

# MICHELE LOI

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<https://www.researchgate.net/profile/Michele-Loi-2>

<https://scholar.google.com/citations?user=gpySUmsAAAAJ&hl=en>

## ACADEMIC QUALIFICATIONS

### **1997-2003:**

*Degree:* “Laurea quadriennale” (MA) in Philosophy

*Grade:* 110/110 with laude

*Institution:* Facoltà di Filosofia, Università di Cagliari, Italy

*Supervisors:* Vanna Gessa-Kurotschka

### **2004-2007:**

*Degree:* Ph.D. in Political Theory/teoria politica

*Completion Date:* July 11, 2007

*Institution:* Libera Università degli Studi Sociali Guido Carli, Rome, Italy

*Dissertation Title:* “Well-being: an Investigation into its Natural Boundaries”

*Supervisors:* Sebastiano Maffettone and Gianfranco Pellegrino (LUISS University)

### **5.04.2018:**

*Achievement:* Abilitazione scientifica nazionale per la II fascia (national habilitation associate professor)

*Details:* art. 16 della Legge 240/2010, per il settore concorsuale\_11 C3.  
(Sector of moral philosophy)

## RESEARCH POSITIONS AND PROJECTS

### **September 2023 – Now:**

*Position:* Senior Scientific Manager, Algorithmwatch.org

*Location:* Milano, Berlin

*Project:* “Auditing Algorithms for Systemic Risks”

### **September 2021 – August 2023:**

*Position:* Marie-Sklodowska-Curie Individual Fellow

*Location:* Department of Mathematics, Politecnico di Milano

*Projects:*

“Fair Predictions in Health”

Principal Investigator in “Socially acceptable AI and fairness trade-offs in predictive analytics”

### **January 2021 – March 2023:**

*Role:* Principal Investigator

*Project:* “Fair algorithms”

*Location:* University of Zurich, Institute of Biomedical Ethics and the History of Medicine

### **From June 2020:**

*Role:* Principal Investigator

*Project:* “Socially acceptable AI and fairness trade-offs in predictive analytics”

*Location:* University of Zurich, Institute of Biomedical Ethics and the History of Medicine

### **July 2018 – August 2021:**

*Position:* Senior Researcher

*Location:* Digital Society Initiative, Institute of Biomedical Ethics and the History of Medicine, University of Zurich

### **Mar 2017 – August 2020:**

*Position:* Postdoctoral researcher

*Location:* University of Zurich

### **Jan 2016 – Dec 2016:**

*Position:* Post-doctoral research fellow in biomedical information ethics

*Location:* ETH Zurich

### **Oct 2015 – Jun 2016:**

*Role:* Consultant

*Projects:*

Harmonizing expert guidance on “Managing Ethical Issues in Infectious Disease Outbreaks”

“Ethics of Public Health Surveillance”

*Location:* World Health Organisation, Global Health Ethics Unit, Geneva

### **Apr 2013 – Sep 2015:**

*Position:* Post-Doc

*Location:* Universidade do Minho, Institute of Art and Humanities, Braga

**Jul 2012 – Mar 2013:**

*Position:* Post-Doc

*Location:* San Raffaele Biomedical Science Park, Milan

**Sep 2008 – Feb 2012:**

*Position:* Post-Doc

*Location:* Università Vita-Salute San Raffaele, Milan

## PROFESSIONAL HIGHLIGHTS AND RECOGNITION

### INTERNATIONAL SPEAKER

#### 2023

- Epistemic Rights in AI Policy: Invited to present at the Eindhoven University of Technology, 8-10th November.
- Workshop on Algorithmic Decision-making and Discrimination: Invited to present at Aarhus University in Denmark, 23-24 November.
- Causality for Ethics and Society in München, Germany, 24-25 July:
  - "Algorithmic Unfairness and Group Level Causation." (Single author)
  - "Classification Parity, Causal Equal Protection and Algorithmic Fairness." (With co-authors),
  - "How I Would Have Been Differently Treated. Discrimination Through the Lens of Counterfactual Fairness." (With co-authors)
- European Workshop on Algorithmic Fairness (EWAf '23), June 7-9: Organized and Presented **two** full papers in Winterthur, Switzerland (international peer review).

#### 2022

- ACM FAccT 2022 in Seoul, Korea, 21-24 July:
  - with Christoph Heitz "Is Calibration a Fairness Requirement? An Argument from the Point of View of Moral Philosophy and Decision Theory."
  - Collaborated with Andrea Ferrario "How Explainability Contributes to Trust in AI."
  - Alongside Eleonora Viganó, Corinna Hertweck, and Christoph Heitz, "People are not Coins: Morally Distinct Types of Predictions Necessitate Different Fairness Constraints."

#### EARLIER

- Featured as an invited panelist on various topics, from "Cybersecurity, AI, and Ethics" at the Leuven AI Law & Ethics Conference (LAILEC) in 2021 to discussions on the ethics of nudging privacy at the IFIP Summer School on Privacy and Identity Management in 2019.
- Gave keynote speeches, such as the one titled "From the Ethics of Data to the Politics of Algorithms" at the Symposium: Ethical Issues in Big Data Research in Basel in 2018.
- Invited lecturer to summer schools (e.g. IFIP Summer School on Privacy and Identity Management) and winter schools (e.g., Winter

School on Inequality and Social Welfare Theory, Alba di Canazei, TN, Italy.)

## **PUBLICATIONS**

Dr. Loi's extensive body of work in the domain of ethics, technology, and data science establishes him as a pioneering thinker in these interdisciplinary fields. His research delves deep into the intersections of philosophy, economics, and technology, providing valuable insights into the ethical implications of digital advancements.

### **ARTICLES:**

1. Loi, M., Ferrario, A., & Viganò, E. (2023). How Much Do You Trust Me? A Logico-Mathematical Analysis Of The Concept Of The Intensity Of Trust. *Synthese*, 201(6), 186.
2. Loi, M., Nappo, F., & Viganò, E. (2023). How I Would Have Been Differently Treated. Discrimination Through The Lens Of Counterfactual Fairness. *Res Publica*, 29(2), 185–211.
3. Baumann, J., & Loi, M. (2023). Fairness And Risk: An Ethical Argument For A Group Fairness Definition Insurers Can Use. *Philosophy & Technology*, 36(3), 45.
4. Castro, C., & Loi, M. (2023). The Fair Chances In Algorithmic Fairness: A Response To Holm. *Res Publica*, 29(2), 331–337.
5. Loi, M., Dehaye, P.-O., & Hafen, E. (2023). Towards Rawlsian 'Property-Owning Democracy' Through Personal Data Platform Cooperatives. *Critical Review Of International Social And Political Philosophy*, 26(6), 769–787.
6. Loi, M., Hauser, C., & Christen, M. (2022). Highway To (Digital) Surveillance: When Are Clients Coerced To Share Their Data With Insurers? *Journal Of Business Ethics*, 175(1), 7–19.
7. Ferrario, A., & Loi, M. (2022). The Robustness Of Counterfactual Explanations Over Time. *IEEE Access*, 10, 82736–82750.
8. Loi, M. (2021). How To Fairly Incentivise Digital Contact Tracing. *Journal Of Medical Ethics*, 47(12), E76–E76.
9. Loi, M., Ferrario, A., & Viganò, E. (2021). Transparency As Design Publicity: Explaining And Justifying Inscrutable Algorithms. *Ethics And Information Technology*, 23(3), 253–263.
10. Loi, M., & Christen, M. (2021). Choosing How To Discriminate: Navigating Ethical Trade-Offs In Fair Algorithmic Design For The Insurance Sector. *Philosophy & Technology*, 34(4), 967–992.
11. Ferrario, A., Loi, M., & Viganò, E. (2020a). In AI We Trust Incrementally: A Multi-Layer Model Of Trust To Analyze Human-Artificial Intelligence Interactions. *Philosophy & Technology*, 33(3), 523–539.

12. Ferrario, A., Loi, M., & Viganò, E. (2020b). Trust Does Not Need To Be Human: It Is Possible To Trust Medical AI. *Journal Of Medical Ethics*.
13. Loi, M. (2019). The Digital Phenotype: A Philosophical And Ethical Exploration. *Philosophy & Technology*, 32(1), 155–171
14. Loi, M., Christen, M., Kleine, N., & Weber, K. (2019). Cybersecurity In Health – Disentangling Value Tensions. *Journal Of Information, Communication And Ethics In Society*, 17(2), 229–245.
15. Loi, M. (2018). Nobody's DNA But Mine. *Journal Of Medical Ethics*, 44(11), 790–790.
16. Weber, K., Loi, M., Christen, M., & Kleine, N. (2018). Digital Medicine, Cybersecurity And Ethics: An Uneasy Relationship. *American Journal Of Bioethics*, 18(9), 52–53.
17. Loi, M., & Dehaye, P.-O. (2017). If Data Is The New Oil, When Is The Extraction Of Value From Data Unjust. *Philosophy And Public Issues*, 7(2), 138–178.
18. Riso, B., Tupasela, A., Vears, D. F., Felzmann, H., Cockbain, J., Loi, M., Kongsholm, N. C. H., Zullo, S., & Rakic, V. (2017). Ethical Sharing Of Health Data In Online Platforms – Which Values Should Be Considered? *Life Sciences, Society And Policy*, 13(1), 12.
19. Feeney, O., Borry, P., Felzmann, H., Galvagni, L., Haukkala, A., Loi, M., Nordal, S., Rakic, V., Riso, B., Sterckx, S., & Vears, D. (2017). Genuine Participation In Participant-Centred Research Initiatives: The Rhetoric And The Potential Reality. *Journal Of Community Genetics*, 9, 133–142
20. Loi, M. (2016a). Direct To Consumer Genetic Testing And The Libertarian Right To Test. *Journal Of Medical Ethics*, 42(9), 574–577.
21. Kollar, E., & Loi, M. (2015). Prenatal Equality Of Opportunity. *Journal Of Applied Philosophy*, 32(1), 35–49.
22. Loi, M. (2015). Technological Unemployment And Human Disenhancement. *Ethics And Information Technology*, 17(65), 1–10.
23. Del Savio, L., Loi, M., & Stupka, E. (2015). Epigenetics And Future Generations. *Bioethics*, 29(8), 580–587.
24. Loi, M. (2014a). Food Labels, Genetic Information, And The Right Not To Know. *Kennedy Institute Of Ethics Journal*, 24(4), 323–344.
25. Loi, M. (2014b). Why Postnatal Abortion Throws The Baby Out With The Bath Water. *Monash Bioethics Review*, 31(2), 60–82.
26. Loi, M., Del Savio, L., & Stupka, E. (2013). Social Epigenetics And Equality Of Opportunity. *Public Health Ethics*, 6(2), 142–153.

27. Loi, M. (2013a). Normal Functioning And Public Reason. *Cambridge Quarterly Of Healthcare Ethics*, 22(02), 136–145.
28. Loi, M. (2013b). You Cannot Have Your Normal Functioning Cake And Eat It Too. *Journal Of Medical Ethics*, 39(12), 748–751.
29. Loi, M. (2012a). Germ-Line Enhancements And Rough Equality. *Ethical Perspectives*, 19(1), 55–82.
30. Loi, M. (2012b). Introduction: Genetics And Justice. *Ethical Perspectives*, 19(1), 1–10.
31. Loi, M. (2012c). On The Very Idea Of Genetic Justice. *Cambridge Quarterly Of Healthcare Ethics*, 21(01), 64–77.

### CONFERENCE PROCEEDINGS:

1. Ferrario, A., & Loi, M. (2022). How Explainability Contributes To Trust In AI. *2022 ACM Conference On Fairness, Accountability, And Transparency*, 1457–1466.
2. Viganò, E., Hertweck, C., Heitz, C., & Loi, M. (2022). People Are Not Coins: Morally Distinct Types Of Predictions Necessitate Different Fairness Constraints. *2022 ACM Conference On Fairness, Accountability, And Transparency*, 2293–2301.
3. Loi, M., & Heitz, C. (2022). Is Calibration A Fairness Requirement?: An Argument From The Point Of View Of Moral Philosophy And Decision Theory. *2022 ACM Conference On Fairness, Accountability, And Transparency*, 2026–2034.
4. Loi, M., & Spielkamp, M. (2021). Towards Accountability In The Use Of Artificial Intelligence For Public Administrations. *Proceedings Of The 2021 AAAI/ACM Conference On AI, Ethics, And Society*, 757–766.
5. Hertweck, C., Heitz, C., & Loi, M. (2021). On The Moral Justification Of Statistical Parity. *Proceedings Of The 2021 ACM Conference On Fairness, Accountability, And Transparency*, 747–757.
6. Loi, M., Heitz, C., & Christen, M. (2020). A Comparative Assessment And Synthesis Of Twenty Ethics Codes On AI And Big Data. *2020 7th Swiss Conference On Data Science (SDS)*, 41–46.
7. Heidari, H., Loi, M., Gummadi, K. P., & Krause, A. (2019). A Moral Framework For Understanding Fair ML Through Economic Models Of Equality Of Opportunity. *Proceedings Of The Conference On Fairness, Accountability, And Transparency*, 181–190.
8. Loi, M., Heitz, C., Ferrario, A., Schmid, A., & Christen, M. (2019). Towards An Ethical Code For Data-Based Business. *2019 6th Swiss Conference On Data Science (SDS)*, 6–12.

9. Loi, M., Ferrario, A., & Viganò, E. (2019, May 28). Transparency As Design Publicity: Explaining And Justifying Inscrutable Algorithms. CEPE (Computer Ethics—Philosophical Enquiry).

#### **BOOKS:**

1. Christen, M., Gordijn, B., & Loi, M. (Eds.). (2020). The Ethics Of Cybersecurity. Springer International Publishing.
2. Loi, M., & Mordacci, R. (2012). Etica E Genetica. Storia, Concetti, Pratiche. Mondadori Bruno.
3. Loi, M. (2011). Giustizia E Genetica. Bruno Mondadori.

#### **BOOK CHAPTERS:**

1. Loi, M. (2020). What Contribution Can Philosophy Provide To Studies Of Digital Well-Being. In C. Burr & L. Floridi (Eds.), Ethics Of Digital Well-Being: A Multidisciplinary Approach (Pp. 101–118). Springer International Publishing.
2. Viganò, E., Loi, M., & Yaghmaei, E. (2019). Cybersecurity Of Critical Infrastructure. In M. Christen, G. Bert, & M. Loi (Eds.), The Ethics Of Cybersecurity. Springer International Publishing
3. Jaquet-Chiffelle, D.-O., & Loi, M. (2019). Ethical And Unethical Hacking. In M. Christen, B. Gordijn, & M. Loi (Eds.), The Ethics Of Cybersecurity. Springer International Publishing
4. Loi, M., & Christen, M. (2019). Ethical Frameworks For Cybersecurity. In M. Christen, B. Gordijn, & M. Loi (Eds.), The Ethics Of Cybersecurity. Springer International Publishing
5. Loi, M. (2016). Food Ethics In An Intergenerational Perspective: Vol. The Routledge Guide To Food Ethics (P. N.a.). Routledge & Kegan Paul.
6. Loi, M., & Nobile, M. (2016). The Moral And Legal Relevance Of DOHaD Effects For Pregnant Mothers. In C. S. Rosenfeld (Ed.), The Epigenome And Developmental Origins Of Health And Disease (Pp. 463–480). Elsevier Science Ltd.
7. Loi, M. (2011). Singolarità Nanotecnologiche E Problemi Di Giustizia Distributiva. In *Forme Di Responsabilità, Regolazione E Nanotecnologie* (Pp. 551–573). Il Mulino.

#### **BUSINESS REPORTS AND WORKING PAPERS:**

1. Loi, M. (2023). How To Define Platforms' Systemic Risks To Democracy. Algorithmwatch.
2. Hertweck, C., Baumann, J., Loi, M., Viganò, E., & Heitz, C. (2022). A Justice-Based Framework For The Analysis Of Algorithmic Fairness-Utility Trade-Offs (ArXiv:2206.02891). ArXiv.



3. Baumann, J., Hertweck, C., Loi, M., & Heitz, C. (2022). Distributive Justice As The Foundational Premise Of Fair ML: Unification, Extension, And Interpretation Of Group Fairness Metrics (ArXiv:2206.02897). ArXiv.
4. Loi, M. (2021). Automated Decision-Making Systems In The Public Sector – An Impact Assessment Tool For Public Authorities. Algorithmwatch.
5. Loi, M. (2020). People Analytics Must Benefit The People. An Ethical Analysis Of Data-Driven Algorithmic Systems In Human Resources Management. Algorithmwatch.
6. Loi, M., Viganò, E., & Van Der Plas, L. (2020, September 11). The Societal And Ethical Relevance Of Computational Creativity.
7. Loi, M., Christen, M., Heitz, C., & Kleiber, T. (2020). Code Of Ethics For Data-Based Value Creation—Basics. Data Innovation Alliance.
8. Yaghmaei, E., Van De Poel, I., Christen, M., Gordijn, B., Kleine, N., Loi, M., Morgan, G., & Weber, K. (2017). Canvas White Paper 1 – Cybersecurity And Ethics (SSRN Scholarly Paper ID 3091909). Social Science Research Network.
9. World Health Organization (2016), Guidance For Managing Ethical Issues In Infectious Disease Outbreaks.

## LEADERSHIP

## SCIENTIFIC PROJECTS

### **SOCIALLY ACCEPTABLE AND FAIR ALGORITHMS**

JUNE 2020 – MAY 2024

**Role:** Principal Investigator (head of unit) and the main author of the grant proposal.

**Funding:** CHF 619'808

**Institution:** Initially University of Zurich, Institute of Biomedical Ethics and the History of Medicine (moved to Politecnico di Milano, grant retained in Zurich)

**Funder:** Swiss National Science Foundation

**Description:** Development of a methodology focused on fairness for machine-learning applications. The project integrates philosophical, empirical, and developmental research. This ambitious interdisciplinary project ropes in three units from three distinct universities. Although prof. Christoph Heitz is the formal coordinator, Dr. Loi shares an equal status in terms of decision-making. He is one of the two co-Principal Investigators, primarily overseeing the ethical and philosophical components of the initiative.

### **FAIR ALGORITHMS**

JANUARY 2021 – MARCH 2023

**Role:** Principal Investigator, co-applicant, and co-writer of the proposal.

**Funding:** CHF 544'467.96 plus an additional CHF 561'658.00 from industry matching funds.

**Institution:** University of Zurich, Institute of Biomedical Ethics and the History of Medicine

**Funder:** Swiss Innovation Agency

**Description:** Engaging two units from three different universities along with several industry partners, this project seeks to control and mitigate algorithmic biases in data-driven decision-making. While prof. Christoph Heitz leads the coordination, Dr. Loi, as co-Principal Investigator, predominantly manages the ethical and philosophical aspects of the undertaking.

### **ONE STOP SHOP ETHICS REVIEW**

JUNE 2018 – AUGUST 2020

**Role:** Project Manager

**Institution:** University of Zurich, Digital Society Initiative

**Funder:** University of Zurich

### **AUDITING OF AUTOMATED DECISION-MAKING SYSTEMS**

#### OCTOBER 2020 – DECEMBER 2020

**Role:** Researcher, lead for scientific methodology development

**Institution:** University of Zurich, Digital Society Initiative

**Funder:** Algorithmwatch

#### ELSI TASK FORCE

MARCH 2017 – MAY 2020

**Role:** Project Manager

**Institution:** University of Zurich, Digital Society Initiative

**Funder:** Swiss National Science Foundation

#### WRITING A CODE OF ETHICS FOR DATA-BASED VALUE CREATION

JANUARY 2019 – OCTOBER 2020

**Role:** Lead editor of the code

**Institution:** University of Zurich, Digital Society Initiative

**Funder:** Swiss Innovation Agency

#### DATA-DRIVEN APPROACHES IN HR MANAGEMENT REPORT

SEPTEMBER 2019 – DECEMBER 2020

**Role:** Lead methodology development and main author of the report

**Institution:** University of Zurich, Digital Society Initiative

**Funder:** Algorithmwatch

#### CONSORTIUM FOR VALUE-DRIVEN CYBERSECURITY

MARCH 2017 – OCTOBER 2019

**Role:** Scientific Assistant to the Project Coordinator (Dr. Markus Christen) and a contributor to the project's early proposal drafts.

**Funding:** €1,000,000.00 from the European Union.

**Institution:** University of Zurich, Digital Society Initiative

**Funder:** European Union, H2020 programme

#### MANAGING ETHICAL ISSUES IN INFECTIOUS DISEASE OUTBREAKS

OCTOBER 2015 – JUNE 2016

**Role:** Process coordinator

**Institution:** World Health Organisation, Global Health Ethics Unit

#### COST ACTION "CHIP ME"

APRIL 2013 – SEPTEMBER 2015

**Role:** Vice-Chair, Grant Holder (for the first half of the project, see <http://chipme.eu/eng/about-us.aspx>)

**Institution:** University of Minho

**Description:** From September 11, 2013, to October 1, 2015, Dr. Loi was deeply involved in the CHIP ME COST Action, which focused on public-private partnerships in genetic testing and genomics biobanking. The funding for this significant endeavor was provided by 36 countries. Dr. Loi penned the research project that secured the funds and held the position of Vice-Chair from November 2013 to September 2015. The University of Minho acknowledged his commitment by designating him as the grant holder.

#### **WORKSHOPS AND CONFERENCES:**

**General Co-Chair:** Dr. Loi took on the leadership role for the 1st and 2nd European Workshop on Algorithmic Fairness (EWAF'23). These sessions witnessed participation from over 100 international attendees. Details about the event can be found at [EWAF'23](#). Michele Loi continues to be part of the board of the European Association for Algorithmic Fairness, overseeing the next editions of EWAF.

#### **EXPERT ADVISORY ROLES:**

Dr. Loi's expertise has been sought after by several renowned national and international institutions. His contributions to these institutions include:

- OECD: Contributed insights on the "Ethics of AI in the Workplace."
- Centre for Data Ethics and Innovation (CDEI): Played a pivotal role in the "Data Reform Workshop."
- Digital Economy Secretariat
- European Commission Joint Research Centre: Participated in a "Peer-learning workshop on the use and impact of AI in the public sector."
- European Medical Agency: Assisted in the "Data Anonymisation Workshop."

#### **EDITORIAL AND REVIEWER ROLES:**

**Scientific Committee Member:** Dr. Loi was part of the scientific committee for FAccT '23 (ACM)

**Ad Hoc Reviewer:** Dr. Loi has rendered his reviewing services for several journals and publications, including but not limited to:

- Synthese
- Philosophical Studies
- Ethics and Information Technology
- Philosophy and Technology
- FAccT '23

- EWAF '23
- Journal of Medical Ethics
- European Journal of Human Genetics
- Oxford University Press
- American Philosophical Quarterly
- Res Publica

**MENTORSHIP:**

In his academic journey, Dr. Loi has consistently emphasized the importance of mentorship, fostering young talent and guiding them through their research endeavors. While the number might not reflect quantity, the depth of his mentorship truly exemplifies the quality and focus he brings to his mentees.

**Undergraduate Mentorship:** Dr. Loi has taken under his wing a budding philosopher at the BA level, nurturing their analytical and critical thinking capabilities. This has given the student a robust foundation in philosophy and set them on the path to further academic pursuits.

**Doctoral Supervision:** Venturing into the field of informatics, Dr. Loi co-supervised two Ph.D. student candidates. His interdisciplinary approach has been instrumental in bridging the gap between informatics and philosophical concerns, providing the students with a unique and enriched research perspective.

**Post-Doctoral Guidance:** Dr. Eleonora Viganò, a post-doctoral researcher in philosophy, has had the privilege of receiving guidance under Dr. Loi's mentorship. With his support, Dr. Viganò has been able to advance her research and deepen her philosophical inquiries.

**Interdisciplinary Transition:** Highlighting his versatile mentorship approach, Dr. Loi played a pivotal role in steering Dr. Andrea Ferrario's research transition. As a mathematician, Dr. Ferrario embarked on an academic shift into philosophical AI ethics, a transition facilitated and enriched by Dr. Loi's insights and expertise.

## AWARDS AND HONORS

### PAPERS AND CONTRIBUTIONS:

**Best Student Paper:** As the supervising co-author and the sole philosopher among the authors, Dr. Loi's input was instrumental in the recognition of the paper titled "On the Moral Justification of Statistical Parity", presented at the 2021 ACM Conference on Fairness, Accountability, and Transparency.

**Best ELSI Contribution:** Highlighting his role as the first co-author and the exclusive philosopher, the paper "A Blindspot of AI Ethics: Anti-Fragility in Statistical Prediction" co-written with Lonneke Van der Plas, was honored at the Swiss Data Science Conference 2020.

#### Citation Profile Summary:

Michele Loi has consistently demonstrated a robust academic impact, as reflected in his increasing citation counts and indexes. As of 2023, his work has amassed a total of 1,219 citations. This cumulative citation count underscores his significant contributions to his field and the lasting impact of his research.

The substantial growth in annual citations in recent years further underlines his rising prominence. Since 2016, his yearly citations have shown a consistent upward trajectory, moving from 32 citations in 2016 to an impressive 342 in 2022. Even though 2023 is not yet complete, he has already garnered 308 citations, suggesting another strong year.

Furthermore, his H-index stands at 20, which indicates that at least 20 of his publications have each been cited at least 20 times. This metric showcases not just the volume of his scholarly contributions but also their quality and influence. Complementing this is his i10 index of 31, suggesting that at least 31 of his works have been cited 10 times or more.

Some of his highest cited works include:

- "A moral framework for understanding fair ML through economic models of equality of opportunity", co-authored with Hoda Heidari, KP Gummadi, and A Krause. Although Michele Loi is the second author, he stands out as the sole philosopher contributing to the piece. The paper has received 134 citations and is seminal in the debate on algorithmic fairness.
- "Social epigenetics and equality of opportunity", written in collaboration with Matteo del Savio and Elia Stupka. Michele Loi is the first author of this work. It has accumulated 133 citations and has become a cornerstone in the interdisciplinary debate in sociology, ethics, and science and technology studies on social epigenetics.

- "In AI we trust incrementally: A multi-layer model of trust to analyze human-artificial intelligence interactions". Co-authored with Andrea Ferrario (first author) and Eleonora Viganò, this paper has garnered 114 citations. It stands as one of the highest-impact publications on trust in AI, and notably integrates technical knowledge of AI from Andrea Ferrario, marking his inaugural contribution to philosophy.

#### **INTERNATIONAL COMPETITIVE FELLOWSHIPS:**

- **Marie Curie Individual Fellowship:** Awarded the prestigious H2020 MSCA IF 2019 with an exceptional score of 100/100. Hosted by the renowned Politecnico di Milano.
- **Harvard/Brocher Summer School:** Granted a partial scholarship amounting to 1500 CHF.
- **Brocher Summer Academy in Global Population Health:** Recognized for his contribution and chosen to attend the summer academy in June 2014.
- **Hoover Fellowship:** Awarded 1500 € for his outstanding work, hosted by Université Catholique de Louvain, Louvain-la-Neuve, Belgium in March 2012.
- **Brocher Fellowship:** An esteemed fellowship valued at approximately 6000 CHF at Fondation Brocher, Hermance, Switzerland from April to June 2010. Additionally, he received a scholarship from the Scuola di Alta Formazione Filosofica, Centro Studi Filosofico Religiosi Luigi Pareyson, Torino.
- **Summer School in Analytic Philosophy:** Recognized early in his career as a BA student, Dr. Loi was invited by Prof. Marco Santambrogio to attend the summer school in Bertinoro, Italy in 1999.

## SKILLS AND EXPERTISE

**Interdisciplinary Agility:** Proficient in weaving together threads from diverse academic disciplines to create a coherent and insightful tapestry of understanding.

**Adaptive Learning:** Displays an ability to quickly assimilate new knowledge from various sources, crucial for thriving at the intersection of multiple disciplines.

**Strategic Vision:** Demonstrates the capacity to see the larger picture, positioning individual research endeavors within broader academic and societal contexts.

**Problem-Solving Acumen:** Approaches challenges with a keen analytical mind, ensuring that problems are not just identified, but also addressed with innovative solutions.

**Resilience & Persistence:** Despite the challenges that come with trailblazing, demonstrates a tenacious spirit, ensuring research objectives are met with unwavering commitment.

**Courageous Innovation:** A fearless advocate for exploring new territories, challenging conventional wisdom, and adopting untested methodologies to address emergent questions.

**Collaborative Leadership:** Recognizes the strength in collective intelligence, fostering collaborative environments where diverse perspectives converge for breakthrough insights.

**Effective Communication:** Translates complex philosophical and interdisciplinary ideas into accessible narratives, making them comprehensible to diverse audiences.

**Ethical Vigilance:** Maintains a strong ethical compass, ensuring that research, especially at the boundaries of technology and philosophy, remains anchored in moral principles.

**Embracing Ambiguity:** Comfortable operating in areas of uncertainty, viewing them as opportunities for pioneering novel ideas and methodologies.

## REFERENCES

Available upon request.