



# Hosting offers

for

**Marie Skłodowska-Curie Actions Postdoctoral Fellowships**

Call 2026

# Krzysztof Graczyk

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**evaluation panel:** PHY

**keywords:** machine learning, deep learning, neutrinos, lepton interactions, new physics

## **potential project topics:**

I am interested in developing AI-driven tools for physics and am seeking potential collaborators for the following projects:

### *1. AI-Driven Models for Electron and Neutrino Collisions with Atomic Nuclei.*

This project focuses on developing new AI tools for modeling and simulating lepton interactions with atomic nuclei.

### *2. AI-Supported Searches for New Physics.*

This project aims to create AI tools that facilitate the discovery of new relationships and potential laws in physics.

### *3. Understanding Physics Through Deep Learning Models.*

This research investigates the properties of deep learning systems in relation to methods of theoretical physics.

# Helena Duffy

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**evaluation panel: SOC**

**keywords:** Holocaust, trauma, memory, animal turn, zoopoetics, zoocriticism, ecocriticism

**potential project topics:**

Literary and Cinematic Representations of Dispersed Holocaust/Holocaust by Bullets

Ecocritical /Zoocritical Readings of Holocaust Literature and Cinema

War Against Animals in French or British Fiction

Animal Trauma in Literature and Cinema

Intersections of Animality and Disability in Contemporary Literature and Cinema

# Małgorzata Biczysko

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## [OFFER NO. 1 proteins](#)

**evaluation panel:** CHE/LIF

**keywords:** protein structures, bio-macromolecules, quantum refinement, spectroscopy

**potential project topics:**

1. The development, validation and application of computational approaches supporting and complementing X-ray protein crystallography or electron cryo-microscopy (Cryo-EM) experiments. The main focus is on integrated computational model for protein structure, spectra and function within the Quantum Refinement project.

## [OFFER NO. 2 spectroscopy](#)

**evaluation panel:** CHE

**keywords:** spectroscopy, astrochemistry, anharmonicity, vibrational properties

**potential project topics:**

1. Development and validation of computational spectroscopy methods necessary for the study of complex molecular systems, in particular theoretical and experimental vibrational spectra for model systems of increasing size and complexity, necessary for the validation of methods.
2. Application of spectroscopic methods in Astrochemistry, theoretical and experimental spectra in the MIR to NIR range allowing for the analysis of data from various astronomical systems.
  - a. Isolated molecules and model systems relevant for the analysis of interstellar ices, photochemistry as modeling of the formation and degradation of molecules under the influence of UV radiation.
  - b. Complex systems simulating mineral substances with organic admixtures allowing for the analysis of samples collected during Mars missions.

# Wojciech Bury

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evaluation panel: CHE

**keywords:** metal-organic frameworks, porous materials, catalysis, reticular chemistry

**potential project topics:**

Metal-Organic Frameworks for sorption, separations and catalysis

MOF-polymer hybrids – design and applications

Metal-Organic Polyhedra – design and applications

# Wojciech Drąg

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evaluation panel: SOC

**keywords:** contemporary literature, English literature, American literature, experimental literature, life writing, fragmentary writing, collage literature

**potential project topics:**

Any topic concerned with formally unconventional aspects of contemporary Anglo-phone literature.

# Bernhard Kepplinger

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## evaluation panel: LIF

**keywords:** Streptomyces, mycelium, hyphal tip growth, branching, polar growth, cell morphogenesis, cytoskeletal proteins, protein-protein interactions, filamentous bacteria, sporulation, DivIVA, coiled-coil proteins, actinomycetes, cell polarity, fluorescence microscopy

## potential project topics:

Cell morphogenesis of Streptomyces

Our research group is dedicated to uncovering the fundamental molecular mechanisms that govern how Streptomyces bacteria orchestrate the remarkable process of mycelium formation. At the heart of our work lies a deep fascination with the spatial and temporal organisation of the key proteins responsible for tip growth and hyphal branching — two processes that are essential for the characteristic filamentous lifestyle of these organisms. Through a combination of advanced imaging, genetic, and biochemical approaches, we aim to identify and characterise novel proteins involved in these processes, and to map their interactions with the established molecular machinery of tip growth. By building a more complete picture of the protein networks that drive polar growth, we hope to shed light on how these complex multicellular structures emerge from a single spore.

Antibiotic discovery

With the global rise of antimicrobial resistance posing an ever-growing threat to human health, the discovery of new antibiotics has never been more urgent. Our group is actively engaged in the identification and purification of novel specialised metabolites from Actinobacteria — a bacterial phylum that has historically been the richest source of clinically relevant natural products. Leveraging a powerful suite of whole-cell reporter systems alongside cutting-edge single-cell microscopy assays, we work to not only isolate promising new compounds but also to elucidate their modes of action. Understanding precisely how a new antibiotic kills or inhibits bacterial cells is critical for predicting its therapeutic potential and for anticipating the emergence of resistance, making this mechanistic insight a cornerstone of our discovery pipeline.

# Dorota Kołodziejczyk

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**evaluation panel: SOC**

**keywords:** postcolonialism, neurodiversity, Central Europe, comparative literature, migration, identity, self, environment, translation, posthumanism, biohumanities

**potential project topics:**

Neurodiversity: society, culture, art and literature

Postcolonial perspectives on Central and Eastern Europe

Comparative literature (including concepts of world literature) and translation studies

Postcolonial literatures: history, languages, changes, comparisons

Migrations, especially in a historical perspective and with the focus on transcolonial connections

Peripheral cosmopolitanisms: history, society, memory in comparative frameworks

Posthumanist interventions in poetry, the novel, life writing, essay (e.g. in the framework of biohumanities, neurodiversity, animal studies, memory studies etc.)

# Wojciech Jasiński

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**evaluation panel: SOC**

**keywords:** criminal procedure · digitalisation of justice · criminal evidence · criminal justice systems · comparative criminal procedure · fair trial rights · human rights in criminal proceedings · wrongful convictions

## **potential project topics:**

Research topics concerning: theory and practice of criminal proceedings, application of new technologies in handling criminal cases, human rights issues in criminal proceedings (e.g. defence rights, protection of privacy), institutional aspects of criminal justice systems (judiciary, prosecution), the right to a fair trial, European Court of Human Rights and its influence on fair trial rights standards, law of evidence, illegally obtained evidence, wrongful convictions, miscarriages of justice, procedural rights in the EU.

# Aneta Wojnar

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evaluation panel: PHY

**keywords:** modified and quantum gravity, gravity, thermodynamics

## potential project topics:

1. Thermodynamics of gravitational system
2. Observational signatures of quantum and modified gravity
3. Any topic related to project FuSe (<https://www.cost.eu/actions/CA24101/>), see Memorandum of Understanding (MoU) for more details)

# Beata Baczyńska

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**evaluation panel: SOC**

**keywords:** Spanish literature and theatre / old Spanish books / relations between Poland and Spain / Golden Age Spanish theatre

## **potential project topics:**

- (1) project based on the old prints collection of the Wrocław University Library (<https://www.bu.uni.wroc.pl/en/departments/special-collections/old-prints-department-collections#katalogi>);
- (2) Spanish Golden Age theatre in Poland;
- (3) cultural relations between Poland and Spain in the 20<sup>th</sup> century, e.g. Andrzej Wajda and his presence in Spain in the 70<sup>th</sup> and 80<sup>th</sup>; Jerzy Grotowski and his reception in Spain;
- (4) Polish literature/theatre in Spain and Spanish language countries;
- (5) Spanish Golden Age theatre.

# Beata Ociepka

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**evaluation panel: SOC**

**keywords:** international communication, public diplomacy, power of communication, international relations

**potential project topics:**

Structural changes in international communication. Impact of online platforms and AI on international communication

States as actors of international communication in digital era

Shrinking spaces for public diplomacy globally

Post-colonial approaches in studies on European media

Post-colonial and colonial narratives in trans-European relations

# Davide Artico

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**evaluation panel: SOC**

**keywords:** Old Yiddish Literature; Italian Literature; Late Modern and Contemporary History.

**potential project topics:**

1. Yiddish translations of Italian literary works;
2. Napoleon's literary portraits in Italian literature (early 19<sup>th</sup> century);  
Political stances in Italian popular songs (late 20<sup>th</sup> century);
3. Publishing policies for Italian translations of contemporary Polish literature;
4. Forced population transfers in Europe after the Second World War.

# Justyna Deszcz-Tryhubczak

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**evaluation panel: SOC**

**keywords:** children's and YA literature and culture, posthumanism, ecopedagogy, ecoliteracy, the Anthropocene, childism, children's rights, participatory research with young people, postdigital childhoods

**potential project topics:**

Ecopedagogy and ecoliteracy through children's/YA literature and culture

Childist approaches in children's/YA literature and culture scholarship, including participatory and child-led approaches

Posthumanism and new materialism in children's/YA literature and culture scholarship

Children's/YA culture as a gateway to human rights education

Children's/YA culture and AI literacy

# Grzegorz Joachimiak

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**evaluation panel: SOC**

**keywords:** musicology; digital musicology; musical cultural heritage; early music studies

**potential project topics:**

Potential projects may focus on historical musicology, early music sources, and musical cultural heritage, especially in the context of Central and Early Modern Europe. Topics may include the study of manuscripts and prints, including sources related to lute and other instrumental repertoires, music theory, performance practice and the musical culture of the 16th–18th centuries, as well as questions of cultural memory and heritage. Projects related to digital musicology are also welcome, including the use of digital methods for analysing and editing historical sources. Technical aspects such as music encoding or OMR may be developed in collaboration with interdisciplinary teams.

# Karolina Kremens

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**evaluation panel: SOC**

**keywords:** criminal procedure · digitalisation of justice · artificial intelligence · sexual violence · gender and criminal justice · comparative criminal law · digital evidence · remote proceedings · victims' rights · prosecutor's powers · feminist legal theory

## **potential project topics:**

Research at the intersection of criminal procedure, digitalisation, feminism and gender justice. Potential projects could examine: (1) how AI-driven tools (risk assessment, evidence analysis, decision-support systems) affect fair trial rights and gender equality in criminal proceedings; (2) whether procedural safeguards for victims of sexual and gender-based violence remain adequate in virtual and hybrid court environments; (3) how digital evidence standards can be designed to strengthen victims' position in rape adjudication. All projects would employ comparative and interdisciplinary methods, combining doctrinal analysis with empirical research.

# Małgorzata Heidorn-Czarna

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**evaluation panel: LIF**

**Keywords:** mitochondria, mitochondrial quality control, mitophagy, proteome, proteases, proteolytic system, internal architecture of mitochondria, environmental stresses, abiotic stress response, plant stress resistance, proteomics, integrated omic approaches

**Potential project topics:**

1. Molecular mechanisms underlying abiotic stress responses and adaptations in plants
2. Role of organelles in abiotic stress responses
3. Proteolytic regulation of mitochondrial architecture in plants
4. Role of mitochondrial proteases in maintaining cristae integrity during abiotic stresses
5. Proteome remodelling of plant mitochondria in response to temperature extremes
6. Cross-talk between mitochondrial and chloroplast stress responses
7. Multi-omics mapping of mitochondrial adaptation strategies in stress-resistant plants

# Marlena Oleksiuk

**contact:** marlena.oleksiuk@uwr.edu.pl

**evaluation panel:** SOC

**keywords:** Korean language and literature, modern literature (20<sup>th</sup> & 21<sup>st</sup> centuries), Korean history, Korean society.

## **potential project topics:**

Nowadays Korea-related topics are very popular in Europe. This is called *hallyu*. It contains music, film, literature, cosmetics, food, fashion style and so on. Many scholars find hallyu an interesting topic to research or choose on of the theme to research. I focus mainly on literature, but I research also how social problems in Korea are reflected in the modern literature, for example: the motif of women-plant in Han Kang's literature, women position in modern Korean society, change of the family model in Korea, the influence of new trends on Korean society, mutual influence of film and literature, problems of Korean society reflected in literature- example in Kim Ho Yeon's books. The problem of overwork, the influence of historical events on society etc. My research focus mainly on modern Korean literature, but it spreads also on sociology, filmography, history, international relations, technology, modernization.

Interdisciplinary and diversity are integral parts of my research. I cooperate with many scholars from Korean Studies at European Universities (Turin, Malaga, Paris, Neapoli, Copenhagen, Madrid, Prague, Budapest, London). We work together on different project as books, articles, conferences, events. Our work offers multicultural approach to perception of Korean culture abroad.

Potential project topics:

- Korean modern literature (Han Kagn's works, Kim Ho Yeon, Yun Jungeun, Chung Bora's works etc.)
- Gender studies in Korea
- The influence of music, film, history on Korean literature
- Social problems reflected in the Korean literature (overwork, gender problems, influence of modern technology on society etc.)

# Maciej Pichlak

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## evaluation panel: SOC

**keywords:** legal theory; socio-legal studies; constitutionalism; risk and law; risk in constitutional law; constitutional crises; democracy and constitutionalism; civic participation; constituent power; reflexivity in law

## potential project topics:

I am interested in supervising the project located in one of two main areas of my own research (see below), which combines a strong theoretical background with doctrinal and/or empirical research.

*1. The role of constituent power and civic participation in contemporary constitutional orders*

The projects that research the processes of inclusion/exclusion of citizens into constitutional practices are welcomed.

*2. Constitutionalisation of risk in contemporary constitutional orders*

The project may research the impact of one of the prevalent systemic risks – in fields such as climate, migration, public health, or digital privacy – on constitutional laws, both at national and supranational (the EU) levels.

# Przemysław Wiszewski

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**evaluation panel: SOC**

**keywords:** medieval history, regional history, public history, identity policies, multi-ethnic communities

**potential project topics:**

comparative histories of: multi-ethnic societies, communication practices; identity building and transformations; cohesion of identity groups; regio-genesis and region-state relations; medieval nunneries; word and picture – narrative bonding and disrupting communities; Central Europe, Anglo-Saxon Britain;

# Elżbieta Opłowska

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**evaluation panel: SOC**

**keywords:** borderlands studies, migration, memory studies, narratives and discourses, biographical research, cross-border cooperation, Europeanization

**potential project topics:**

- Migrants in Poland/Europe
- Migration and integration policies
- Cross-border cooperation in the European Union
- Processes of de-/rebordering
- Discourse and narrative analysis

# Agnieszka Sorokowska

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**evaluation panel:** SOC

**keywords:** psychology; cross-cultural psychology; nonverbal communication; sensory perception; perception; olfaction (smell); somatosensation; touch; psychophysiology; biological bases of behavior; interpersonal relationships; social cognition

**potential project topics:**

Potential research topics include the role of smell, touch, and other sensory modalities in human perception, non-verbal communication and interpersonal relationships. Post-doctoral candidates are also welcome to develop projects encompassing cross-cultural and evolutionary perspectives on social interactions and relationships. Projects may integrate methods from psychology, psychophysiology, neuroscience, and anthropology, including field research in diverse cultural settings. Candidates will have the opportunity to collaborate within an international research network and contribute to innovative, globally relevant studies on the biological and cultural foundations of human behavior.

# Dominika Lewicka-Szczebak

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evaluation panel: ENV

**keywords:** nitrogen cycle, soils, waters, stable isotopes, nitrates, N<sub>2</sub>O, isotope modeling

**potential project topics:**

stable isotope analyses of N-bearing compound to trace N-cycle in waters / soils / atmosphere, applying isotope models to quantify mixing and fractionation processes, stable isotope analyses of waters and modelling of waters mixing and evaporation, investigating the impact of agricultural strategies on soil N-cycle, conducting laboratory microcosm experiments of waters or soils to trace the biogenic elements cycles in controlled conditions

# Adam Mrozowicki

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**evaluation panel:** SOC

**keywords:** sociology of work, industrial relations, precarity, capitalism, biographical method,

**potential project topics:** Potential areas of collaboration: research into the contemporary working class and the precariat; analysis of the polycrisis in the world of work; comparative studies of social dialogue and industrial relations in Eastern Europe and beyond; research into digital and energy transitions in the world of work;