

UNIVERSITÀ DEGLI STUDI DI MILANO

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## **[Michele Loi]**

### **CURRICULUM VITAE**

#### **INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)**

COGNOME	LOI
NOME	MICHELE
DATA DI NASCITA	[ 07, 08, 1078 ]

#### **INSERIRE IL PROPRIO CURRICULUM (non eccedente le 30 pagine)**

- a) possesso del titolo di dottore di ricerca o equipollenti, ovvero, per i settori interessati, del diploma di specializzazione medica o equivalente, conseguito in Italia o all'Estero;

2004- 2007 Ph.D. Political Theory/teoria politica [awarded 11 July 2007]

Libera Università degli Studi Sociali Guido Carli, (Rome, Italy).

Doctoral dissertation: "Well-being: an Investigation into its Natural Boundaries."

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

5.04.2018 Abilitazione scientifica nazionale per la II fascia, ai sensi dell'art. 16 della Legge 240/2010, per il settore concorsuale \_\_11 C3.

- b) eventuale attività didattica a livello universitario in Italia o all'Estero;

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- March 2019, Lecture "Ethical Frameworks for Cybersecurity", as part of the CANVAS MOOC, CANVAS: CSE100 Cyber Security Ethics <https://mooc.canvas-project.eu/courses/course-v1:CANVAS+CSE100+SS2019/course/>

- October 15, 2019 Visiting lecturer of Ethics of Cybersecurity for the BA students of the degree in informatics of Department of Information Security and Communication Technologies, Norwegian University of Science and Technology, Norway.

-August 19-23, 2019 Invited Lecturer, "Nudging cybersecurity in a fair way", IFIP Summer School on Privacy and Identity Management in Brugg/Windisch, Switzerland

- 21 Feb 2019- 9 May 2019 Informatik, Ethik und Gesellschaft (Informatics, Ethics and Society), with Markus Christen and Markus Kneer

- Jan 7-10, 2019 Invited Lecturer, "Algorithmic fairness, discrimination, and equality of opportunity", Winter School on Inequality and Social Welfare Theory, Alba di Canazei, TN, Italy

- 13 March 2018 – 24 April 2018. Interdisciplinary seminar "How does ethics work" for the doctoral students of the Institute of Biomedical Ethics and the History of Medicine, University of Zurich.

- Fall 2012 Bioethics module for the course of Medical Humanities for the International MD Program of Università Vita-Salute San Raffaele, Milano. Part of 9 ECTS course on Medical Humanities (10h frontal lectures ).

- Spring 2011 Bioethics module for the course of Medical Humanities for the International MD Program of Università Vita-Salute San Raffaele, Milano. Part of 9 ECTS course on Medical Humanities.

- Spring 2012 “Filosofia e diritti umani,” [Philosophy and Human Rights], for Università Vita-Salute San Raffaele, Milano.

Before teaching autonomously, I have been teaching assistant and examiner for the course on moral philosophy of Prof. Roberto Mordacci (2008-2011, Università Vita-Salute San Raffaele) and for the course on political philosophy of Prof. Sebastiano Maffettone (2007-2008, LUISS Guido Carli, Rome).

Supervision: BA thesis of Valeria Butti – Human Rights and Work: a defence of labour rights (in Italian), Università Vita-Salute San Raffaele. Graduation date: 27.02.2013. (110/110 cum laude).

Currently, co-supervisor of the PH.D. thesis of Najd Alfawzan, on data sharing on mobile health applications in an intercultural perspective

Moreover, I have experience as oral examiner of the candidates for a scholarship to the United World College of the Adriatic, having worked as interviewer of the candidates for the regional selections, in Lombardy and Sardinia.

c) documentata attività di formazione o di ricerca presso qualificati istituti italiani o stranieri;

31.10.2019 – present	Senior Scientist, Digital Society Initiative, University of Zurich
1.03.2017 – 31.10.2019	Wissenschaftlicher Mitarbeiter. Consortium for Value-Driven Cybersecurity. H2020 CANVAS Digital Society Initiative, University of Zurich
1.03.2017 – 31.01.2019	Post-doctorate. Between Solidarity and Personalization – Dealing with Ethical and Legal Big Data Challenges in the Insurance Industry. Institute of Biomedical Ethics and the History of Medicine. University of Zurich
1.1.2016-31.12.2016.	Wissenschaftlicher Mitarbeiter on The Organizational and Technological Basis for the Fair and Secure Sharing of Personal Health Data for the Benefit of Citizen Science. Department of Biology Institute of Molecular System Biology, ETH Zürich.
1.04.2013-30.09.2015	<i>Post-doctoral fellowship</i> FCT - Fundação para a Ciência e a Tecnologia, on Human enhancement in a non-ideal world. CEHUM, University of Minho, Braga (Portugal).
1.07.2012 - 15.03.2013	Researcher. Bioethics of genetic and epigenetic data. Center for Translational Genomics and Bioinformatics, San Raffaele Scientific Institute, Milan (Italy).
1.10.2011 - 29.02.2012	Researcher, “Recognition, Respect and Motivation. Research on the theoretical and practical aspects of cooperative agency”. Università Vita-Salute San Raffaele Milan (Italy).
1.10.2008 - 30.09.2011	Researcher, “Moral and juridical questions concerning the clinical, biomedical and social employment of human genetics”. Università Vita-Salute San Raffaele Milan (Italy)
1.03.2004 - 11.07.2007	Ph.D. Political Theory/teoria politica [awarded 11 July 2007]

d) documentata attività in campo clinico relativamente ai settori concorsuali nei quali sono richieste tali specifiche competenze;

e) realizzazione di attività progettuale relativamente ai settori concorsuali nei quali è prevista;

Michele Loi has been hired as a researcher in research projects funded by the Italian FIRB Futuro in Ricerca (Moral and juridical questions concerning the clinical, biomedical and social employment of human genetics), PRIN (“Recognition, Respect and Motivation. Research on the theoretical and practical aspects of cooperative agency”). He has obtained the *Post-doctoral fellowship* FCT to work on the project “Human enhancement in a non-ideal world”. See above (point c).

Michele Loi has so far raised research grants (as main co-writer of the grant proposal) of in total CHF ~600,000 (COST Action CHIP ME, FCT Fellowship Portugal).

Michele Loi collaborates with the non-governmental organization AlgorithmWatch and from September 1<sup>st</sup> to December 30<sup>th</sup> he has been carrying out a research project on the use of AI in employment, funded by this NGO, based at the University of Zurich.

f) organizzazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali, o partecipazione agli stessi;

Michele Loi and Elia Stupka have launched the COST Action IS1303 and co-managed it for the first half of the Action's lifecycle (2.5 years), as vice-chair and chair. This Europe-wide network comprised members from 26 different countries with interdisciplinary working groups. Michele Loi gained experience in coordinating a large research projects acting as vice-chair of the Action from Nov 2013 to September 2015.

Michele Loi co-leads the Ethics Working Group of the Swiss Alliance for Data-Intensive Companies and is lead writer of the Ethical Code of Data Ethics co-developed with this industry association.

Michele Loi manages the project ELSI Task Force, of the University of Zurich, funded by the Swiss National Science Foundation, in Switzerland.

g) titolarità di brevetti relativamente ai settori concorsuali nei quali è prevista;  
h) attività di relatore a congressi e convegni nazionali e internazionali;

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*Oral contributions at international conferences and workshops (only personal presentations, no posters, last 5 years)*

28-30 June, 2019, "Transparency As Design Publicity: Explaining and Justifying Inscrutable Algorithms",  
ETHICOMP, Norfolk Virginia

15-17 May, 2019, "Nudging the Sharing of Data in a Fair Way", Tilting Perspectives, Tilburg, The Netherlands 2019

March 29, 2019 "Algorithms and Fairness", AI Governance Forum, Geneva, Switzerland

Jan 30-Feb 1, 2019 with Christen M. "Two Concepts of Group Privacy" Computers Privacy and Data Protection  
Conference (CDPD) 2019, Bruxelles, Belgium.

29-31 Jan, 2019 with Heidari H., Gummadi, Krishna P. , Krause A. "A Moral Framework for Understanding Fair ML  
Through Economic Models of Equality of Opportunity" ACM FAT\* Conference 2019, Atlanta, USA  
online participation (and paper published in the proceedings)

7-10 Jan, 2019 Invited Lecturer, "Algorithmic fairness, discrimination, and equality of opportunity", Winter School on  
Inequality and Social Welfare Theory, Alba di Canazei, TN, Italy

Nov 29, 2018, Basel "From the ethics of data to the politics of algorithms", invited keynote, Symposium: Ethical Issues  
in Big Data Research.

21-23 June 2018, Rome "The place of algorithms in a theory of social justice", Association for Legal and Social  
Philosophy annual conference

14-16 June 2018, Padova "The moral significance of 'knowledge problem' for the governance of digital phenotypes",  
STS Italia Conference

4 –6 September 2017, Galway. "Information and insurance: discrimination and solidarity from genetics to big data".  
Invited: COST Action CHIP ME Final conference

August 29-September 01 2017, Tallin-Helsinki. "What can philosophy contribute to data ethics?" Ethics Track MyData  
2017. "What can political philosophy contribute to our data futures?" Workshop: Our data future,  
Conference: Mydata 2017

8-9 March 2017, Trento. “Which genetic enhancements is it most reasonable to expect?” CHIP ME Gene-Editing Workshop

6-8 September 2016, Leuven. CHIP ME Annual meeting 2016. Invited talk: “Ethical and political implications of the digital phenotype: some ideas for a brief concept note”. CHIP ME Annual meeting 2016. Invited talk (with Thomas Ruddy): “MIDATA - a model of citizen-led data sharing for Europe”

August 31- September 3, 2016, Barcelona. European Association for the Study of Science and Technology (EASST) Science and technology by other means: Exploring collectives, spaces and futures. Presentation of the paper “health data cooperatives” at the panel on “biomedical sharing economies”

12-15 July 2016, Edinburgh. World Congress of Bioethics. Presentation on “Ethical responses to epidemics: some hard cases”, Symposium on Implementing ethical guidelines in response to epidemics. Disciplines: ethics, public health, social science.

8-10 January 2015, Utrecht. International conference on The Ethics of Economic Institutions. Presentation on “Tackling Innovation Where It Matters the Most: Why the Global Institute for Justice in Innovation fails”

4-6 September 2015, Toulouse. IBISS workshop on epigenetics. Presentation “Epigenetic Inheritance and Our Responsibilities to Future Generations”

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#### *Outreach activities*

- Participation to the Alpbach Forum in Vienna about ethical cybersecurity
- Interview in *Die Presse* on ethical cybersecurity
- My research on the digital phenotype has been covered on the Serbian National Television (2015).
- One Bar Camp intervention (Dove inizia la mobilità sociale [where does social mobility begins?], **Bar Camp** Bocconi on “Obiettivo mobilità sociale”. 2012)
- One participation to a literary festival (**Parolario**: Naturale e Artificiale, Como, Italy. 2011)

#### i) conseguimento di premi e riconoscimenti nazionali e internazionali per attività di ricerca;

Since his PhD, Michele Loi has successfully demonstrated the buildup of own, independent research in the field of bioethics and technology ethics. He has financed his research also relying on third party funding (FTC scholarship 1.04.2013 - 30.09.2015 see above, COST Action CHIP ME, acting as vice-chair of the Action from Nov 2013 to September 2015). He has gained expertise in a broad spectrum of domains that include epigenetics (seminal publication in the bioethics of genetics) and ethics & technology (normative issues of big data research and of ICT applications in various settings such as insurance, health, security). Currently, Michele Loi’s research on fairness of machine learning (co-authored with computer scientists) is at the forefront of the literature combining philosophical and statistical methodologies, e.g. the paper accepted to the ACM FAT\* conference of 2019. His expertise as an applied ethics scholar is internationally acknowledged by his invitations to act as an expert of important European regulatory institutions (European Medical Agency), international organizations (World Health Organization), and large EU research projects (SIENNA).

#### International Competitive Fellowships:

- 1) Harvard/Brocher summer school (partial scholarship, 1500 CHF)
- 2) Brocher Summer Academy in Global Population Health (June 2014);
- 3) Fellowship: Hoover Fellowship (1500 €) Université Catholique de Louvain, Louvain-la-Neuve, Belgium (March 2012);
- 4) Fellowship: Brocher Fellowship (approx. 6000 CHF), Fondation Brocher, Hermance, Switzerland (April-June 2010); Scholarship: Scuola di Alta Formazione Filosofica, Centro Studi Filosofico Religiosi Luigi Pareyson, Torino.

j) possesso del diploma di specializzazione europea riconosciuto da Board internazionali, relativamente a quei settori concorsuali nei quali è prevista.

Data

18.Nov.2019

Luogo

Zurigo