Research Groups
@
Kadir Has University

13.02.2025

KADIR HAS UNIVERSITY
PIC : 999891133
OID : E10209068

Founded in 1997, is one of the leading mid-size universities in Turkey. With an exceptional academic staff and a wide range of educational opportunities, as well as high levels of cooperation, interaction, and research capabilities coupled with strong international connections and a dedication to development,

Kadir Has University is committed to research and innovation and has already made to the **THE WORLD UNIVERSITY RANKING** of 2024 as a Research University. KHAS is ranked 8th in Turkey and listed in the top 1000 Universities worldwide according to the Times Higher Education Index, a prestigious ranking that reflects our commitment to academic excellence and global impact.

At Kadir Has University, we are dedicated to attracting new researchers from Europe and the surrounding regions, aiming to become a leader in higher education in Turkey. Our team comprises around 230 academic and 200 administrative staff members, all contributing to our mission of academic excellence. The School of Graduate Studies offers 32 Master's and 15 Doctoral degree programs, providing our students a wide range of educational opportunities.

Our commitment to academic excellence is evident in our performance evaluation system. Faculty with doctorate degrees must lead at least one research project and publish in Q1 journals annually. This policy has significantly boosted our success in international and national funding and indexed publications over the past six years. We have also excelled within the European Commission's framework programs. Notably, four of these international project coordinations are led by female researchers, a testament to our commitment to gender equality.

Furthermore, the White Doves scholarship program, organized by the university to support the education of female students facing challenges, highlights KHAS's dedication to gender equality and serves as a model of positive discrimination for women.

KHAS has significant experience in the management and delivery of EU-funded projects. Under Horizon 2020, we have contributed to eight projects, with four as coordinators and four as partners; under Horizon Europe, we are involved in five projects, three of them as coordinators.

KHAS has a separate building housing 8 research centers and the Directorate of R&D Resources. Kadir Has University also has a Technopark, established on April 11, 2023, through a partnership between Kadir Has University, Silivri Municipality, and Kadir Has Foundation, it is a technology development zone where companies and entrepreneurs develop technological products and services that do not harm resources for future generations. The acceptance of companies by Kadir Has University Technopark, which will host entrepreneurs, is still ongoing.

Kadir Has University
Faculty (5 +1) & Departments

Faculty of Law

https://law.khas.edu.tr/en/

Faculty of Economics, Administrative and Social Sciences

https://feas.khas.edu.tr/en/

Business Admin.
Economics
International Relations
Int. Trade & Finance
Management Inf. Systems
Political Science
Public Administration
Psychology

Faculty of Communication

https://comm.khas.edu.tr/en/

Visual arts & design
Public Relations
Radio, TV & Cinema
Advertisement
New Media

Faculty of Engineering and Natural Sciences

https://fens.khas.edu.tr/en/

Civil Eng.
Computer Eng.
Electric & Electronics Eng.
Industrial Eng.
Mechatronics Eng.
Molecular Biology & Genetics Eng.

Faculty of Arts and Design

https://fad.khas.edu.tr/en/

Architecture
Industrial Design
Interior Architecture & Environment Design
Thetre

Core Programme

https://core.khas.edu.tr/en/

Horizon Europe Work Packages

mostly related to our research groups;

WP2 – MSCA : Mostly Doctoral Networs (all faculties). Also Staff Exchange programs can be an option
WP4 – Health : Tools and technologies destination (Engineering departments)
WP5 – Culture, Creativity & Inclusive Society: Numerous applications can be submitted from KHAS to all the destinations
WP6 – Civil Security : Cyber Security calls are highly applicable. Also we have researchers working on “Border security”.
WP7 – Digital Industry : For the destinations DATA, TWIN TRANSITION, HUMAN (Engineering departments & MIS)
WP8 – Climate, Energy & Mobility : Sustainable Energy Research Center, Engineering Departments also the department of Economy
WP11 – Widening : There may be various applications from different faculties and the Research Centers

Center for Energy and Sustainable Development (CESD)

The Center for Energy and Sustainable Development (CESD) brings together energy experts from many different fields and disciplines to conduct interdisciplinary educational and research activities that focus on energy-related issues that affect Turkey and its surrounding regions. The center seeks to share the information, commentary, and analyses that emerge from these activities with both a national and international audience and help contribute to sustainable economic development.

Web page : https://cesd.khas.edu.tr/en
Profile document : CESD.pdf
Lead researcher : Prof. Volkan Ediger

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The Gender and Women's Studies Research Center

The Gender and Women's Studies Research Center at Kadir Has University aims to create an intellectual locus for interdisciplinary research, teaching and institutional change related to gender equality. As one of our goals, we seek to critically re-examine discussions of equality and gender as they pertain to the status of women, while bearing in mind that the field is not limited to male and female prototypes but also includes lesbian, gay, bisexual, transgender and intersex (LGBTI+) individuals. We are specifically interested in creating change that is systemic and sustainable.

Web page : https://gender.khas.edu.tr/en
Profile document : GenderStudies.pdf
Lead researcher : Prof. Mary Lou O'Neil
EC projects of the group : SAGE, GenderEX, BudgetIT!

Center for Cybersecurity and Critical Infrastructure Protection (CCIP)

Based on its multidisciplinary team, KHAS_CCIP approaches Cybersecurity-related research and application issues (e.g. attacks, vulnerabilities, defence, etc.) with an innovative and unconventional methodologies in principal. In that respect, CCIP's mission is to develop innovative methods, tools, and strategies to detect, identify, and mitigate all types of cybersecurity related threats for institutions, companies, and nationally important industrial control systems. More importantly, since "human remains as the weakest link" in cyber security chain, training and education located at the heart of Centre's mission.
Reaching scientific excellency is one of the headline goals of KHAS_CCIP. Thus, R&D activities are divided into three main activity areas: Solutions towards industry and scientific community, trainings for researchers and professionals, and capacity building and networking.

Web page : https://ccip.khas.edu.tr/
Profile document : CCIP.pdf
Lead researcher : Prof. Hasan Dağ
EC projects of the group : CyberMACS

Green Economy Analytics Research Group

Green Economy Analytics is a joint initiative of academics whose objective is to advance our knowledge and engage in research for promoting a **sustainable, inclusive and a just circular economy** in Turkey and the global level at large, that **respects the limits and constraints of our planet's natural resources** and its **biodiversity.** Led by A. Erinç Yeldan,Professor of Economics from **Kadir Has University**, İstanbul, the group comprises scholars both from Kadir Has as well as from leading prominent universities such as Boğaziçi U., Middle East Technical University, Istanbul Technical University, as well as technical personnel from the Ministries of Industry and of Environment & Urban Planning, and independent researchers.

The *Analytics* group has solid experience in quantitative methods ranging from applied general equilibrium modeling –both of the CGE as well as the Cass-Koopmans-Ramsey variety; input-output analysis; VAR econometrics, to command of *big data*. A key **working hypothesis of the group** is that *the projected lack of decoupling between growth and* resource use and environmental quality *is mostly driven by the dualistic and uneven patterns of growth, excessively unregulated and fossil fuel-driven industrialization pathways, and stratified geographies based on ethnicity, race, and irregular migration*. It is our contention that *sustainability, inclusiveness, and social justice* based on *participatory democratic institutions* must be at the core of each systemic and cross-sectoral strategy.

Profile document : GreenEconomyAnalytics.pdf
Lead researcher : Prof. Erinç Yeldan
EC projects of the group : FINANCE4GREEN

Moral Intuitions - MINT Research Group

Moral Intuitions Lab (the MINT Lab) is a psychology research laboratory led by Dr. Onurcan Yılmaz at Kadir Has University, Istanbul. We are a very dynamic and productive research group consisting of senior researchers, graduate, and undergraduate students. We study the intersection between morality, politics, religion, and decision making. More specifically, we use a cognitive and psychological science perspective to study the influences of intuitive and reflective decision-making processes on various belief systems. Our lines of research include, but not limited to: The content of morality, the cognitive roots of moral judgment and behavior, the consequences of resource scarcity, the consequences of moral intuitions, morality and religion, and cognitive style (analytic, intuitive, and holistic thinking).

We strongly advocate and strive to implement the high standards of open science. We use new tools such as pre-registration and registered reports in our work; we take care to share our data and analytic code to achieve reproducibility; we conduct replications; and we contribute to international collaborative projects that aim to widen the database of psychological science beyond the WEIRD (Western, Educated, Industrialized, Rich, and Democratic) nations. Our research also increasingly aims to contribute to responses to current societal challenges.

Web page of the lab : https://www.moralintuitionslab.com/
Profile document : Moral IntuitionsLAB.pdf
Lead researcher : Assoc. Prof. Onurcan Yılmaz

Center of Computational Structural Biology (CCSB)

CCSB is focused on the application of computational tools and development of new algorithms to understand the biological mechanism of complex diseases at **molecular level**. The main research topic of our center revolves around the **structure and dynamics of proteins** which play a key role in all human diseases. We believe collaborations between computational groups like ourselves and experimental groups can contribute more to understanding these complex systems and ultimately **creating novel drugs**.
We are especially specialized in structural modeling of membrane receptor-ion channel complexes using enhanced **homology modeling techniques** as well as studying the activation mechanism upon ligand binding. We have strong experience on modeling of pentameric, **nicotinic acetylcholine receptors**, and tetrameric, **glutamate receptors**, ligand gated-ion channel proteins. Theoretical approaches such as normal mode analysis, molecular dynamics simulations, rigid body dynamics, and the analysis of the resulting trajectory by principal component analysis are some of the techniques which are frequently used in our group.

Profile document : CCBB.pdf
Lead researcher : Prof. Kemal Yelekçi

Sustainable Agriculture and Rural Development Research Group

Research Group for Sustainable Agriculture and Rural Development is a joint initiative from the Kadir Has University and associated partners from academia, civil society and private sector. The group brings together expertise in agricultural economics, rural sociology, engineering. We are actively working towards developing policies, technologies and models in the interests of increasing bio-diversity, climate neutral farming economies and the sustainable development of rural communities.

Our main objective is to promote regenerative and conservative agriculture, bio-circular practices, and rural development, by means of developing suitable smart technologies, sound institutional models and evidence-based policies. We emphasize the development of climate-oriented and poverty-alleviating approach addressing the challenges of the rural poverty abd low-productivity of the agriculture of developing economies. Aligning the farmer incentives with the perspective of the agri-food industry is key to enhance transformative change in the life of rural communities, which operate in an increasingly uncertain global economic environment and climate change. We prioritize both the interests of higher productivity and enhanced equity while striving to suggest low-carbon, efficient farming systems.

Profile document : SustainableAgriculture.pdf
Lead researcher : Asst. Prof. Ulaş Karakoç

Equality, Diversity and Inclusion Research Group

The Equity, Diversity and Inclusion research group is a collective of academics based at Kadir Has University whose work encompasses, at least in part, the examination of diversity-related issues. Our group is comprised of academics from a range of disciplines, including sociology, economics, law, psychology, communications and engineering, as well as gender studies.

Many of us initially concentrated our research on gender-related matters but subsequently expanded our scope to encompass intersectionality and a more comprehensive range of diversity and inclusion issues. It is our contention that the creation of diverse academic environments is not only beneficial for the individuals involved, but also leads to the generation of superior research outcomes. A research project that lacks a diversity perspective is, by definition, incomplete and therefore lacking in certain respects. **Our objective is to incorporate this perspective into our own research and to assist others in developing a similar approach.**

At Kadir Has University EDI research group, we believe that diversity, equity, and inclusion are vital for promoting scientific progress and forming the foundation of a flourishing and supportive academic research environment.

Profile document : EDI.pdf
Lead researcher : Prof. Mary Lou O'Neil

Artificial Intelligence Research Group

KHAS-AI is a **multidisciplinary** research group with members from engineering (Electrical, Computer, Industrial), bioinformatics and data science fields. We are focused on the application of computational intelligence algorithms for the development of smart solutions. The group develops state of the art solutions using **machine learning** (statistical methods, neural networks, deep learning, CNN and LSTM networks), **Big Data** processing, embedded **IoT** systems, network science, and **optimization** methods for various problem domains such as **indoor/outdoor localization, spatio-temporal environmental anomaly detection, segmentation, risk prediction, epidemic modeling, emergency response and disaster relief management.** Those activities are complemented by **hardware** (microcontrollers, wearable gadgets) and **software** (web and mobile) development. We believe that collaborations with our group can contribute substantially to the development of **novel data driven methods for effective smart systems with special emphasis on the problems of the society.**

Profile document : AI.pdf
Lead researcher : Dr. Selçuk Öğrenci

Recent European Framework Projects

ERC Starting Grant – Staging Abjection

Grant agreement ID: 852216
Researcher : Dr. Rüstem Ertuğ Altınay
Web page : https://stagingabjection.com/
Total Budget : 1.429.460 EUR
CORDIS link :https://cordis.europa.eu/project/id/852216

How has theatre served the processes of national abjection in Turkey and its diasporas? How have abjected minorities used theatre to negotiate the politics of belonging? To answer these questions, the EU-funded STAGING-ABJECTION project will apply a transdisciplinary theoretical and methodological framework to study the role theatre has played in the constitution of the Turkish nation and its 'others'. Based on mainstream and alternative archives and ethnographic research methods, the research will span from the mid-19th century to contemporary productions. The focus will be on productions about the Armenians after 1915 and sexuality and national identity in queer dramas, as well as Islamic, Sephardic Jewish and Alevi theatres in Turkey and Europe.

MSCA RISE – AI4LABOUR

Reshaping labour force participation with Artificial Intelligence

Grant agreement ID: 101007961
Researcher : Prof. Dr. Meltem Ucal (Coordinator)
Total Budget : 713.000 EUR
CORDIS link : https://cordis.europa.eu/project/id/101007961

Research regarding the future of work suggests that 30 % of the hours worked globally could be automated by 2030. Focussing on the impact this will have on jobs and skills, the EU-funded AI4LABOUR project aims to predict the types of occupations that will appear in the future and the skills these will require as well as the training needed to gain these skills. To achieve this, the project will design a novel artificial intelligence skill-based model and a skill development methodology. The project's work will create the foundation for a web portal that links role, skill and learning recommendations for all actors.

MSCA RISE – CONSIDER

Sustainable Management of Industrial Heritage as a Resource for Urban Development

Grant agreement ID: 101008186
Researcher : Prof. Dr. Yonca Erkan (Coordinator)
Total Budget : 1.311.000 EUR
CORDIS link : https://cordis.europa.eu/project/id/101008186

Industrial heritage sites (IHS) are an important part of our cultural, social and technological past, contributing to the identity of a place. The EU-funded CONSIDER project aims to develop sustainable management models for industrial heritage sites at a time when challenges due to deindustrialisation processes are on the rise. The models will not only provide communities with an invaluable resource but also help strengthen collective identities and improve the urban landscape, among other key benefits. At the same time, the project will explore participatory governance models to shed light on the integration of IHS with European society.

H2020 TWINNING – GenderEX
Gender for Excellence in Research

Grant agreement ID: 952432
Researcher : Prof. Dr. Mary Lou O'Neil (Coordinator)
Web site : http://genderex.eu/
Total Budget : 893.146 EUR
CORDIS link : https://cordis.europa.eu/project/id/952432

The gender dimension is often neglected in many scientific fields. This is the case in Turkey, where gender studies have not yet been established. Furthermore, Turkey ranked at the bottom of the World Economic Forum's Global Gender Gap Report in 2018. Early-stage researchers who wish to embark on gender studies have few opportunities to do so in Turkey. The EU-funded GenderEX project aims to change this by establishing networks, exchanging knowledge and engaging best practices in the field of gender research. The project will develop the Gender and Women's Studies Research Centre at Kadir Has University as a site of research excellence in this domain.

Horizon Europe WIDENING – BUDGET IT!

Building Gender Equality through gender budgeting for Institutional Transformation

Grant agreement ID: 101094391
Researcher : Prof. Dr. Mary Lou O'Neil (Coordinator)
Web site : https://budget-it.eu/
Total Budget : 999.235 EUR
CORDIS link : https://cordis.europa.eu/project/id/101094391

Increasing women's representation in leadership and decision-making is a priority in many sectors. Achieving a gender balance in research institutions in Bosnia, Serbia and Turkey is a priority for the EU-funded BUDGET IT project. Assisted by leading universities in Spain and Italy, the project will use gender+ budgeting as a tool to advance gender equality plans, which are often implemented without the necessary commitment of resources. In this context, the project will integrate gender+ budgeting into the gender equality plans. It will also develop planning that is tailored and inclusive. By the end of the project, partner institutions will have produced an integrated, inclusive gender+ equality plan and gender+ budget.

Horizon Europe – MSCA Doctoral Network
BeyondTheEdge Higher-Order Networks and Dynamics

Grant agreement ID: 101120085
Researcher : Dr. Deniz Eroglu (Partner)
Total Budget : 2.553.729 EUR
CORDIS link : https://cordis.europa.eu/project/id/101120085

The doctoral network BeyondTheEdge will identify the role of nonpairwise higher-order interactions in the emergence of complex dynamical behaviour of networks of interacting units. BeyondTheEdge brings together key researchers in an international network that is interdisciplinary (from mathematics to neuroscience) and intersectorial (including academia, private research institutes, and industry) to develop new mathematical insights relevant for real-world problems. BeyondTheEdge will train a cohort of 10 PhD students through research, education, and complementary skills training. This will enable the PhD students to innovate, collaborate, and become leading professionals in academia, industry, or the public sector: Innovative training activities will ensure that all PhD students can apply their skills beyond the academic context and put them in perspective of the wider world. Supervisor training activities ensure that the more junior project partners can shape the PhD education of the future. Thus, BeyondTheEdge will make a lasting contribution that will far outlive the duration of the project.

Horizon Europe
Reviving, Boosting, Optimising and Transforming European Film Competitiveness - REBOOT

Grant agreement ID: 101094796
Researcher: Assoc. Prof. Melis Behlil (Partner)
Total Budget: 3.823.688 EUR
CORDIS link : https://cordis.europa.eu/project/id/101094796

This project aims to connect the existing strengths, identify and overcome weaknesses and plan for future competitiveness in the fields of policy, practice and experience. More concretely, the project's objectives are, on the one hand, to explore the long-standing strengths and pervasive gaps in European competitiveness and policies for competitiveness This includes ways of 'measuring' 'analysing' and 'evaluating' the impact of policies and strategic pathways. On the other hand, the project aspires to place attention to the active preparation for the future in the area of audiences by exploring audience preferences and their generation, as well as modes of film content production. The latter are elements which today's youth will carry and engage with in the coming decades as makers and consumers, as well as industry and policy leaders. Therefore, the consortium interrogates not only the 'what is' but also the 'what has been' and 'what will be' with fresh lenses.
REBOOT's ambition is to provide a full set of knowledge of the European film industry, which maximises its existing strengths, combined with strategic and tactical dimensions of action for the optimisation of the potential held in European youth publics, understood both as emerging audiences and as citizens.

Horizon Europe – MSCA Staff Exchange
FINANCE4GREEN - Financing for Green Transition

Grant agreement ID: 101183099
Researcher : Prof. Dr. Erinc Yeldan
Total Budget : 423.200 EUR
CORDIS link : https://cordis.europa.eu/project/id/101183099

As the urgency of the anthropogenic climate crisis becomes more explicit, greening of the global financial system steps ahead in our agenda, central banks being no exception. In fact, pathways to a net zero emissions global economy are relatively well-studied and understood. Yet, many of these studies focused mostly on green transition of the power sector and decarbonization of the industry, while financing of this transition and, particularly the potential role of the central banks, is a relatively neglected area in the design of the green policy infrastructure. Thus, there is clearly an unavoidable need to deepen our knowledge on the design of a “green central bank”, that is, in the words of Dikau & Volz, 2018, a central bank that takes environmental risks including climate change into consideration in its actions. It is the purpose of this research consortium to study the potential of greening of the monetary policy instruments, and set the stage for a new policy environment conducive to the struggle against climate change."

Erasmus Mundus Project : CyberMACS
Master of Applied Cybersecurity

Call : ERASMUS-EDU-2022-PEX-EMJM-MOB
Researcher : Prof. Hasan Dağ
Web site : https://cybermacs.eu/
Total Budget : 5.484.888 EUR

CyberMACS is an Erasmus Mundus Joint/double Master's Degree (EMJM) programme in Applied Cybersecurity offered by a consortium of three highly ranked universities in Turkey, Germany, and North Macedonia. During the two-year MSc studies, students will study at two consortium universities and graduate from both. Our industry partners promote the future employability of CyberMACS students by offering internship, company visits, and contributions to the course contents. CyberMACS is one of the European top-quality Master Courses selected by the Erasmus+ Programme (Erasmus Mundus).

Thank you