Filippo Corponi MD, MSc

Education ____

University of Edinburgh

Edinburgh, Scotland

Ph.D. IN BIOMEDICAL ARTIFICIAL INTELLIGENCE

Sep. 2021 - Expected Aug. 2024

- Fully funded by UKRI.
- Supervised by Dr. Antonio Vergari.
- Research topics: 1) digital phenotyping; 2) machine learning for mental healthcare.

University of Edinburgh

Edinburgh, Scotland

M.Sc. by Research in Biomedical Artificial Intelligence (with Distinction, 1st class)

Sep. 2020 - Aug. 2021

- Fully funded by UKRI.
- Supervised by Dr. Peggy Series.

Scuola Superiore Sant'Anna

Pisa, Italy

DIPLOMA IN MEDICAL SCIENCE (WITH DISTINCTION)

Aug. 2010 - Jun. 2017

University of Pisa

Pisa, Italy

MEDICAL DEGREE (WITH DISTINCTION)

Sep. 2009 - Oct. 2015

Experience_

NHS Lothian, South West Edinburgh CMHT

Edinbrugh

LOCUM CONSULTANT IN GENERAL ADULT PSYCHIATRY

May 2022 - Current

Clínic Hospital of Barcelona, University of Barcelona

Remote

DATA SCIENTIST

Jan. 2022 - Jan. 2023

- Led the machine learning development in Python and PyTorch to identify digital biomarkers in mood disorders from multivariate wearable data. The project was awarded the Baszucki Brain Research Fund Grant 2022 from the Milken Institute.
- Preliminary results on multi-item psychometric scales regression using BiLSTM and Transformers have been accepted to NeurIPS 2022 Workshop on Learning from Time Series for Health.

King's College London, Institute of Psychiatry, Psychology & Neuroscience

London, Uk

VISITING RESEARCH ASSISTANT

May. 2020 - Oct. 2020

- Supervised by Prof. Daniel Stahl.
- Research topics: 1) medical statistics and statistical learning; 2) machine learning for mental healthcare.

Clinic Hospital of Barcelona, University of Barcelona

Barcelona, Spain

PSYCHIATRY TRAINEE

Nov. 2018 - Oct. 2019

- Supervised by Prof. Eduard Vieta.
- 6-month rotation in bipolar and depressive disorders outpatient psychiatric clinic; 6-month rotation in bipolar and depressive disorders inpatient psychiatric clinic.

University of Bologna

Bologna, Italy

PSYCHIATRY TRAINEE

Oct. 2016 - Oct. 2020

- Supervised by Prof. Alessandro Serretti.

Selected Publications

FEBRUARY 2024 FILIPPO CORPONI 1

^{*} denotes equal contributions. Please find my complete list of publications on Google Scholar.

2023		a from subjects playing Super Mario, sitting university exams, or p nood episodes via self-supervised learning	performing physical exercise help	URL
	F. Corponi , B.	M. Li, G. Anmella, C. Valenzuela-Pascual, A. Mas, I. Pacchiarotti, N	1. Valentí, I. Grande, A.	
	Benabarre, M. arXiv	Garriga, E. Vieta, A. H. Young, S. M. Lawrie, H. C. Whalley, D. Hida	lgo-Mazzei, A. Vergari	
2023		ood disorder symptoms monitoring from multivariate time-serie d a single number	s sensory data: Getting the full	URL
	F. Corponi *, I Hidalgo-Mazz <i>medRxiv</i>	B. M. Li *, G. Anmella, A. Mas, M. Sanabra, E. Vieta, INTREPIBD Gro ei, A. Vergari	up, S. M. Lawrie, H. C. Whalley, D.	
2023		early age at onset in bipolar disorder according to distinctive neu the FACE-BD study	rodevelopmental pathways:	URL
		Lefrere, M. Leboyer, F. Bellivier, O. Godin, J. Loftus, P. Courtet, C. 1. Polosan, R. Schwan, L. Samalin, E. Olié, B. Etain , P. Seriès, R. B Medicine		
2022	Inferring mood disorder symptoms from multivariate time-series sensory dat B. M. Li*, F. Corponi *, G. Anmella, A. Mas, M. Sanabra, D. Hidalgo-Mazzei, A. V NeurIPS Workshop on Learning from Time Series for Health			URL
2022	Antidepressants: indications, contraindications, interactions, and side effects F. Corponi , C. Fabbri, A. Serretti Advances in Pharmacology			URL
2020	Symptom networks in acute depression across bipolar and major depressive disorders: A network analysis on a large, international, observational study		URL	
	Bowden, S. Mo	G. Anmella * , N. Verdolini, I. Pacchiarotti, L. Samalin, D. Popovic, . osolov, A.H. Young, G. Perugi, E. Vieta, A. Murru ropsychopharmacology	J.M. Azorin, J. Angst, C.L.	
2020	Deconstructing major depressive episodes across unipolar and bipolar depression by severity and duration: a cross-diagnostic cluster analysis on a large, international, observational study			URL
		Anmella, I. Pacchiarotti, L. Samalin, N. Verdolini, D. Popovic, J.M Young, G. Perugi, E. Vieta, A. Murru psychiatry	. Azorin, J. Angst, C.L. Bowden, S.	
Teac	ching			
2022 S	. •	tor & Demonstrator for Machine Learning in Signal Processing (M liversity of Edinburgh, School of Engineering	Sc). PGEE1	11175
Skill	ls			
Progr	aming	Python, PyTorch, TensorFlow, Keras, scikit-learn, PyMC, R		
Langu	ıages	English (C2), Italian (Native)		
Docur	ment Creation	Microsoft Office Suite, LaTex, Markdown		
Refe	erence			
Dr. Antonio Vergari		Reader, School of Informatics, University of Edinburgh	avergari@ed.a	c.uk
Dr. Sharon Smith		Clinical Director, NHS Lothian	sharon.smith@nhslothian.scot.nh	s.uk