**The Results of the Doctoral Studies competition – Mohamed VI Polytechnic University UM6P/CEDoc 2021/2022**

**Sciences & Technology cluster**

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| **Structure**  **de** **recherche** | **Prénom** | **Nom** | **Position**  |
| **AGC** | Wissal | Liman | Bioinformatics and Computational Chemistry  |
| Salma | Mouhib |  Microbiology and Biotechnology |
|  **ISSB-P** | Fatiha | Ben El Hend |  Immunology |
| **AI Movement** | Abdelouadoud | Kerarmi | AI-based decision support system for proactive Maintenance |
| Lahoucine | Kdouri | Applying machine learning to link brain activity and social behavior |
| Jihad | R'baiti | Neural machine translation for Arabic language |
| Reda | El Marhouch | Reinforcement Learning for Collaborative Heterogeneous Swarm in a Partially Known Environment |
| Youssef | Osrhir | Multi-agent Energy trading for Unmanned Areal Vehicles and Mobile Charging Stations |
| Houda | Saffi | 3D point cloud analysis for Objects, scenes and building recognition and reconstruction |
| Yahiya | Moukhlis | Creative AI: artificial intelligence techniques for image/audio/video creation and generation   |
| Fadoua | Ait Ayane | Reinforcement Learning dans la finance |
| ABDELJALIL | Zoubir | Multimodal Human-Drone Interaction for Non-Destructive Industrial Inspection |
| **AITTC** | Abdellah | Hamma | Assessment and mapping of soil and crop spatial variability |
| AZIZA | Tangi | Improving the inclusion of African women in agricultural smallholder value chains |
| **ASARI** | Hafsa | DEBBAGH-NOUR |  Plant sciences and agronomy |
| Imane | Zniber | Agricultural mycology and mycorrhization |
| Achraf | Delhali | Materials and processes for water vapor adsorptive related applications |
| **BPS** | Abdou Lahat | Mbaye | Population genomics and effector biology of the palm dieback pathogen, development of biocontrol agents in Morocco and in Kenya, as well as the study of rust disease in Morocco. |
| Aliou Moussa | Diouf | Population genomics and effector biology of the palm dieback pathogen, development of biocontrol agents in Morocco and in Kenya, as well as the study of rust disease in Morocco. |
| YAYA | SANE | Phytochemistry, metabolomics of resistant germplasm to insect pests |
| Khadija | El Bargui | Evaluate the role of the Ortho silicic acid application as fertilizer with different formulations on the reduction of Aphis fabae infestation |
| SEDKI ALAOUI | Youness | Fertilizers formulation and agronomy |
| **CESFRA** | Chipatela | Floyd | Development of spectral procedures for the diagnosis of soil acidity in sub-Saharan Africa |
| Ismail | Kouera | Development of spectral procedures for the diagnosis of soil acidity in sub-Saharan Africa |
| Tarik | El Moatassem | New approach for diagnosis and management of salt affected soils in Morocco |
| **CHAIRE EIEA** | Arouna | Zorome |  Industrial Economics of Emerging Africa  |
| FATIMA-EZZAHRA | Areqti |  Industrial Economics of Emerging Africa  |
| Saloi | Elyamani |  Industrial Economics of Emerging Africa  |
| Fatima | Mounir |  Industrial Economics of Emerging Africa  |
| **CRSA** | HAYTAM | EL Youssfi | Geospatial big data and machine learning for hydrological decision support |
| Mostafa | Bousbaa | Multi-sensor images fusion for snow cover mapping and streamflow prediction |
| Maryam | Choukri | Digital agricultural crop mapping |
| **CYSA** | Zakaria  |  EL Homaidi | Cyber security monitoring and malware detection and prevention |
| Abdellatif | El Aroussi | Use-cases of Blockchain Technology |
| Ibrahim | Missour | AI- and Game Theory-based Security modeling for Cloud-IOT Systems |
| **ECC/UM6P** | Abdelaziz | CHAQDID | Quantification des incertitudes des précipitations simulées dans les modèles climatiques |
| **EMEC** | Sanaa | Metro | Caractérisation des cavaliers en vue de leur réhabilitation |
| Asmae | EL BAHI | Synthèse et performance des tensioactifs biosourcés dans les procédés d'enrichissements de phosphate |
| Najoua | Elyamami | Approches de simulation moléculaire pour la flottation de minerais de phosphates |
| **GEP** | Fadila | EL KOUIHEN | “Synthesis and characterization of cobalt-free new materials for all-solid-state battery application”. |
| Hmida | Slimani | Investigation of innovative materials andhydration/dehydration reactions for ultra-compact thermochemical energy storagesystems” |
| **GTI** | Abdessamad | EL Mobaraky | Contribution au déploiement d’une maintenance prédictive avec une approche basée sur les jumeaux numériques et l’IA |
| Maryam | Saadi | Contribution au déploiement d’une maintenance prédictive avec une approche basée sur les jumeaux numériques et l’IA |
| **HTMR** | Tarik | Zirari | Metallurgy (Alloy design) |
| **ISE** | Insaf |  Al-chikh | Analysis of the activity of elementary school principals in Morocco: Case study |
| Mouhamadou | Salifou | Contribution of deep learning to predictive models for early dropout detection: the case of secondary school students in Morocco |
| **IWRI** | Mohamed Amine | BENALY | Empowering Phosphorous and Smart irrigation Role in building Climate-Smarter Agriculture in Africa |
| Almoatasem | Alaufi | Controlling biological fouling of seawater reverse osmosis membranes |
| Mouadh | Rafai | Intergrated Management of Drought in Morocco: Occurrence, Impacts and Adaptation |
| Hamid | CHAABANI |  Mountain climate modeling in the context of climate change  |
| Rachida | el Mansoum | An Appraisal for the Experimental Substantiation for the Inclusive Groundwater Management Contract Project in Morocco”.  |
| Yassine | Manyari | Assessing the agricultural water use dynamic in semi-arid region through remote sensing and modelling  |
| Ilyasse | Bouatou | Renewable energy in desalination: challenges and opportunities in Morocco |
| Mirielle |  Wase Moto | Socio-demographics and drinkable water characteristics: implications for adaptation readiness in Marrakech and environs |
| Mohamed Amine | RABITATEDDINE | Mathematical modeling and optimization of OCP’s seawater intake pumping stations |
| **MSDA** | Zakaria | El Hasnaoui | Stabilized Isogeometric Analysis and Finite Element Exterior Calculus for transport problems |
| Yahya | Aalaila | Generic kernel-based formulation for exploratory data analysis |
| Hind | Raki | Adding interpretability into automatic crop classification using deep learning techniques |
| Fatima-Zahrae | Nakach | Multi-Modality and Ensemble Learning for Breast Cancer Diagnosis (3703) |
| Hafsaa | Ouifak | Trade-off Performance and Interpretability in xAI (3704) |
| Youssef | Essousy | L’optimisation décentralisée pour les problèmes de grandes dimensions en calcul de structures |
| Mehdi | Jaa | MACHINE LEARNING ET MODELISATION MULTI-AGENTS APPLICATION A DES STRATEGIES DE MARCHE |
| Afaf | Yaden | Energy Conversion and Storage Using Phosphorene Materials |
| Djuric Brice | Talonpa TCHOFFO | Computational Modeling of the 2D Materials synthesis by Chemical vapordeposition |
| Mouad | Elhamdi | Generic kernel-based formulation for exploratory data analysis |
| Alaeddine | Zahir |  Dimentionaly reduction in large graphs and network analysis |
| Abdessamad | Jawad | lrreversible Langevin Samplers and variance reduction |
| Ayoub | Arraji | Modèles mathématiques pour la modélisation des matériaux |
| Houssam | Zouhri | Classification des anomalies et intrusions réseaux grâce aux techniques avancées de ML. |
| Abderrahmane | Hamdouchi | TinyML Models for Cyber Security in IoT Networks |
| **MSN** | Rachid | Oubaki | Growth and characterization of thin film materials for photovoltaic applications |
| Hicham | Sbaiti | Synthesis and characterization of high performance steel alloys |
| Ghizelane |  El omari | Advanced Battery Diagnostics for Fast Charging. |
| Khadija | Kouchi | Materials synthesis, manufacturing and electrochemical testing of novel cathode materials. |
| EL Houcine | ELMaataouy | Development of vanadium redox flow battery for electricity storage |
| Reda | Archa | Reversed Metallurgical Engineering |
| **SAP+D** |  Soukaina | Tayi | Smart data and territorial performance |
| **SCCS** | khaoula | Abdenouri | Query Optimization for Similarity Search |
| Imane | Bouayad | Recommender systems in Internet-of-Everything environments |
| Jaouhara | Chanchaf | Scalable Human guided Data Cleaning |
| SAAD | CHOUKRY | Blockchain-based Recommender Systems |
| Ali | Ibn Boubakr | Federated Learning for Autonomous Vehicles |
| Mohammed | Lahsaini | Safe and Robust Recommender Systems |
| Abderrahman | Skiredj | Processing of the arabic natural langage |
| OMAR | AMRANI | 3D Object analysis and reconstruction using augmented reality |

 **Business and Management**

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| **Structure de** **recherche** | **Nom** | **Prénom** | **Position**  |
| **ABS** | Wejie-Okachi | Ugwechi | Business Analytics & Value Networks |
| Jalal Eddine | Kassou | Entrepreneurship/Strategy |
| Basma | el Fadel | Finance |
| Kenza | Charrat | Finance |
| Hafsa | el Kamous | Organizational Behavior & Leadership |
| Hassan | Lekssays | Marketing |
| Badr-Eddine | Lahsini | Marketing |
| Anas | EL Assadi | Marketing/ Organizational Behavior & Leadership /Business Economics |
|  Aissam | Sigoul | Entrepreneurship/Strategy |
| Abdelhadi | Sohib | Organizational Behavior & Leadership / Education |
| Zineb | Achmoul | Orgazinational behavior & leadership  |
| Ghada | El Boury | Business Analytics & Value Networks |
| **SCI** | Niek | Kerssies | Collective intelligence |
| Nouhayla | Majdoubi | Collective intelligence |
| Talib | Elaissati | Collective intelligence |

 **Humanities, Economics & Social Scinces cluster**

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| **Structure** **de** **recherche** | **Nom** | **Prénom** | **Position**  |
| **FGSES** | Marouane | Masnaoui | PhD Candidate Program in Economics |
| Mimi aimé | Sossou | PhD Candidate Program in Economics |
| Hind | Zaamoun | PhD Candidate Program in Economics |
| Ikram | Aguemguem | PhD Candidate Program in Economics |
| Houyame | Hakmi | PhD Candidate Program in Economics |
| Manal | Mouhsine | PhD Candidate Program in Economics |
| Nelly Charlotte | Djuazon | PhD Candidate Program in Economics |
| Dictus ATSU | Azoellade | PhD Candidate Program in Economics |
| Aliou | Seck | PhD Candidate Program in Economics |
| Younes | Kenbib | PhD Candidate Program in Economics |
| Amal | EL Ouassif | PhD Candidate Program in Economics |

**The joint EPFL-UM6P initiative "Excellence in Africa": The results of the 100 PhDs program**



**From the Mohammed VI Polytechnic University (UM6P)**

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| **Structure de****recherche** | **Prénom et Nom** | **Sujet de thèse** |
| **MSDA** | Amal Machtalay | From mean-field games to agent-based models (and back) through Markov Chain aggregation |
| **SCCS** | Issa Coulibaly | Communication-efficient techniques for federated learning |
| **CESFRA** | Abderahmane Hamdouchi | Analyze the behavior of plants in smart Agriculture using deep Learning and IOT |

**From other universities**

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| **Prénom et Nom** | **Sujet de thèse** |
| Maurane Gaelle Fokam Fokam | Caracterisation and study of the properties of a composite material reinforced by banana leaf fibers with natural resin |
| Shimaa Heikal | Piloting a research registry for dementia: The Egyptian Dementia Network (EDN) registry |
| Lou Tinan Ange-Laetitia Tra | Optimisation and management of sewage sludges in non-collective sanitation in lower incomes settings. The case of Abidjan in Côte d’Ivoire |
| Maurine Andanje | Bioplastic Development, Characterization and Optimization of 3D Printing Process Parameters |
| Joseph Jjagwe | Iron oxide based Nanocomposite bio-adsorbents for water treatment |
| Brandon Bisschoff | Constraining the intergalactic magnetic field with magnetohydrodynamic simulations |
| Geoffrey Mwendwa | Correlation of Ferroic Orders in Multiferroic Rare-earth Composite Thin Films |