braulin, completed in 2020, In English.

Master students

- Luca Roncoroni (2020, MA in Economics and Management, main advisor)
- Riccardo Pesci (2020, MA in Economics, main advisor)
- Stefano Benni (2020, MA in Economic and Management, main advisor)
- Stefano Usai (2020, MA in Economics & Management, main advisor)
- Elisabetta Bitelli (2019, MA in Economics & Management, main advisor)
- Luca Bennati (2019, MA in Economics, main advisor)
- Andrea Perciaccante, (2018, MA in Economics & Management, main advisor)

Bachelor students

- Aina Turillazzi Fornes (2020, CL Business and Economics (CLABE))

Other experiences and competences

A. Institutional activities

- Coordinator of the Senior Job Market a.y. 2020-2021
- Member of the working group for the VQR (research assessment exercise). 1.7.2020 – ongoing
- Job market placement officer, a.y. 2020-2021.
- Delegato al Consiglio del Centro Interdipartimentale “Alma Mater Research Institute for Human Centered Artificial Intelligence.” 2020 – ongoing.
- Alma Orienta. Presenting CLAMEM degree to prospective students. 2020.
- Commissioner, entry test (test d’ingresso TOLC). 2020.
- Head of the selection committee for a post-doc position (presidente di commissione di selezione per assegni di ricerca), Department of Economics, U. of Bologna, 2020;
- Commissione attribuzione incarichi di tutorato (sede di Forlì). A.a. 2019-2020.
- Co-organizer of the department’s weekly external research seminars, Department of Economics, U. of Bologna, Years: 2019-2020, 2018-2019
- Member of the selection committee for two post-doc positions (commissione di selezione per assegni di ricerca), Department of Economics, U. of Bologna, 2019;

- Promotion of the Department's BA courses among high-school students (lezione alle superiori), Department of Economics, U. of Bologna. February 2019.
- Member of the Job market Committee 2019, U Napoli Federico II (candidate screening, Interviews at the EEA Winter Meetings (Dec. 2018) and flyouts).
- Member of the Ph.D. selection committee (commissione di selezione dei dottorandi, 34 ciclo), Department of Economics, U. of Bologna, 2018.
- Elected Member of the Department's Executive Board (Giunta), Department of Economics, U. of Bologna, 2018.
- Review of Economic studies Tour 2017 working group (presentazione proposta al comitato editoriale della rivista e organizzazione convegno)
- Organizer of the Job Market talks, Years: 2017, 2018.

B. Organization of scientific meetings

- Organizer UniBO-IGIER-EIEF Industrial Organization Workshop, Milan, December 2019.
- Organizer, 4th Economics of Platforms Workshop, University of Bologna May 2019
- Organizer UniBO-IGIER-EIEF Industrial Organization Workshop, Bologna, December 2018.
- Organizer, 3rd Economics of Platforms Workshop, EIEF, Rome. May 2018
- Organizer, LEAR conference 2015 on the Economics of Competition Law, Villa Farnesina Rome. (Key speakers: S Athey, H Varian, P McAfee, T Valletti, J Levin, J Gans, A Hortacsu)
- Organizer 9th IBEO workshop on institutions, Individual Behavior and Economic Outcomes, 19-22 June 2018. Keynote: Hal Varian.
- Organizer of the Review of Economic Studies Tour / May Meetings, edition 2017 (U. Bologna)
- Organizer of the Review of Economic Studies Tour / May Meetings, edition 2015 (U. Napoli Federico II)
- Organizer of the Media Conference (2014 Edition. U. of Napoli Federico II 2014. Keynote: Mark Armstrong

C. Personal skills and competences

- Computer Skills: *Windows, Mac OS; Microsoft Office and OpenOffice packages, LaTeX and Scientific Workplace; Matlab, Octave, Wolfram Mathematica, Stata*
- Languages: Italian (mother tongue), English (proficient), French (good).

SELF-DECLARATION PURSUANT TO ARTICLES 46 AND 47 OF PRESIDENTIAL DECREE 445/2000

I, the undersigned, Emilio Calvano,
born on 12. 08 .1980 in COSENZA (CS),
resident in FERRARA (FE), Via del Pavone 1a
and with address in FERRARA (FE), Via del Pavone 1a
identified by means of IDENTITY CARD no. AV8355127 issued by COMUNE DI MILANO on 25.2.2015 ,
telephone number +393385680813

aware of the penalties applicable in the event of making a false declaration to a public official (art.
495 of the Italian Criminal Code)

DECLARE UNDER MY OWN PERSONAL RESPONSIBILITY:

- that the information and declarations contained in this curriculum vitae are true;
- that I am in possession of all the qualifications indicated in this curriculum vitae;
- that all content relating to qualifications, publications and activities performed as indicated in this curriculum vitae are true;
- that the copies of the publications submitted for analytical assessment are true copies of the original.
- That I have a good knowledge of Italian

Rome 21/1/2021

Signature