

5TH EUGLOH ANNUAL STUDENT RESEARCH CONFERENCE

17-19 December 2024
University of Alcalá



PhD
students

Plenary sessions

Oral and poster
communications

Organize by
University
of Alcalá
(Spain)



Participation
of University
of Porto
(Portugal)

Teamwork
activities





5TH EUGLOH ANNUAL STUDENT RESEARCH CONFERENCE
17-19 December 2024

The University of Alcalá will host the EUGLOH Annual Student Research Conference in Alcalá, Spain. The event is open to all PhD students from all fields: Arts and Humanities, Sciences, Health Sciences, Social and Legal Sciences, and Engineering and Architecture to present their research work.

CONFERENCE ORGANIZING COMMITTEE

Francisco Javier Salas
Ignacio Rodríguez Álvarez
Ruth Arranz Jimeno
Irene Heredero Bermejo

SCIENTIFIC COMMITTEE

Francisco Javier Salas
Ignacio Rodríguez Álvarez
Irene Heredero Bermejo
Francisco Javier de la Mata
Cristina Tejedor Martínez

PARTICIPATING MEMBER UNIVERSITIES OF THE EUGLOH ALLIANCE

University of Porto

Conference Program

Tuesday 17th December 2024

11:00 – 12:30	Poster placement	Main hallway, Faculty of Arts
12:00 – 13:00	Registration	UAH Rectorate building
13:15 – 14:00	Guided tour	“Colegio Mayor de San Ildefonso” Meeting point: Rectorate building (Main entrance)
14:15 – 15:15	Lunch	UAH Rectorate building (Restaurant)
15:45 – 16:00	Welcome session Dr. Francisco Javier de la Mata, Vice-Rector for Research and Transfer. University of Alcalá. Dr. Francisco Javier Salas Rey, Director of the Doctoral School. University of Alcalá. Dr. Julio Cañero Serrano, Vice-Rector for International Relations. University of Alcalá.	Salón de Actos, Faculty of Arts
16:00 – 17:00	<u>Plenary I: Research skills</u> Dr. Francisco Javier de la Mata, Vice-Rector for Research and Transfer. University of Alcalá	Salón de Actos, Faculty of Arts
17:00 – 17:30	Coffee	Canteen, Faculty of Arts
17:30 – 19:00	Poster session	Main hallway, Faculty of Arts

Wednesday 18th December 2024

9:00 – 10:15	<u>Plenary II: Artificial Intelligence</u> Dra. María del Pilar Martín Martín, Associate Professor. Signal Theory and Communications. University of Alcalá	Salón de Grados, Faculty of Law
10:15 – 10:45	Coffee	Hallway, Faculty of Law
10:45 – 12:45	Oral presentations	Salón de Grados, Faculty of Law
13:00– 14:00	Lunch	Hallway, Faculty of Law

14:15 – 15:15	Teamworking: evidence-based research Dr. Gregorio Sánchez Marín, Professor. Business Organization. University of Alcalá	Salón de Grados, Faculty of Law
15:30 – 18:30	Teamwork activities (Group A) D. Antonio Méndez Guzmán Consultor Senior, Executive Coach	Room 9B, Faculty of Law
15:45 – 17:30	Visit: Alcalá de Henares (Group B)	Meeting point: Faculty of Law (Entrance)

Thursday 19th December 2024

9:00 – 10:30	<u>Plenary III: Doctoral education and Time management</u> Dr. João Pedro Pêgo, Assistant Professor. University of Porto Dr. Manuel Firmino da Silva Torres, Professor Auxiliar. University of Porto	Salón de Grados, Faculty of Law
10:30 – 11:00	Coffee	Hallway, Faculty of Law
11:15 – 13:15	Oral presentations <i>Parallel session A</i> <i>Parallel session B</i>	Salón de Grados, Faculty of Law Aula 17, Faculty of Law
13:30 – 14:30	Lunch	Hallway, Faculty of Law
14:45 – 17:30	Teamwork activities (Group B) D. Antonio Méndez Guzmán Consultor Senior, Executive Coach	Room 9B, Faculty of Law
15:15 – 17:15	Visit: Alcalá de Henares (Group A)	Meeting point: Faculty of Law (Entrance)
18:00 – 19:00	Closing Reception Dr. Francisco Javier de la Mata, Vice-Rector for Research and Transfer. University of Alcalá	UAH Rectorate building (Restaurant)

17 December 2024

POSTER SESSION

P-A1 María Teresa Agulló Baldó, University of Alcalá.

The Levelling Effect of CLIL: A Study of the Development of Executive Functions through Bilingualism in CLIL as a Means towards Academic Excellence amongst Students of Low SES

P-A2 Susana Dimas Cintas, University of Alcalá.

Multimodal Analysis of Emotional Discourse in Spanish/L2 Learners

P-A4 Irene Fuentes Pérez, University of Alcalá.

Digital Transformation in Translation Project Management in Spain: A Study on Professional Adaptation and Training Needs

P-A5 Mattia Ronconi, University of Porto.

GRAFFIMOTION - Designing Animation Strategies towards a Documentary on Urban Art in Porto

P-A6 Raúl Óscar González-Pacheco García, University of Alcalá.

The performance of the Spanish Air Force in the Second World War

P-A7 Iakov Podolnyi, University of Alcalá.

Hebraica ueritas in Fray Luis de León's 'Exposición del Libro de Job': towards a definition of strategies on the crossroads of philology, theology and poetry

P-So1 Patricia Acebes Tamargo, University of Alcalá.

Fighting Climate Change with KlimaDao

P-So2 Yu-Jui Cheng, Ludwig-Maximilians-Universität München.

A systematic review of teachers' emotions on educational outcomes

P-So3 Tongxuan Gao, University of Alcalá.

Gender Discrimination in Employment of Chinese Women

P-S1 Adrián Enrico Baissero García, University of Alcalá.

Terrestrial LiDAR Data for Structural Variable Estimation and Biomass Consumption through Radiative Transfer Models

P-S2 Siham Bouaouiz Idrissi, University of Alcalá.

Gold nanoparticles functionalized with polyphenolic and carbosilane dendrons: study of antioxidant and antibacterial activity

P-S3 Ana Gómez Bra, University of Alcalá.

Targeting G-Quadruplexes: Insights into Novel Phenanthroline-based Ligands and Their Binding Mechanisms

P-S4 Abdulrahman Alhagri, UiT – The Arctic University of Norway.

Single-layer Terminated Vertical Graphene Nanosheets Synthesis and Applications

P-S5 Clara Gómez Serrano, University of Alcalá.

Synthesis of carbosilane dendrimers decorated with anti-neurodegenerative drug on the structure

P-S6 Mariah Harris, Université Paris-Saclay.

Optical Biosensors for the Detection of Bacteria

P-S7 María José López Caro, University of Alcalá.

Characterizing hotspots and coldspots of forest drought-induced decay in the Iberian Peninsula using LiDAR and multispectral UAV data at individual tree level

P-S8 Laura Madrid González, University of Alcalá.

Vehiculation of aptamers with anticancer activity through dendritic platforms: evaluation of their therapeutic potential

P-S9 Francisco Javier Palomero Hernández, University of Alcalá.

Alternative materials to gelatin for the shell formula of soft capsules

P-S10 David Rincón Montón, University of Alcalá.

Proteins extraction from aqueous media by dendronized magnetic nanoparticles

P-S11 Samuel Takvor Mena, University of Alcalá.

Improving the biological activity of metallocomplexes through dendrimer conjugation

P-HS1 Luis Carmona Rosado, University of Alcalá.

Influence of the obesogenic urban context on child health: the SUECO study

P-HS2 Sheng-Hsin Huang, Ludwig-Maximilians-Universität München.

The dynamic evolution of precision medicine innovation ecosystem and innovation network in Taiwan

P-HS3 Marta Durán Martínez, University of Alcalá.

Targeting chronic kidney disease through new small molecules modulating the pseudokinase integrin-linked kinase

P-HS4 Faiza Shahid, Ludwig-Maximilians-Universität München.

A systematic review of validated potentially inappropriate medication lists: Focus on clinically relevant drug-drug interactions in primary care

P-HS6 Nadia Aftab, UiT – The Arctic University of Norway.

Differential Cultivability of Staphylococcus aureus subpopulations in different growth environments. Exploring growth heterogeneity and cell density dependence in isogenic bacterial populations

P-HS7 Eloísa García Porcel, University of Alcalá.

Activity of dendritic systems against Candida spp. biofilms: in vitro activity, structural alterations, mode of action and resistance induction

P - HS8 Yuliia Fatych Boboshko, University of Alcalá.

POLQ immunostaining behaves as a prognostic factor for pancreatic carcinoma

P-HS9 Stefan Janičić, University of Novi Sad.

The significance of determining the intraoperative level of parathormone during surgical treatment of hyperparathyroidism

P-HS11 Manuel Flores Sáenz, University of Alcalá.

Hematological and tissue analysis of wear debris during the use of CoCr functionalized with reduced graphene oxide for joint prosthesis applications: in vivo response

P-HS12 Sandra Aulia Mardikasari, University of Szeged.

Intranasal delivery of in situ mucoadhesive gel of Amoxicillin: ex vivo mucosal permeation and retention studies

P-HS13 Thomas Eliot Hobbs, Université Paris-Saclay.

The effect of endurance exercise training and passive heat acclimation on plantaris muscle glucose metabolism in rats

P-HS17 Rajmund Attila Kasbauer, Medical University of Vienna.

Bacterial strain-level analysis reveals distinct innate activation pattern in human macrophages and dendritic cells

P-E1 David Carrascal Acebron, University of Alcalá.

Advancements in enabling technologies for programmable and software-defined networks: paving the way to 6G

P-E2 Alejandro García Requejo, University of Alcalá.

Indoor device-free localization using non-intrusive ultrasonic sensors

P-E3 Rubén Gil Vera, University of Alcalá.

Visible light-based indoor navigation system: a mobile app for the Guadalajara Museum

P-E4 Víctor Pablo Prado Sánchez, University of Alcalá.

Zero-shot classification of Dark Web content using GPT-3.5: Performance evaluation and classifier error analysis

P-E5 Danial Zare, University of Alcalá.

Effective approaches for the analysis of heterogeneous sources of information on labour market based on skills frameworks

18 December 2024

ORAL PRESENTATIONS I

O-S1 Luis Carlos Fernández Clavero, University of Alcalá.

Light-Responsive Systems for Controlled DNA Assembly and Release

O-S2 Diego Jaraba Cabrera, University of Alcalá.

Preparation of CO₂-derived Brush Polymers with Chiral Amino Acid Functionality

O-S9 Triet Nguyen Dai Luong, Lund University.

Anion exchange membrane fuel cells and water electrolyzers: technologies for a green future

O-HS2 Claudio Díaz García, University of Alcalá.

Fecal microbiota transplantation alters the proteomic landscape of inflammation in HIV: identifying bacterial drivers

O-HS9 Berta Valente, University of Porto.

Socioeconomic inequalities in obesity among portuguese adults: evidence from the 2005, 2014, and 2019 National Health Surveys

O-HS10 Maximilian Pichler, Medical University of Vienna.

"Backtoclinic II": Strategies and Outcomes in Re-engaging Lost to Follow-Up PKU Patients in Austria

O-A2 Silviya Damyanova Radeva, University of Alcalá.

Interpreting in mental health settings in Spain: the vision of mental health specialists on multicultural therapies

O-E1 María Rosa Villalba Yépez, University of Alcalá.

Application of Intensive Microalgae Cultivation to Architectural Elements: Photobioreactors as a Means of Sustainable Development in Urban Construction

O-E2 Violeta Stefanović, University of Novi Sad.

The multifamily housing complexes of socialist Yugoslavia – a new form of collective city life for a new society and its communities

O-E3 Laura de Diego Otón, University of Alcalá.

Preliminary Findings in Forecasting Appliance Usage Patterns for Improved Remote Health Monitoring

O-E4 Carlos Gutiérrez Álvarez, University of Alcalá.

Visual Semantic Navigation

O-E5 Marina Cosmin Madalin, University of Alcalá.

Explainability of Heat Waves: a Multivariate Autoencoder flow-analogue method (MvAE-AM)

19 December 2024

ORAL PRESENTATIONS II

Parallel A

O-So1 Åsne Astrid Wassvik Lindahl, The Arctic University of Norway.

Working with families with low socio-economic status: What promotes collaboration?

O-So2 Edouard Munezero, University of Szeged.

Teacher Resilience through the Lens of Assessment Instruments

O-So3 Raquel García-Donas Guerrero, University of Alcalá.

Estimation of the interest rate time structure and volatility time structure.

O-So4 Sonia Delali Acheampong, The Arctic University of Norway.

Unpacking Service Coordination: barriers, strategies and insights from Norway and Spain.

O-So5 Daniela Sofia Faria Marques, University of Porto.

DeBurnout: Review of designers' contribution to the mental health of healthcare professionals.

O-A3 Xiaoyang Wu, University of Alcalá.

Representation of gender violence in the literature of the unusual in the Southern Cone.

O-A4 Anicet Christina Donfack Sounna, University of Alcalá.

The border has a child's face: The child as migrant subject and its representation in Matteo Garrone's Yo Capitán and Sonia Nazario's La travesía de Enrique.

O-A5 I Wayan Eka Dian Rahmanu, University of Szeged.

EFL Classroom Settings: behavioral intention of using spherical video-based immersive virtual reality in learning English language

O-A6 Gladys Angélica Morúa Álvarez, University of Alcalá.

English learning experiences of students over 50 years of age, success factors, characterization and ICT mediation: a case study.

O-A7 Mantong Zhao, University of Alcalá.

Communication, social cultural context and communicative competence.

O-A8 Miklós Fehér, University of Novi Sad.

Post-war trauma literature in the Balkan region's prose fiction

Parallel B

O-S3 Đurđica Karanović, University of Novi Sad.

Photocatalytic and adsorptive properties of Zn-LDH based mixed oxides for wastewater remediation

O-S4 Esther Mula Herrero, University of Alcalá.

Synthesis of sustainable additives via catalytic ROP of BBL with enhanced properties for biomedical applications

O-S5 Álvaro Nicolás Prieto, University of Alcalá.

Design of a graphene-based biosensor for the detection of therapeutic molecule passage through the blood-brain barrier

O-S6 Ana Rita Fernandes Sousa Pereira, University of Porto.

The impact of parabens on drinking water bacterial communities

O-S7 Christian Rentero Llorente, University of Alcalá.

Inside the key factors affecting the piezoelectric response of poly-L-lactic acid electrospun fibers

O-S8 Marina Rodes Blanco, University of Alcalá.

Unveiling the role of spatial resolution, spectral resolution and forest structure in detecting forest decline in Mediterranean scots pine forests using satellite imagery

O-HS4 John Karemera, University of Szeged

Antifungal activity of γ -core peptide derivatives of Ascomycetous antifungal proteins

O-HS5 Carlos Rescalvo Casas, University of Alcalá.

Risk factors and antimicrobial resistance in co-infections of COVID-19 among hospitalized patients: A 2020-2021 analysis

O-HS7 María Ruth Agnoli, University of Alcalá.

Reliability and validity analysis of the test: oral health knowledge questionnaire in pregnant women

O-HS8 Marcos Hernando Gozalo, University of Alcalá.

Study of the antimicrobial activity of ibuprofen cationic carbosilane dendron against extended-spectrum beta-lactamase-producing Escherichia coli