# Filippo Corponi MD, MSc, PhD

Education \_\_\_\_

**University of Edinburgh** 

Edinburgh, Scotland

Ph.D. IN BIOMEDICAL ARTIFICIAL INTELLIGENCE

Sep. 2021 - Aug. 2024

- Fully funded by UKRI.
- Supervised by Dr. Antonio Vergari.
- Research topics: wearables; personal sensing; 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**

SEPTEMBER 2024 FILIPPO CORPONI 1

<sup>\*</sup> denotes equal contributions. Please find my complete list of publications on Google Scholar.

2024	F. Corponi, B.	e variability change over acute episodes of bipolar disorder? A E M. Li, G. Anmella, C. Valenzuela-Pascual, I. Pacchiarotti, M. Valer ta, S. M. Lawrie, H. C. Whalley, D. Hidalgo-Mazzei, A. Vergari	•	URL
2024	Wearable Data Help Detect A Observational <b>F. Corponi</b> , B. Benabarre, M.	M. Li, G. Anmella, C. Valenzuela-Pascual, A. Mas, I. Pacchiarotti, I Garriga, E. Vieta, A. H. Young, S. M. Lawrie, H. C. Whalley, D. Hida	pective, Exploratory, M. Valentí, I. Grande, A.	URL
2024	picture beyon  F. Corponi *, E	ood disorder symptoms monitoring from multivariate time-serie d a single number 3. M. Li *, G. Anmella, C. Valenzuela-Pascual, A. Mas, I. Pacchiarot Garriga, E. Vieta, S. M. Lawrie, H. C. Whalley, D. Hidalgo-Mazzei,	ti, M. Valentí, I. Grande, A.	URL
2023	insights from <b>F. Corponi</b> , A.	arly age at onset in bipolar disorder according to distinctive neu the FACE-BD study Lefrere, M. Leboyer, F. Bellivier, O. Godin, J. Loftus, P. Courtet, C. I. Polosan, R. Schwan, L. Samalin, E. Olié, B. Etain , P. Seriès, R. B Medicine	Dubertret, E. Haffen, P.M. Llorca,	URL
2022	Inferring mood disorder symptoms from multivariate time-series sensory data B. M. Li*, <b>F. Corponi</b> *, G. Anmella, A. Mas, M. Sanabra, D. Hidalgo-Mazzei, A. <i>NeurIPS Workshop on Learning from Time Series for Health</i>			URL
2022	Antidepressants: indications, contraindications, interactions, and side effect <b>F. Corponi</b> , C. Fabbri, A. Serretti <i>Advances in Pharmacology</i>			URL
2020	cross-diagnos <b>F. Corponi</b> , G.	g major depressive episodes across unipolar and bipolar depres tic cluster analysis on a large, international, observational study Anmella, I. Pacchiarotti, L. Samalin, N. Verdolini, D. Popovic, J.M Young, G. Perugi, E. Vieta, A. Murru psychiatry		URL
Teac	hing			
2022 S	. 0	tor & Demonstrator for Machine Learning in Signal Processing (Miversity of Edinburgh, School of Engineering	Sc). PGEE	11175
Skill	S			
Progra Langu Docum	_	Python, PyTorch, TensorFlow, Keras, scikit-learn, PyMC, R English (C2), Italian (Native) Microsoft Office Suite, LaTex, Markdown		
Refe	rence			
Dr. Antonio Vergari Dr. Sharon Smith		Reader, School of Informatics, University of Edinburgh Clinical Director, NHS Lothian	avergari@ed.ac.uk sharon.smith@nhslothian.scot.nhs.uk	