

VERSION 1 - OCTOBER 2025

This document lists Brittany-based researchers that are interested in hosting and supervising a Bienvenüe+ laureates. It aims to help potential applicants to find a supervisor for the upcoming Bienvenüe+ call. This list is not exhaustive.

These potential supervisors have indicated their research interests and expertise, as well as their contact details. Interested applicants are encouraged to directly contact them via email or via their websites.

Researchers that are interested in adding to this list an expression of interest can contact <u>mscabienvenue@bretagne.bzh</u>

Number #	Title
1	Organic chemistry of pi-conjugated systems
2	Metal halide perovskites and perovskitoids: from ab-initio to empirical modeling for the development of frugal & environmentally friendly devices
3	Physics of metal halide perovskites: modelling and characterization of materials, nanostructures and devices
4	Biophysics of bacteria in soil at the microscale
5	Understanding Life Under High Pressure: A Molecular Exploration in T. barophilus
6	Continental aquatic ecology on wetlands
7	Assessing Biodiversity Linked to Small Water Infrastructures across Diverse Urban and Rural Settings
8	Genomics, physiology, ecology and/or applied aspects of algal pathogens interactions
9	Impact of thyroid hormonal system disruption on the health of rainbow trout intergenerationally exposed to PFAS
10	Understanding of interfacial behavior of plant protein
11	Advanced DSP and AI techniques for nonlinear compensation in coherent optical fiber networks
12	Plastic pollution in agriculture
13	Insect-Based Low-Tech Solutions for Plastic Waste and Sustainable Poultry Farming in Brittany
14	Ecogeochemistry
15	Functioning and Stability of complex ecological communities & ecosystems
16	Additive Manufacturing of Bio-Based Construction Materials
17	Advancing Digital Assessment of Movement Behaviour for Health Research
18	Numerical modeling of fused granulate fabrication process for digital twin applications

19	Advanced constitutive equation for fiber-filled fluids
20	Mobile Work and Tourism: Towards New Mobility Regimes in Brittany
21	Alternative asphalt materials for zero-carbon pavement
22	Hygrothermal performance and durability of geo-based building materials for sustainable construction though local moisture measurements
23	Control of multi-sensory simulations through human movement for immersive art and live performances
24	Modular and AI approaches to design and maintenance for Digital Editions
25	Regulation of the Microtubule Cytoskeleton
26	Glycochemistry
27	Embodied intelligence for robot-based, assistive living technologies

Interest #1		Organic chemistry of pi-conjugated systems			
Keywords	Organic Electronics; pi-conjugated systems; Organic chemistry, Photophysics, electrochemistry, OLEDs				
Laboratory	ISCR	Host Institution	CNRS		
Description	Our group is involved in the design, the synthesis and the study of pi-conjugated systems for organic electronics. Particularly, we design organic host materials for OLEDs particularly high triplet energy. Our group is also strongly involved in the synthesis of nanohoops, new generation of macrocycles with a cylinder shape, possessing awesome electronic properties. We are organic chemists with also an expertise in photophysics, electrochemistry and organic electronics. We are working with many research groups worldwide such as those of Prof Cornil (Belgium), Jiang (China) and Adachi (Japan)				
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Interest #2	Metal halide perovskites and perovskitoids: from ab-initio to empirical modeling for the development of frugal & environmentally-friendly devices			
Keywords	metal halide perovskites; hybrid organic/inorganic; quantum diele			
Laboratory	ISCR Host Institution		CNRS	

Description	Candidates with excellent background in solid state physics would benefit from knowledge and collaborations in the field of metal halide perovskites and related perovskitoids to build an original theoretical project. This may range from state-of-the-art many-body ab-initio approaches down to empirical models, more suitable to tackle devices related open questions. Advice for both methodological developments and numerical simulations dedicated to specific experimental technics (for instance NMR/NQR, ultrafast spectroscopies) or, phase transitions,) or physical observables, on perovskite semiconductor physics, organic photoactive or spectator cations, from bulk to nanostructures are possible.
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Interest #3	Physics of metal halide perovskites: modelling and characterization of materials, nanostructures and devices			
Keywords	solid-state physics; tight-binding; k.p hamiltonian; exciton; many-body; electron- phonon; polaron; optoelectronic devices; solar cells; LED; quantum optics; semiconductors; quantum dots; quantum wells; thin films; Neutron scattering; Raman scattering; synchrotron; XRD			
Laboratory	FOTON CNRS	Host Institution	INSA Rennes	
Description	FOTON team has a long-lasting experience in bridging abinitio or empirical simulations with structural, optical and vibrational characterization of perovskite materials, and low-dimensional (2D, 0D) perovskite nanostructures. Candidates with excellent background in solid state physics would benefit from knowledge, national and international collaborations of the perovskite group in Rennes. Combined experience in empirical modelling, advanced characterization of semiconductors and nanostructures are welcome in the perspective of optoelectronic device, solar cell and quantum optical emitter design			
Name	Jacky Even			
Contact (mail)	jacky.even@insa-rennes.fr			
Contact (website)	https://www.institut-foto perovskites/	n.eu/physique-des-materiaux-e	et-dispositifs-	

Interest #4	Biophysics of bacteria in soil at the microscale			
Keywords	enviro	•	bacterial behavior - interfacial dynamics - ofluidics	
Laboratory	IPR Host Institution Université de Rennes			

Description	My main research interests lie at the interface between soft matter physics, fluid mechanics, biophysics, and environmental microbiology. Current work of my lab combines experiments – using tools such as microfluidics and microscopy – and theoretical models to understand microbial dynamics in the environment and their macroscopic impacts. One question we are particularly keen to explore within the interdisciplinary community of the campus of Rennes Beaulieu is how microbes such as bacteria interact with air-water interfaces in the soil and modify water dynamics there.		
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Interest #5	Understanding Life Under High Pressure: A Molecular Exploration in T. barophilus				
Keywords	Deep sea hydrothermal vent ; piezophiles ; archaea ; hyperthermophiles ; adaptation ; structural biology ; High hydrostatic pressure ; microbial physiology ; microbial genetics ; biochemistry				
Laboratory	BEEP	Host Institution	UBO		
Description					
Name	Mohamed Jebbar				
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Contact (website)	https://www.un	https://www.umr-beep.fr/en			

Interest #6	Continental aquatic ecology on wetlands			
Keywords	biodiversity, malaise trap, eDNA, carbon flux, invertebrates			
Laboratory	UMR6553 ECOBIO	Host Institution	Université de Rennes	
Description	My research focuses on landscape ecology in the context of global climate change and biodiversity conservation. My work aims to understand the functioning of animal communities and populations in heterogeneous environments subject to strong anthropogenic constraints, such as urban, agricutural and freshwater environments. Currently working on a national project on wetlands, we are examining flux of emerging aquatic insects in adjacent terresterial environments and ecosystem services associated.			
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	Assessing Biodiversity Linked to Small Water Infrastructures across Diverse				
Interest #7	Urban and Rural Settings				
Keywords	fountains, was	shhouses, wells, trough, biodiversity, microb	iology, eDNA,		
Reywords	groundwater, surface water				
Laboratory	BOREA Host Institution MNHN				
Description	groundwater, surface water				
Contact (mail)	Cédric HUBAS cedric.hubas@mnhn.fr				
Contact (website)		n.fr/en/users/c%C3%A9dric-hubas			
Contact (WCDSICC)	necps.//borca.mim	init chi ascrat chocs forts are masas			

Interest #8	Genomics, physiology, ecology and/or applied aspects of algal pathogens interactions			
Keywords	Algae; host-pathogen interactions ; functional genomics ; ecology ; evolution ; aquaculture ; conservation			
Laboratory	UMR 7245	Host Institution	MNHN	
Description	Originally trained as a molecular plant pathologist, I am a Professor at the Muséum National d'Histoire Naturelle (Paris, France). My research focuses on the ecology, physiology and genomics of diseases in algae, disease management in commercial algal cultivation, as well as their implications for policy-making towards biosecurity and conservation. Typically, I address research questions by establishing model interactions involving eukaryotic pathogens and their algal host(s). We then deploy biochemical, histological, molecular, genomic or biophysical investigation tools to characterise these models and link them with environmental data and/or in silico analyses. I would be especially open to discuss the possibility of a MSCA project based in the marine station of Concarneau, that would make use of the emerging seaweed aquaculture facilities there.			
Name	Claire Gachon			
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Interest #9	Impact of thyroid hormonal system disruption on the health of rainbow trout intergenerationally exposed to PFAS		
Keywords	PFAS; endocrine disruptors; im	munity; trout; reproduction; in vivo	exposure
Laboratory	PPN unit VIMEP	Host Institution	Anses
Description	Scientists and public authorities have become increasingly interested in endocrine-disrupting compounds (EDCs) because of their increasing use and growing evidence of their harmful effects on humans and the environment. Recently, the disruption of the thyroid hormone system (THS) by EDCs has gained more attention due to its impact on many key physiological systems including the immune system (IS). Among EDCs, per and polyfluoroalkyl substances (PFAS) are ubiquitous and persistent in the environment as well as in organisms causing many biological disturbances. We are looking to investigate further the impact of THS disruption on global health in rainbow trout exposed during two generations to PFAS.		
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Contact (website)	_		

Interest #10	Understanding of interfacial behavior of plant protein				
Keywords	plant protein, foam, interfacial behavior				
	UMR Science and Technology of Host Institut Agro Rennes-				
Laboratory	milk and egg	Institution	Angers		
Description	To meet the increasing demand for prois a necessity to support protein transi protein products. Foams are particular protein with high solubility, fast diffusi interactions ability. Moreover, plant products and/or polysaccharides that impact the foaming properties. A first project per interesting plant protein ingredients at to further understand the interfacial be with their molecular state and especial physicochemical and processing condicts characterization of foams such as foam texture. The digestibility of foams obtain the mix research unit Science and Tece experience in the study of milk and egrow, the researchers also included plate to transfer their expertise acquired on the group process-structure-functional supramolecular mechanisms behind the such as foams.	tion by expanding application towards the irrotein ingredients eir interfacial behas egg white replace havior of these place tions and to rely ining capacity, foal ained could also behavior of Milk and g protein function and proteins in the animal proteins tallity (PSF) explores	the range of plant-based olications as they required aterface, flexibility and often contain traces of fat avior and thus their identified at least 3 ter in foams. We would like plant proteins in relation on level, as a function of the to macroscopic mustability and foam the considered. The Eggs has a high palities. For nearly 10 years ir subject areas and wished to plant proteins. Especially, at the main molecular and		
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	Advanced DSP and AI techniques for nonlinear compensation in coherent optical		
Interest #11	fiber networks		
Keywords	Optical fiber networks ; Coherent communications ; Optical performance monitoring ; Nonlinearity compensation ; Signal Processing ; Machine learning.		
Laboratory	Lab-Sticc	Host Institution	Bretagne INP
Description			

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	complex nonlinear behaviors. Still, issues like laser phase noise and polarization		
	mode dispersion remain challenging. Hybrid DSP/AI approaches are being explored		
	for efficient, robust compensation.		
	We are currently expanding our work to focus on low-complexity ML models to		
	reduce processing demands. Adaptive, self-calibrating models will be investigated		
	along with improved optimization techniques tailored to optical systems. Physics-		
	based ML models will integrate optical knowledge to enhance detection at low		
	complexity. Al-enhanced DSP will improve tracking and robustness, especially for		
	polarization demultiplexing and phase noise. We carry out experiments at		
	Bretagne INP in collaboration with LabOptic, a joint lab with Orange.		
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Interest #12	Plastic pollution in agriculture		
Keywords	biodegradable plastic ; mulch films ; food packaging ; waste ; methanisation ; compost ; aerobic degradation ; anaerobic degradation ;		
Laboratory	OPAALE	Host Institution	INRAE
Description	Methanisation and composting are the two valorization solutions, very promising for transforming organic biomass into biogas and/or fertilizer for agricultural soils in anaerobic or aerobic conditions. However, the presence of collection bags or other plastic objects (single-use packaging, mulching film, etc.) in biowaste represents a source of major difficulties in technological terms (blockage of grinders, filters, etc.) and for the health of ecosystems (return to the ground of digestates) and humans. Our research aims at improving and better understanding the biodegradation of these plastics in biowaste management processes while preventing their health hazards. To achieve this, we must develop i) new approaches to aerobic and anaerobic treatments and pretreatments of biodegradable plastics, but also ii) analytical methods suitable for the real-time characterization and quantification of		
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Contact (website)			

	Insect-Based Low-	Insect-Based Low-Tech Solutions for Plastic Waste and Sustainable Poultry				
Interest #13		Farming in B	Brittany			
Keywords	beetles ; Alphitobi	Plastic biodegradation; Insect-based solutions; Low-tech innovation; Tenebrionid beetles; Alphitobius diaperinus; Polystyrene degradation; Microbiome and biodegradation; Ecological transition; Waste management; Sustainable poultry farming; Green agriculture				
Laboratory	UMR CNRS Ecobio					
Description	I have over 20 years of research experience on the lesser mealworm, Alphitobius diaperinus, encompassing its thermal ecology (e.g., Colinet, 2011 CBP-A; Colinet et al., 2011 J. Therm. Biol.; Lalouette et al., 2007 FEBS J), insecticide resistance, and more recently, plastic biodegradation. My work in Brittany has characterized populations resistant to β -cyfluthrin, highlighting significant agricultural and economic impacts (Renault & Colinet, 2021 Insects; Colinet et al., 2023 Trends Entomol; Gouesbet et al., 2025 Insect Science). Building on this expertise, I have					

	explored the potential of A. diaperinus to degrade synthetic plastics, including		
	polystyrene, demonstrating its capacity to fragment and digest polymers in controlled experiments (Richard et al., 2025, Environ Technol Innov). Parallel		
	studies on micro- and nanoplastics in Drosophila, have deepened my		
	understanding of plastic pollution hazards and organismal interactions (Renault		
	et al., 2024 STOTEN; Richard et al., 2024 J. Hazardous Mater.; Richard et al., 2025		
	Ecotox. Environ. Safety). This unique combination of expertise on the model		
	organism biology, pest management, and plastic biodegradation, positions me to		
	explore innovative, low-tech, and sustainable solutions at the interface of applied		
	ecology, agronomy, and environmental engineering. I am looking to work further		
	on: (1) elucidating the underlying mechanisms underlying plastic degradation by		
	A. diaperinus (microbiota, digestive enzymes, secondary biodegradation), and (2)		
	exploring/designing novel, pest-resistant insulating materials in collaboration		
	with technical and industrial partners. I am particularly keen on projects that		
	bridge fundamental research and practical applications, developing eco-		
	innovative strategies for both plastic waste remediation and sustainable poultry		
	production.		
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Interest #14	Ecogeochemistry				
Keywords	Benthic ecosystem functioning; Marine ecology; Biogeochemistry; Meiofauna; Foraminifera; Bioturbation; Symbiosis; Metabolism				
Laboratory	UMR BEEP Host Institution IFREMER				
Description	I am an ecogeochemist interested in the contribution of microfauna in the benthic ecosystem functioning. I aim at characterizing biogeochemical gradients in benthic microhabitats using microsensors and planar optodes. I study microfaunal contribution via their ecology, metabolism, bioturbation and symbiosis.				
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Interest #15	Functioning and Stability of complex ecological communities & ecosystems		
Keywords	biodiversity-ecosystem f	unctioning; temporal	stability; food-webs; meta-
Reywords	ecosystems; sp	ecies interactions; co	mmunity ecology
Laboratory	DECOD	Host Institution	INRAE
Description	communities and ultimately of challenge because communities species-specific reactions to experience.	disrupt ecosystem fury responses emerge environmental change My work integrates the gy to address a centrects of environmental munity assembly, economics, I use a combine the control of	from both the diversity of ees and the intricate networks of hese interaction networks into ral question: How do species I pressures on ecological osystem functioning, and

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Interest #16	Additive Manufacturing of Bio-Based Construction Materials		
Keywords	Additive manufacturing ; Embedded 3D printing ; Construction materials ; Bio-		
		based material	S
Laboratory	LGCGM	Host Institution	Université de Rennes
Description	Our group is exploring new strategies to shape natural and bio-derived resources (such as earth, hemp fibers, and foams) using 3D printing. The goal is to create lightweight, high-performance, and environmentally friendly building components with tailored mechanical and thermal properties. We want to contribute to designing novel printable formulations, optimizing architectures for strength, durability, and insulation, and assessing the environmental impacts of these emerging materials.		
Name	Alexandre Pierre		
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	https://www.linkedin.com/in/alexandre-pierre-		
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Interest	Advancing Digital Assessment of Movement Behaviour for Health Research		
Keywords	Health; Physical activity; Sedentary behaviour, Energy expenditure; Wearables; Accelerometer; Methods; Criterion validity; Walking; Walking limitations; Chronic diseases		
Laboratory	M2S (Movement, Sport and health Sciences) laboratory	Host Institution	Ecole normale supérieure de RENNES
Description	The digital shift in the assessment of human movement behaviour has the potential to profoundly transform our understanding of the relationship between health and movement. However, such progress depends on improved standardization and enhanced validity of assessment methods, including accelerometry. In line with recent international initiatives—such as the World Health Organization's new global guidance to improve the measurement and surveillance of physical activity and sedentary behaviour—our research team is actively investigating the criterion validity of wearables for assessing physical activity under free-living conditions, as well as their clinical use for characterizing movement behaviour in relation to walking limitations in people with chronic diseases. One major strength of our ongoing research programme is the availability of rich datasets collected under free-living conditions in both healthy and clinical populations, enabling accelerated data analysis and rapid progress toward new knowledge. Another key asset is our strong connection with an international research network, which fosters collaboration and broadens opportunities for impactful research.		
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Interest	Numerical modeling of	f fused granulate fabrication process f applications	or digital twin	
Keywords	Additive manufacturing, fused granulate fabrication (FGF), digital twin, CFD, multiphysics numerical simulation			
Laboratory	IRDL / ComposiTic	Host Institution	UBS	
Description	enabling precise dosing of the head. This process also reposited the head of the hea	netion (FGF) process addresses environment of the process and any custom fillers directly between the process and any custom fillers directly between the process and any custom fillers directly between the process and mold-necessarians and recyclable molds. The sustainable and recyclable molds. The sustainable and recyclable molds. The arch potential. The 3D-printing platform for the process of the process o	tly in the extrusion tive manufacturing haking industries as under development eatures end-to-end as under elevated challenge remains apture is available. In modeling the FGF ince, thermal fields, implex multiphysics and temperature-ion, crystallization, ermally anisotropic ang, E. Bertevas, D. 32, 053106, 2020.	
Name	Julien Férec / Cyran Le Gu	ennec		
Contact (mail)		cyran.le-guennec@univ-ubs.fr		
Contact (website)	https://orcid.org/0000-00	002-3140-3094 / https://compositic.fr	<u>/en/</u>	

Interest	Advanced constitutive equation for fiber-filled fluids			
Keywords	rheology, fiber suspension, model, CFD, active particles			
Laboratory	IRDL	Host Institution	UBS	
Description	characteristics determine the influence the comprehensive the suspension combined with design method Our research at the behavior challenges, sue matrix, fiber-fextend to active References: - "Rheologica Rheology of Mausias, Wiley"Short fiber Vincent, Commosise, Woodle O.00020-4 - "Macroscopic E. Bertevas, O.00020-4 - "Macroscopic E. Bertevas, O.00020-4 - "Orientation or orientation of the suspension of the suspensio	group welcomes candidates who study or are interest of fiber suspensions. This may involve a wide rare ch as accounting for the non-Newtonian behavior of iber interactions, fiber migration, or fiber flexibility of particle systems. I Modeling of Non-dilute Rod Suspensions", J. Non-Spherical Particle Suspensions, Edited by F. – ISTE, 2015. https://doi.org/10.1016/B978-1-7854 composite reinforcements", J. Férec, P. Laure, L. R. posite Reinforcements for Optimum Performan head Publishing, 2021. https://doi.org/10.1016/B9 c modelling of the evolution of fibre orientation dur G. Ausias, N. Phan-Thien, Flow-Induced Alignmented by T.D. Papthanasiou, 2nd Edition, Woodhead Procience And Engineering, 2022. https://doi.org/10.02-6 n de fibres discontinues dans la mise en formues. Techniques de l'Ingénieur, 2025, pp.AM3729	processes, as they and consequently ch processes, a t multiple scales: ual fibers. When ient and powerful ested in modeling age of topics and of the suspending ity, and can even Férec, G. Ausias, Chinesta and G. 8-036-2.50004-6 ocha-da-Silva, M. ce, Edited by P. 978-0-12-819005-101 flow" J. Férec, ent in Composite ublishing Series In 1016/B978-0-12-ne de pièces en	
Name	Julien Férec /			
Contact (mail)	julien.ferec@ເ			
Contact (website)	https://orcid.	org/0000-0002-3140-3094		

Interest	Mobile Work and Tourism: Towards New Mobility Regimes in Brittany		
Keywords	Sustainable tourism, Digital nomadism, Mobility, Innovation, Attractivity,		
Laboratory	LEGO	Host Institution	UBS
Description			
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Interest	Alternative asphalt materials for zero-carbon pavement		
Keywords	Asphalt materials, bio-based materials, bituminous materials, green chemistry, rheology.		
Laboratory	IRDL - UBS		
Description	The recruited researcher will contribute to the valorisation of industrial by-products, locally available wastes, and underused natural resources for their incorporation into bituminous materials. The overarching goal is to partially or fully replace petroleum-based binders with bio-based alternatives, drawing on principles of green chemistry, biomass valorisation, and pollutant reduction. The work will involve assessing marine resources as well as by-products derived from the energy and agri-resource sectors, to identify candidates capable of delivering appropriate rheological behaviour for bituminous applications. Particular attention will be paid to achieving properties compatible with porous pavements and high-albedo surface layers, while ensuring satisfactory durability and long-term performance.		
Name	Arnaud Perrot		
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Interest		al performance and durability of geo-based buildi iinable construction though local moisture measu	_	
Keywords	Earth coi	nstruction, thermal conductivity, moisture content,	NMR Mouse	
Laboratory	IRDL	Host Institution	UBS	
Description	new formulati 185, 2024), ch J. Build Eng 29 186, 2019). Or water. The on-going behaviour at a hygrothermal To further add essential. To a other innovati relationship b	Our group is working on several aspect of earth construction: development of new formulations and innovative setting processes (Perrot et al., Cem Concr Res 185, 2024), characterization of materials and systems (Colinart et al., J. Build Eng 29, 2020), performance analysis in use (Colinart et al., Energy Build 186, 2019). One key issue for such materials remains its sensitivity to liquid		
Name	Thibaut COLIN	IART		
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Interest	Control of multi-sensory simulations through human movement for immersive art and live performances			
Keywords	3D, simulation, art and science, multi-sensoriality, motion analysis, expressiveness, live performance, immersive art, VR/AR/XR			
Laboratory	IRISA	Host Institution	Université Bretagne Sud	
Description	expressive ar in 2D or 3D) algorithms wimmersive Integrating a new way of it with their In the realm algorithms with their In the realm algorithms with their In the realm algorithms with their In the project as implementations. The project as implementations in the project of the simulations of o	aims to develop innovative algorithms nimations and multi-sensory simulations (visual driven by human movement, whether gestural drill enable new forms of creation, particularly art and live in immersive dimension into classical art will onteracting with artworks—now animated, expression style and emotions, and the of performing arts, the use of sensors coupled will allow artists to create differently, thanks to the extension of their bodies, expanding postuplete control over their expression. Spectators in an enhanced experience, with intensified addresses two major challenges in the field of the control of animations/simulations and An additional originality of the project lies in mersive art and live performance. The scientific level, it involves developing original-time expressive control, combining human resensory simulations; The methodological level, the close interplay be rech and artistic creation, requires new working the communication among the various stakeholdly, on the cultural and societal level, we aimprove the expressive creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into supatory artistic creations, beyond the usual training them into the control of the project lies in the field of the project li	I, sound, haptic, or bodily. These in the fields of performances. ffer the public a essive, endowed erefore alive. with simulation onew tools that essibilities while /Users will thus sensations and fanimation and multi-sensory its application ginal algorithms movements with etween scientificing methods and liders; it to democratize accessible and	
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Interest	Modular and AI approaches to design and maintenance for Digital Editions			
Keywords	Humanities, Digital Edition, Digital Humanities, AI, LLM, neural-network			
Laboratory	НСТІ	Host Institution	UBS	
Description	scholarly public publishing cer We are seekin fundamental grandidate will Reinver digital Design wider- Advan historic project We welcome as who are eager scientists with for someone coscholarship.	g a postdoctoral researcher to help addressing son global challenges in digital editing and research. The contribute to three major issues: enting preservation and maintenance workflows to editions through LLM. Ining a new, modular approach to interfaces for sociaudience editions. Incing neural-network-based tools for the study of ical documents, in close connection with LayoutFinets supported by a Max Planck grant. Impelications from candidates with a background in to deepen their expertise in digital methods, or from a strong interest in humanistic inquiry. Above all, furious, ambitious, and ready to work at the forefront.	ne of the most e successful for long-term holarly and literature and nder project, a the humanities om computer we are looking	
Name	Christophe Schuwey			
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Contact (website)	https://nouve	au.univ-brest.fr/hcti/fr/membre/christophe-schuw	vey	

Interest	Regulation of the Microtubule Cytoskeleton						
Keywords	Cytoskeleton, Microtubule, Microtubule-Associated Proteins, Protein Kinases, Mitosis, Human Cells, Drosophila tissues, Genetics, Microscopy, Image Analysis, Optogenetics, Tissue Development, Tumor.						
Laboratory	Cytoskeleton and Cell Proliferation	•					
Description							
Name	Régis Giet						
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Contact (website)	https://igdr.univ-renne	es.fr/equipe-cytosquel	ette-et-proliferation-cellulaire				

Interest	Glycochemistry					
Keywords	Glycosidic synth	Glycosidic synthesis – Frontiers with Life Sciences – Sustainability				
Laboratory	ISCR - CORINT	ISCR - CORINT Host Institution ENSCR				
Description	glycomics, methodefined oligosace and/or biocataly linked to the tecambition of the sustainable ster the advantages developed will reglycoconjugates	In the context of the accelerating discoveries in the domain of glycobiology and glycomics, methodological approaches devoted to the synthesis of structurally well-defined oligosaccharides are currently undergoing significant mutation. Automated and/or biocatalyzed synthesis have emerged as valuable strategies despite their high cost linked to the technology itself and the availability of the necessary substrates. The ambition of the project will address these limitations by developing innovative and sustainable stereocontrolled glycosidic synthesis in water, on solid support, by combining the advantages of organocatalysis and light-driven glycosylation. The technology thus developed will make it possible to produce well-defined oligosaccharides and glycoconjugates with potential bioactivities, particularly as immunostimulating agents, or as substrates for glycoarray diagnostics.				

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Interest	Embodied intelligence for robot-based, assistive living technologies			
Keywords	artificial intelligence, robot manipulation, human-robot interaction			
Laboratory	Lab-STICC, team RAMBO Brest	Host Institution	IMT Atlantique	
Description	The synergy between artificial intelligence and robotics allows the deployment of robots with increased autonomy and robustness, both indoors and outdoors. Contemporary applications require that algorithms are embedded and operate in real-time while relying on incomplete sensory data of reduced quality. At the same time, complementary sensors, actuators and functionalities are brought by ambient computing, smart spaces and connected objects that compensate and extend robot capabilities. In this context, we study how the synergy between robots and smart environments allows to develop increasingly complex skills that leverage continuous, incremental and lifelong learning of robots in open environments and in interaction with humans. Using robots alongside ambient intelligence for assisting humans in their daily activities and habitats, as well as professional users within their workspace, constitutes the major societal challenge that we seek to address. The main research areas of interest for the team range from robot/computer vision and data-driven control to multi-modal, human-activity understanding, to human-robot interaction and collaboration Likewise, the main application areas range from personal assistance and assistive robotics to search & rescue and monitoring in adverse conditions.			
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