

UNIVERSITA' DEGLI STUDI DI GENOVA

AREA RICERCA, TRASFERIMENTO TECNOLOGICO E TERZA MISSIONE

SERVIZIO RICERCA

SETTORE RICERCA NAZIONALE

IL RETTORE

- Visto il Decreto Rettorale n. 823 del 24/02/2025 con il quale viene indetto il concorso, per titoli e colloquio per il conferimento di 1 borsa di ricerca post-laurea, di tipo starting, eventualmente rinnovabile, della durata di 6 mesi, dell'importo di € 6.600,00 (seimilaseicento/00), per lo svolgimento di una ricerca sul tema "Techniques for the automatic detection of the Origin of Movement", presso il DIBRIS dell'Università degli Studi di Genova;
- Visto il Decreto Rettorale n. 1300 del 24/03/2025 con il quale è stata costituita la Commissione giudicatrice per il conferimento della suddetta borsa di ricerca;
- Visto il verbale della Commissione giudicatrice del concorso in parola, riunitasi in data 27/03/2025;
- Constatata la regolarità della procedura seguita;

DECRETA

Art. 1

Sono approvati gli atti del concorso di cui in premessa e la seguente graduatoria di merito:

1. Dott. Abdullah Al Foysal	punti 76/100
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Sotto condizione dell'accertamento dei requisiti di cui al bando, è dichiarato vincitore del concorso in parola il Dott. Abdullah Al Foysal.

Genova,

IL RETTORE

(firmato digitalmente)



Abdullah Al Foyсал

ABOUT ME

Innovative and research-driven AI and Machine Learning Engineer with a strong computer engineering and psychology background. Passionate about leveraging AI to advance healthcare, particularly in neuropsychiatric research and clinical decision-making. Experienced in developing machine learning models, blockchain applications, and AI-driven solutions for mental health, rehabilitation, and predictive analytics. Seeking opportunities to apply my expertise in AI, deep learning, and software engineering to drive impactful advancements in healthcare, research, and technology-driven solutions.

WORK EXPERIENCE

01/02/2024 – 10/01/2025 Rome, Italy

EDUCATIONAL RESEARCHER ISTITUTO DI PSICOPATOLOGIA, ROMA

As a machine learning engineer at the Institute of Psychopathology in Rome, I work under the supervision of Dr. Rocco de Filippis, focusing on the intersection of machine learning and psychology. My research involves developing and applying machine learning models to understand better and treat neuropsychiatric disorders. By combining advanced computational techniques with psychology research, I aim to create innovative solutions that enhance diagnostic accuracy and improve therapeutic outcomes for patients with complex mental health conditions.

01/03/2023 – 10/10/2023 Genova, Italy

SOFTWARE ENGINEER WASDI

At WASDI Company, I understand the critical role that seamless document generation plays in enhancing operational efficiency and delivering a polished professional image. That's why we're excited to propose the integration of FPDF (Free PDF Generation Library) into any projects, a solution designed to meet user's unique needs and elevate the document creation process. At WASDI Company, I understand the critical role that seamless document generation plays in enhancing operational efficiency and delivering a polished professional image.

11/01/2023 – 27/02/2024 Genova, Italy

DATA SCIENTIST MSNYDESIGNS.SRL

Consider building enterprise software to be one of the most difficult human activities. Dealing with a large number of requirements in a short period, dealing with changing requirements. knowledge of the healthcare domain by creating an ad hoc software product, Personal Claim, intended for private healthcare facilities, which is unique in the market that can automate the acquisition, management, and interchange of health claims data with the portals of major Italian funds and insurance companies.

01/06/2021 – 30/09/2021 Nanchang, China

INTERN QIANFENG INTERCONNECTION TECHNOLOGY CO., LTD, CHINA

Consider building enterprise software to be one of the most difficult human activities. Dealing with a large number of requirements in a short period, dealing with changing requirements. knowledge of the healthcare domain by creating an ad hoc software product, Personal Claim, intended for private healthcare facilities, which is unique in the market that can automate the acquisition, management, and interchange of health claims data with the portals of major Italian funds and insurance companies

EDUCATION AND TRAINING

01/03/2018 – 11/01/2022 Ganzhou, China

BACHELOR DEGREE IN COMPUTER SCIENCE AND TECHNOLOGY Jiangxi University of Science and Technology

Website <https://e.jxust.edu.cn/> | Level in EQF EQF level 8

LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
CHINESE	A2	A2	B2	B1	A1
ENGLISH	C2	C2	C2	C2	C2
ITALIAN	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

programming: Python, MATLAB and SQL | Spring Boot, Spring MVC, Maven | REST API Development & Microservices Architecture

Programming & Development:

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and Interpersonal Skills

Research Collaboration & Teamwork: Worked closely with multidisciplinary teams, including psychologists, AI researchers, and healthcare professionals, to develop AI-driven solutions for neuropsychiatric disorders.

Scientific Writing & Publications: Authored and co-authored multiple peer-reviewed research papers, presenting findings in academic conferences and journals.

Technical Documentation & Presentation: Experienced in writing detailed reports, research papers, and documentation for AI models, software solutions, and blockchain applications.

Cross-Cultural Communication: Collaborated with international teams in China, Italy, and Bangladesh, adapting to diverse work environments and cultural dynamics.

Problem-Solving in Team Environments: Developed AI-based healthcare solutions by working in collaboration with doctors, engineers, and data scientists to address real-world medical challenges.

Mentoring & Knowledge Sharing: Provided guidance to peers and interns in AI, machine learning, and blockchain applications through hands-on training and discussions.

PUBLICATIONS

2021

[Blockchain in Healthcare](#)

Huang, G. and Al Foysal, A., 2021. Blockchain in Healthcare. Technology and Investment, 12(3), pp.168-181.

2024

[Insights Unveiled: Harnessing AI to Explore Human Behaviour in Social Sciences](#)

Filippis, R. D., Foysal, A. A. (2024). Insights Unveiled: Harnessing AI to Explore Human Behaviour in Social Sciences. J Math Techniques Comput Math, 3(5), 1-08.

2024

[Harnessing the Power of Artificial Intelligence in Neuromuscular Disease Rehabilitation: A Comprehensive Review and Algorithmic Approach](#)

Filippis, R. and Foysal, A. (2024) Harnessing the Power of Artificial Intelligence in Neuromuscular Disease Rehabilitation: A Comprehensive Review and Algorithmic Approach. Advances in Bioscience and Biotechnology, 15, 289-309.

2024

[The risk perspective of AI in healthcare: GDPR and GELSI framework \(Governance, Ethical, Legal and Social Implications\) and the new European AI Act](#)

de Filippis, Rocco, et al. "The risk perspective of AI in healthcare: GDPR and GELSI framework (Governance, Ethical, Legal and Social Implications) and the new European AI Act." Italian Journal of Psychiatry (2024).

2024

The Fusion of Minds: Navigating the Confluence of AI, ML, and Psychology in the Digital Era

de Filippis, R., Al Foysal, A. (2024). The Fusion of Minds: Navigating the Confluence of AI, ML, and Psychology in the Digital Era. J Math Techniques Comput Math, 3(6), 01-09.

2024

Evaluating Pharmacological and Rehabilitation Strategies for Effective Management of Bipolar Disorder: A Comprehensive Clinical Study

Filippis, R. and Foysal, A. (2024) Evaluating Pharmacological and Rehabilitation Strategies for Effective Management of Bipolar Disorder: A Comprehensive Clinical Study. Advances in Bioscience and Biotechnology, 15, 406-431.

2024

Predictive Analysis of Neuroleptics-Induced Obsessive-Compulsive Symptoms Using Machine Learning

de Filippis, R., Al Foysal, A. (2024). Predictive Analysis of Neuroleptics-Induced Obsessive-Compulsive Symptoms Using Machine Learning. J Math Techniques Comput Math, 3(8), 01-07.

2024

Data-Driven Evaluation of Neuroleptic Therapy in Dementia: Machine Learning Applications

de Filippis, R., Al Foysal, A. (2024). Data-Driven Evaluation of Neuroleptic Therapy in Dementia: Machine Learning Applications. J Math Techniques Comput Math, 3(8), 01-06.

2024

Machine Learning-Enhanced Evaluation of Neuroleptics Efficacy and Management in Schizoaffective Disorder

de Filippis, R., Al Foysal, A. (2024). Machine Learning-Enhanced Evaluation of Neuroleptics Efficacy and Management in Schizoaffective Disorder. J Math Techniques Comput Math, 3(8), 01-08.

2024

Machine Learning-Driven Evaluation of Pramipexole and Aripiprazole as Augmentation Therapies in Treatment-Resistant Depression

de Filippis, R., Al Foysal, A. (2024). Machine Learning-Driven Evaluation of Pramipexole and Aripiprazole as Augmentation Therapies in Treatment-Resistant Depression. J Math Techniques Comput Math, 3(8), 01-06.

2024

Machine Learning-Driven Evaluation of Lithium and Valproate Combination Therapy in Bipolar Disorder

de Filippis, R., Al Foysal, A. (2024). Machine Learning-Driven Evaluation of Lithium and Valproate Combination Therapy in Bipolar Disorder. J Math Techniques Comput Math, 3(8), 01-06.

2024

Machine Learning-Driven Evaluation of Antidepressant and Mood Stabilizer Combination Therapy in Bipolar Disorder

de Filippis, R., Al Foysal, A. (2024). Machine Learning-Driven Evaluation of Antidepressant and Mood Stabilizer Combination Therapy in Bipolar Disorder. J Math Techniques Comput Math, 3(8), 01-06.

2024

Machine Learning-Driven Comparative Analysis of Quetiapine and Olanzapine for Managing Depressive Episodes in Bipolar Disorder

de Filippis, R., Al Foysal, A. (2024). Machine Learning-Driven Comparative Analysis of Quetiapine and Olanzapine for Managing Depressive Episodes in Bipolar Disorder. J Math Techniques Comput Math, 3(8), 01-06.

2024

Machine Learning-Driven Evaluation of Pramipexole and Mood Stabilizer Combination Therapy in Bipolar Disorder

de Filippis, R., Al Foysal, A. (2024). Machine Learning-Driven Evaluation of Pramipexole and Mood Stabilizer Combination Therapy in Bipolar Disorder. J Math Techniques Comput Math, 3(8), 01-06.

2024

Comprehensive analysis of stress factors affecting students: a machine learning approach

de Filippis, R., Foysal, A.A. Comprehensive analysis of stress factors affecting students: a machine learning approach. Discov Artif Intell 4, 62 (2024).

2024

Chatbots in Psychology: Revolutionizing Clinical Support and Mental Health Care

Filippis, R. and Foysal, A. (2024) Chatbots in Psychology: Revolutionizing Clinical Support and Mental Health Care. Voice of the Publisher, 10, 298-321.

2024

Using Ensemble Machine Learning: A Multifaceted Approach to Predicting Rehabilitation Outcomes

Filippis, R. de., & Foysal, A. A. (2024). Using Ensemble Machine Learning: A Multifaceted Approach to Predicting Rehabilitation Outcomes. Disease and Health Research: New Insights Vol. 8, 13–48.

2024

Comparative Analysis of GABAergics vs. Opioids in Chronic Pain Management

de Filippis, R. and Al Foysal, A. (2024) Comparative Analysis of GABAergics vs. Opioids in Chronic Pain Management

2024

Securing Predictive Psychological Assessments: The Synergy of Blockchain Technology and Artificial Intelligence

de Filippis, R. and Al Foysal, A. (2024) Securing Predictive Psychological Assessments: The Synergy of Blockchain Technology and Artificial Intelligence. Open Access Library Journal, 11, 1-22.

2024

Case Report: The Role of Monoamine Oxidase Inhibitors in Treating Resistant Depression

de Filippis, R. and Al Foysal, A. (2024) Case Report: The Role of Monoamine Oxidase Inhibitors in Treating Resistant Depression. Open Access Library Journal, 11: e12369.

2024

Case Report: The Role of Tricyclic Antidepressants in Treating Resistant Depression

de Filippis, R. and Al Foysal, A. (2024) Case Report: The Role of Tricyclic Antidepressants in Treating Resistant Depression. Open Access Library Journal, 11, 1-11.

2024

Comparative Analysis of Monotherapy and Bi-Therapy in Antipsychotic Treatment

de Filippis, R. and Al Foysal, A. (2024) Comparative Analysis of Monotherapy and Bi-Therapy in Antipsychotic Treatment. Open Access Library Journal, 11: e12367

2024

Blockchain Brains: Pioneering AI, ML, and DLT Solutions for Healthcare and Psychology

de Filippis, R. and Foysal, A.A. (2024) Blockchain Brains: Pioneering AI, ML, and DLT Solutions for Healthcare and Psychology. Open Access Library Journal, 11, 1-24.

2024

Integrating Explainable Artificial Intelligence (XAI) in Forensic Psychiatry: Opportunities and Challenges

de Filippis, R. and Foysal, A.A. (2024) Integrating Explainable Artificial Intelligence (XAI) in Forensic Psychiatry: Opportunities and Challenges. Open Access Library Journal, 11, 1-19.

2024

Decoding Emotions: How AI and Machine Learning Unravel the Human Psyche

Filippis, R. and Foysal, A. (2024) Decoding Emotions: How AI and Machine Learning Unravel the Human Psyche. Voice of the Publisher, 10, 382-399.

2025

Using Deep Learning to Predict QT Prolongation in ICU Patients on Antipsychotic Therapy: A Case Study

de Filippis, R. and Al Foysal, A. (2025) Using Deep Learning to Predict QT Prolongation in ICU Patients on Antipsychotic Therapy: A Case Study. Open Access Library Journal, 12, 1-11.

2025

AI-Assisted Case Study of Delirium in ICU Patients: Predictive Analysis, Monitoring, and Interventions

de Filippis, R. and Al Foysal, A. (2025) AI-Assisted Case Study of Delirium in ICU Patients: Predictive Analysis, Monitoring, and Interventions. Open Access Library Journal, 12, 1-12.

2025

AI-Driven Early Warning and Risk Management System for Delirium in ICU Patients

de Filippis, R. and Al Foysal, A. (2025) AI-Driven Early Warning and Risk Management System for Delirium in ICU Patients. Open Access Library Journal, 12, 1-17.

2025

Enhanced Predictive Modelling for Delirium in Intensive Care Using Simplified Deep Learning Architecture with Attention Mechanism

de Filippis, R. and Al Foysal, A. (2025) Enhanced Predictive Modelling for Delirium in Intensive Care Using Simplified Deep Learning Architecture with Attention Mechanism. Open Access Library Journal, 12, 1-1.

2025
[Cost-Optimized and Efficacy-Driven Analysis of Antidepressants in Major Depressive Disorder: A Machine Learning and Visualization Approach](#)

de Filippis, R. and Al Foysal, A. (2025) Cost-Optimized and Efficacy-Driven Analysis of Antidepressants in Major Depressive Disorder: A Machine Learning and Visualization Approach. Open Access Library Journal, 12, 1-14.

2025
[Advanced Machine Learning Models for Gender-Specific Antidepressant Response Prediction: Overcoming Data Imbalance for Precision Psychiatry](#)

de Filippis, R. and Al Foysal, A. (2025) Advanced Machine Learning Models for Gender-Specific Antidepressant Response Prediction: Overcoming Data Imbalance for Precision Psychiatry. Open Access Library Journal, 12, 1-13.

2025
[Predicting Bipolar Disorder Treatment Outcomes with Machine Learning: A Comprehensive Evaluation of Random Forest, Gradient Boosting, and Ensemble Approaches](#)

de Filippis, R. and Al Foysal, A. (2025) Predicting Bipolar Disorder Treatment Outcomes with Machine Learning: A Comprehensive Evaluation of Random Forest, Gradient Boosting, and Ensemble Approaches. Open Access Library Journal, 12, 1-1.

2025
[Case Report: Beneficial Effect of Quetiapine Monotherapy in Bipolar Depression with Comorbid Obsessive-Compulsive Disorder \(OCD\)](#)

de Filippis, R. and Al Foysal, A. (2025) Case Report: Beneficial Effect of Quetiapine Monotherapy in Bipolar Depression with Comorbid Obsessive-Compulsive Disorder (OCD). Open Access Library Journal, 12, 1-10.

2025
[AI-Driven Pneumonia Diagnosis Using Deep Learning: A Comparative Analysis of CNN Models on Chest X-Ray Images](#)

Al Foysal, A. and Sultana, S. (2025) AI-Driven Pneumonia Diagnosis Using Deep Learning: A Comparative Analysis of CNN Models on Chest X-Ray Images. Open Access Library Journal, 12, 1-17.

● **HOBBIES AND INTERESTS**

Profession Interests

Leet Code, Research on AI and ML, Psychology