

UNIVERSIDAD AUTÓNOMA DE CIUDAD JUÁREZ



HEAD OFFICE OF PARTNERSHIP AND EXCHANGE
OFFICE FOR COOPERATION AND INTERNATIONALIZATION

SOMOSUACJ

Research projects in English

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Physicist Mathematics and Earth Sciences

Researcher name	Research project	Contact
Dr. Felipe Adrian Vázquez Galvez	Monitoring micro-plastics and other contaminants in the urban environment and its impact in the radiative forcing	fvazquez@uacj.mx
Dr. Elifalet López González	Development of 4d algebras and PDE solutions	elgonzal@uacj.mx
Dr. Rafael Torres Córdoba	Mathematical modeling applied to control theory	ratorres@uacj.mx
Dr. Roberto Ivan Cabrera Munguía	1.Shadow and gravitational lensing in Kerr-Newman space-time 2.Analytical solutions, using the factorization method, for the Schrodinger equation under different potentials 3.Harmonic analysis of commutated dc-dc, dc-ac, ac-dc, ac-ac networks	roberto.cabrera@uacj.mx



Physicist Mathematics and Earth Sciences

Researcher name	Research project	Contact
Eli Rafael Pérez Ruíz	Ecohydrology of natural and urban ecosystems of arid and semi-arid zones of the North American Monsoon área.	eli.perez@uacj.mx
Pierre Giovanni Mani González	XPS on versatile atomic layer deposition processes	pierre.mani@uacj.mx
Jorge Rodas-Osollo	Cognitive Analysis	jorge.rodas@uacj.mx



Biology and Chemistry

Researcher name	Research project	Contact
Dr. Mónica García García	Modified electrodes for the development of electrochemical sensors in drugs detection and pesticides in sewage	monica.galicia@uacj.mx



Medicine and Health Sciences

Researcher name	Research project	Contact
Dr. Juan José Ramírez Espinosa	Optimization of the pharmaceutical characteristics of vegetable extracts	juan.espinosa@uacj.mx

Multidisciplinary projects

Researcher name	Research project	
Dr. Lizette Vaneza Chávez Cano	Sustainable and equitable cities: A comparative study about the spatial experience in the case of roller derby in Orillia, Ciudad Juárez, Bogotá, and Ibagué	lizette.chavez@uacj.mx
Francisco López Orozco	Software development for Image Analysis Eye tracking by using webcams Developing a problem set for competitive programming by using omegaUp Eyetracking experiments	francisco.orozco@uacj .mx



Humanities and Behavioral Sciences

Researcher name	Research project	Contact
Dr. Roberto Estrada Olguín	Heidegger and modern philosophy	roberto.estrada@uacj.mx
Dr. Pavel Roel Gutiérrez Sandoval	1. Technical-experimental unit in speech therapy, lexical semantics, and musical didactics 2. Film education 3. Applied musical education 4. Tent-laboratory of circus arts 5. Cuban psico-ballet	pavel.gutierrez@uacj.mx
Dr. Jorge Alberto Ordoñez Burgos	Greco-egyptian magic, medicine, and phylosophy	jordonez@uacj.mx
Dr. Fernando Sandoval Gutiérrez	Education for quality life	fernando.sandoval@uacj.mx
Dr. Guadalupe Santiago Quijada	Computer vision and augmented reality	gsantiag@uacj.mx
Dr. Flor Urbina Barrera	Migration and families in the Americas	flor.urbina@uacj.mx



Humanities and Behavioral Sciences

Researcher name	Research project	Contact
Ma. Eugenia Hernández Sánchez	Cultural Patrimony Border	marherna@uacj.mx



Social Sciences and Economy

Researcher name	Research project	Contact
Dr. Oscar Javier Montiel Méndez	Entrepreneurship and family business	oscar.montiel@uacj.mx
Dr. Raúl Holguin Ávila	Social-spatial segregation in inhabitants of housing of social interest in the Southwest of Ciudad Juárez	raul.holguin@uacj.mx
Dr. Blanca Lidia Márquez Miramontes	1. Intellectual capital in industrial MSMEs 2. Competitiveness in manufacturing organizations through industrial knowledge management models	bmarquez@uacj.mx
Jorge Luis Sosa	Evaluation of Social Policies for immigration, implemented by the local government of Ciudad Juárez for the Cuban immigrants.	jorge.luis@uacj.mx
Esther Guadalupe Carmona Vega	Influence of financial performance of socio-emotional wealth, competitiveness and innovation, and entrepreneurial orientation of Latin American companies.	esther.carmona@uacj.mx
Alfredo Limas Hernández	Gender education and citizenship construction	alimas@uacj.mx

Engineering Sciences

Researcher name	Research project	Contact
Dr. Luis Asunción Pérez Domínguez	Pythagorean fuzzy sets and multic-riteria decision-making	luis.dominguez@uacj.mx
Dr. Santos Adriana Martel Estrada	Synthesis and applications of physico-chemical properties of nanopolymers for Medical use	adriana.martel@uacj.mx
Dr. Francisco López Orozco	1. Implicit relevance feedback of texts during information search through eye tracking 2. Artificial intelligence for enhancing social robots 3. Eye tracking aplications and experimentation 4. AI and data science	francisco.orozco@uacj.mx
Dr. Noe Gaudencio Alba Baena	Implementation of engineering tools and Lean-Sigma in MSMEs	nalba@uacj.mx
Dr. Humberto de Jesús Ochoa Domínguez	Phantom simulations to train deep networks in image reconstruction applications for nuclear medicine	hochoa@uacj.mx
Dr. Juan Miguel Díaz Mendoza	Development of polymeric compounds with sustainable materials	juan.diaz@uacj.mx
Dr. Luis Carlos Mendez González	Automatization of a system for control of supplies	luis.mendez@uacj.mx
Dr. Abimael Jiménez Pérez	Development of embedded systems in FPGAs for electronic interrogation applications in electro-optical sensors	abimael.jimenez@uacj.mx



Engineering Sciences

Researcher name	Research project	Contact
Diana Maria Carrillo Flores	Development of nanostructures fibers of NiCo2O ₄ , LiTeZn , LiCo2O ₄ , ZnCo2O ₄ , FeCo2O ₄ for applications in energy storage synthesized by electrospinning.	diana.carrillo@uacj.mx
Humberto Ochoa Domínguez	Front End for a microcalcification detection system in digital mammography	hochoa@uaj.mx
Luis Carlos Méndez González	Design of industrial interfaces using Python	luis.mendez@uacj.mx
Juan Luis Hernández Arellano	Design and evaluation of passive exoskeletons	luis.hernandez@uacj.mx
Angel Israel Soto Marrufo	Design and Control of robots using brushless motors	angel.soto@uacj.mx



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