

Andrea Insabato

Curriculum Vitae

Data Science skills		
branch	topics	software
Machine Learning	<ul style="list-style-type: none"> supervised unsupervised deep learning 	Scikit-learn pyTorch
Statistics	<ul style="list-style-type: none"> Bayesian estimation experimental design hypothesis testing timeseries analysis survival analysis 	pandas, statsmodels
Data Visualization	<ul style="list-style-type: none"> interactive graphics visualization dashboards 	dash, plotly, matplotlib, bokeh
Computer vision	<ul style="list-style-type: none"> segmentation registration object identification 	OpenCV, scikit-image
Graph Theory	Network analysis	networkx
Programming	<ul style="list-style-type: none"> Python Matlab C/C++ bash shell 	
Databases	<ul style="list-style-type: none"> relational DB JSON 	SQLite, python-sql, sqlalchemy

Computer skills	
Operating systems	Linux (admin), Windows, Mac OS
Typesetting	LaTeX, Office Suite
Version Control	Git, Subversion

Languages	
Italian	Native
Spanish	Full professional proficiency
English	Professional working proficiency
Catalan	Full professional proficiency
German	Professional working proficiency

Working experience

Apr 2021 - today	Data scientist (freelance)	SMADEX
Dec 2020 - today	Data Engineer (freelance)	brain-focus
Sept-Dec 2020	Data scientist (freelance)	Centre d'Estudis Jurídics i Formació Especialitzada. Generalitat de Catalunya
Jan 2020 - today	R2 researcher - neural data science	IDIBAPS, Barcelona
Sept-Dec 2019	MSCA Researcher	Université Aix-Marseille
2018	Postdoctoral Researcher	Universitat Pompeu Fabra, Barcelona
Sept-Dec 2017	Associate Research Scientist	Columbia University, New York
2014-2017	Postdoctoral Researcher	Universitat Pompeu Fabra, Barcelona

Teaching Full list available at [andreainsabato.eu](#)

2013-2019	Assistant Professor (290 h) Machine Learning and Neuroscience Programming Physics for Engineering	Universitat Pompeu Fabra, Barcelona
2015-2020	Independent courses (60 h) Python programming Neural Data Science Modeling in decision-making	IDIBAPS, Barcelona UPC, Barcelona UPF, Barcelona

Education

2009-2014	PhD in Computer Science, cum Laude	Universitat Pompeu Fabra, Barcelona
2007-2009	MA in Cognitive Science, cum Laude	Università La Sapienza, Roma
2004-2007	BA in Communication Theory and Philosophy, cum Laude	Università L'Orientale, Napoli

Additional Courses Full list available at [andreainsabato.eu](#)

Aug 2021	Deep learning summer course	NMA
Sept-Dec 2019	Computer Vision and Deep Learning	UOC, Barcelona
22-26/06/2015	Machine Learning Summer School	Universitat Jaume I, Castellón

Awards

2019	Marie Skłodowska Curie Actions - European Fellowship	European Union
2017	Humanities and Neuroscience Fellowship	Columbia University, New York
2009	Marie Curie ESR	UPF, Barcelona

Selected Publications Full list available at [andreainsabato.eu](#)

14 publications, h-index: 6

2020	M. H. Adhikari, J. Griffis, J. S. Siegel, M. T. d. Schotten, G. Deco, A. Insabato, M. Gilson, and M. Corbetta. Effective connectivity extracts clinically relevant prognostic information from resting state activity in stroke. medRxiv, page 2020.12.11.20247783, Dec. 2020.
2019	Gilson M, ... , Insabato A. <i>Model-based whole-brain effective connectivity to study distributed cognition in health and disease. Network Neuroscience</i>
2018	Pallarés V*, Insabato A*, ... , Gilson M. <i>Extracting orthogonal subject-and condition-specific signatures from fMRI data using whole-brain effective connectivity. Neuroimage</i>