Filippo Corponi

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

Clinic 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
- Research output: Frontal lobes dysfunction across clinical clusters of acute schizophrenia.

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

Publications

January 2024 Filippo Corponi 1

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

2023		Wearable data from subjects playing Super Mario, sitting university exams, or performing physical exercise help UR detect acute mood episodes via self-supervised learning		
		nood episodes via seit-supervised learning . M. Li, G. Anmella, C. Valenzuela-Pascual, A. Mas, I. Pacchiarotti, M. Va	lentí I Grande Δ	
	-	Benabarre, M. Garriga, E. Vieta, A. H. Young, S. M. Lawrie, H. C. Whalley, D. Hidalgo-Mazzei, A. Vergari		
	arXiv	,,,,,		
2023	Automated mood disorder symptoms monitoring from multivariate time-series sensory data: Getting the full picture beyond a single number		URL	
	F. Corponi , B. M. Li, G. Anmella, A. Mas, M. Sanabra, E. Vieta, INTREPIBD Group, S. M. Lawrie, H. C. Whalley, D. Hidalgo-Mazzei, A. Vergari <i>medRxiv</i>			
2023	Definition of early age at onset in bipolar disorder according to distinctive neurodevelopmental pathways: insights from the FACE-BD study			URL
	F. Corponi , A. Lefrere, M. Leboyer, F. Bellivier, O. Godin, J. Loftus, P. Courtet, C. Dubertret, E. Haffen, P.M. Llorca, and P. Roux, M. Polosan, R. Schwan, L. Samalin, E. Olié, B. Etain, P. Seriès, R. Belzeaux <i>Psychological Medicine</i>			
2022	Inferring mood disorder symptoms from multivariate time-series sensory data B. M. Li, F. Corponi *, G. Anmella, A. Mas, M. Sanabra, D. Hidalgo-Mazzei, A. Vergari NeurIPS Workshop on Learning from Time Series for Health			URL
2022		nts: indications, contraindications, interactions, and side effects		URL
	F. Corponi, C. Fabbri, A. Serretti			
	Advances in Pharmacology			
2020	Symptom networks in acute depression across bipolar and major depressive disorders: A network analysis on a large, international, observational study			URL
	Bowden, S. M	G. Anmella *, N. Verdolini, I. Pacchiarotti, L. Samalin, D. Popovic, J.M. osolov, A.H. Young, G. Perugi, E. Vieta, A. Murru uropsychopharmacology	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			
		. Anmella, I. Pacchiarotti, L. Samalin, N. Verdolini, D. Popovic, J.M. Azo Young, G. Perugi, E. Vieta, A. Murru	rin, J. Angst, C.L. Bowden, S.	
Tead	hing			
2022 \$	-	tor & Demonstrator for Machine Learning in Signal Processing (MSc). niversity of Edinburgh, School of Engineering	PGEE.	11175
Skil	ls			
Progr	aming	Python, PyTorch, TensorFlow, Keras, scikit-learn, PyMC, R		
Langu	ıages	English (C2), Italian (Native)		
Docui	ment Creation	Microsoft Office Suite, LaTex, Markdown		
Refe	erence			
Dr. An	tonio Vergari	Reader, School of Informatics, University of Edinburgh	avergari@ed.a	ıc.uk
Dr. Sharon Smith			on.smith@nhslothian.scot.nh	ıs.uk