

****Welsh translation follows the English text**

Alvira de Celis, Sara



Affiliation: Research Project Manager - School of Physiology, Pharmacology and Neuroscience, University of Bristol. CONNECTS-UK ACB member.

Social media handles:

personal - @alvipur y <https://www.linkedin.com/in/sara-alvira-de-celis/>

professional - @CEN_ITN

institutional - @UoBPPN

association - @ComunidadCeru

Bio:

Sara Alvira de Celis graduated as a pharmacist from the Universidad de Santiago de Compostela in 2006 followed by an MSc in Biotechnological Engineer (2006-2008). There, she started her research career in the laboratory of Mark van Raaij, in crystallography of viral proteins. In 2008, she moved to the CNB-CSIC in Madrid to complete her doctoral studies in molecular chaperones and transmission electron microscopy at the laboratory of Jose María Valpuesta. She accepted in 2014 a Research Associate position at the University of Bristol at the laboratory of Ian Collinson working in protein translocation machineries across membranes from a biochemical and structural view. She was awarded in 2015 with the José Tormo Prize from the SEBBM for her PhD studies in structural biology and the same year, she obtained an EMBO Long Term Fellowship. She was an Elizabeth Blackwell Fellow in 2018/2019 at the same position at the University of Bristol. In 2023 she made a change in her career and now holds a role as a research project manager in an Innovative Training Network within the Horizon 2020 programme. She was Director of the SRUK South West Constituency from 2017 to 2018 and Director of the International Collaborations Department from 2018 to 2020. Currently, she is a member of the SRUK Science Policy Department.

Benifei, Brando



Affiliation:

Member of the European parliament, co-Rapporteur of the Artificial Intelligence Act.

Social media handles:

https://www.facebook.com/benifeibrando/?locale=it_IT

<https://www.instagram.com/brandobenifei/>

https://x.com/brandobenifei?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor

Bio:

Brando Benifei is an Italian MEP serving his third term in the European parliament. During the previous mandate he was co-Rapporteur for the Artificial Intelligence Act and thanks to this work in March 2024 he won the prize for the Best MEP of the Mandate assigned by The Parliament Magazine.

Now he is Coordinator in the Committee on International Trade for the Socialists and Democrats Group and Chair of the European Parliament's D-US delegation. He is member of the Committee on Constitutional Affairs and he works also as substitute member on the EU internal market and consumer protection and on legal affairs, always following closely digital issues.

Badyal, Jas Pal



Affiliation:

Professor Jas Pal Badyal FRS Chief Scientific Adviser for Wales

Bio:

Jas Pal Badyal was awarded a Bachelor of Arts degree in 1985, gaining his Doctorate (PhD) in 1988, both from Cambridge University. He held a King's College Fellowship and the Oppenheimer Fellowship. In 1989 he moved to Durham University to take up a lectureship and was promoted to Full Professor in 1996. He is internationally recognised for his pioneering research on the: functionalisation of solid surfaces and deposition of functional nanolayers.

Jas Pal has invented many novel surfaces for technological and societal applications. These have been underpinned by the investigation of fundamental mechanisms and scale-up. Examples include: antibacterial, fog harvesting, catalysis, non-fouling, optochiral switches, filtration, biochips, super-repellency, nano-actuation.

As the Chief Scientific Adviser for Wales (CSAW) he provides scientific advice to the First Minister, his Cabinet and the wider Welsh Government, leads, influences and supports the setting of the scientific priorities for Wales. Works with science, research and innovation policy leads across Welsh Government, leads on developing proposals for a coherent and strategic approach to Welsh Government's Science and Research policy. Works with policy and science leads across Welsh Government to develop proposals on the role of science and research in tackling global challenges such as: climate change, human health care, protecting ecosystems, provision of sustainable energy supplies linked to decarbonisation goals. Promotes science, technology, engineering and mathematics (STEM) subjects, works with UK's Chief Scientific Adviser and liaises with Departmental Chief Scientific Advisers in the UK Government, is the head of profession for science and technology staff across Wales and the Welsh Government.

Bu, Qingxiu

**Affiliation:**

Reader in Global Law , University of Sussex

Bio:

Qingxiu has published widely in a variety of areas of law, many of which are themed around law and global challenges, with a particular focus on the development of legal infrastructures in transnational law and global governance. Qingxiu has just completed his Fellowship at Stellenbosch Institute for Advanced Study (STIAS). He has previously been a lecturer in law at Cardiff Law School, Cardiff University (2007-08) and School of Law, Queen's University Belfast (2008-13), during which he taught Transnational Business Law at Centre of Transnational Legal Studies (CTLS), Georgetown University as Adjunct Professor. Qingxiu was appointed as Li Kashing Professor of Practice at Faculty of Law, McGill University in 2019. He has held visiting posts at various institutions, including Lund University, Sweden, University College Dublin, Ireland, Tel Aviv University, Israel and the Max Planck Institute for Comparative and International Private Law in Germany. He worked also as Docent at the Institute of Global Law and Policy (IGLP), Harvard Law School in January 2013 and 2014. Qingxiu has completed five projects funded respectively by the British Academy, Foreign, Commonwealth & Development Office (FCDO), Department for Business, Energy & Industrial Strategy (BEIS), Newton Fund, and British Council (PMI) during the past years. Qingxiu serves as a senator member at University of Sussex.

Buurma, Niek



Affiliations:

Cardiff University, senior lecturer in physical organic chemistry CONNECTS-UK, ACB member

Niek is a director of the Dutch Academic Network in the UK and represents Dutch researchers working in the UK as a member of the ACB of CONNECTS-UK.

Social media handles:

Twitter: @NiekBuurmaH2O

Bluesky: @niekbuurmah2o.bsky.social

Linkedin: <https://www.linkedin.com/in/niek-buurma-3a94984/>

Bio:

Niek is a senior lecturer in physical organic chemistry at Cardiff University but grew up in the Netherlands, surrounded by water. It is therefore not surprising that his research is aimed at understanding reactions and interactions in aqueous solutions. Research themes in Niek's team include studies of chemical reaction mechanisms, development of biosensors, and development of cost-effective equipment for automation of chemistry. These research themes have logically resulted in complementary development of data analysis approaches for complex systems of reactions and interactions – and thus an interest in machine learning.

Flach, Peter A.



Affiliation: Professor of Artificial Intelligence, [Intelligent Systems Laboratory](#), [School of Computer Science](#), [University of Bristol](#)

Social media handles: <http://people.cs.bris.ac.uk/~flach/>

Talk title: "Generative AI in Research: Tool or Threat?"

Bio:

Peter Flach joined the Department (now School) of Computer Science at the University of Bristol in 1997 and was promoted to Professor of Artificial Intelligence in 2003. An internationally leading scholar in the evaluation and improvement of machine learning models, he has also [published](#) on mining highly structured data, on knowledge-driven and explainable AI, and on the methodology of data science. His books include [Simply Logical: Intelligent Reasoning by Example \(John Wiley, 1994; interactive online edition, 2022\)](#) and [Machine Learning: the Art and Science of Algorithms that Make Sense of Data \(Cambridge University Press, 2012\)](#), the latter of which has, to date, sold over 20,000 copies and has established itself as a key reference in machine learning with translations into Russian, Mandarin and Japanese.

From 2010 until 2020, Prof Flach was Editor-in-Chief of the [Machine Learning journal](#), one of the two top journals in the field that has been published for over 25 years by Kluwer and now Springer-Nature. He was Programme Co-Chair of the 1999 International Conference on Inductive Logic Programming, the 2001 European Conference on Machine Learning, the [2009 ACM Conference on Knowledge Discovery and Data Mining](#), and the 2012 European Conference on Machine Learning and Knowledge Discovery in Databases in Bristol. He is a founding board member, previous President and current Vice-President of the [European Association for Data Science](#). He is a Fellow of the [European Lab for Learning and Intelligent Systems](#), and of the [European Association for Artificial Intelligence](#). He was the founding director of the [UKRI Centre for Doctoral Training in Interactive Artificial Intelligence](#), and currently directs the [UKRI AI Centre for Doctoral Training in Practice-Oriented Artificial Intelligence](#).

Prof Flach has a strong track record of collaborations both in academia and in industry. In Bristol he collaborated with colleagues in Engineering on the [SPHERE project](#), with colleagues in Population Health Science in the MRC-funded [Integrated Epidemiology Unit](#),

and others. International collaborations include Monash University, the Polytechnic University of Valencia, the University of Strasbourg, the University of Tartu, and several universities in Brazil. Most recently he led the work package on Network Collaboration in the [TAILOR European network of AI excellence centres](#). Non-academic collaborators include LV=, QinetiQ, and over 20 partners in the Practice-Oriented AI CDT. Prof Flach is a member of the Advisory Board of [XMOS](#).

Fumarola, Anna



Affiliation: Project Manager at CONNECTS-UK

Social media handles:

LinkedIn [linkedin.com/in/anna-fumarola-44242623](https://www.linkedin.com/in/anna-fumarola-44242623)

X [@annafumarola](https://twitter.com/annafumarola)

Bio:

As Director of Communication of HISPASAT (Madrid) an aero-space operator, Anna Fumarola was in charge, among others, of the coordination of the different scientific cooperation programs of the R&I department with other national and international research centres within EU policy framework.

Later on, as External Relations Advisor and Program Officer for UNAIDS (Joint United Nations Programme on HIV/AIDS) and UN Women in Pakistan, she was specially involved with policy and advocacy for the UN women, peace, and security (WPS) agenda.

Once back in Spain, Anna Fumarola joined the Woman for Africa Foundation as Senior Project Manager, where she passed from policy to practice and implementation with several activities of capacity-building in conflict-resolution in Mali for local women.

She set-up and led two major post-doctoral programmes targeting African women researchers while implementing science diplomacy with a strong gender lens with the embassies of Spain in Senegal, the United Kingdom, South Africa, Mozambique, Nigeria and Morocco.

Anna Fumarola has consulted in gender policy for several projects and programs of both private, public and international organizations, such as Casa Asia and Council Foundation Spain-India, about design and implementation of gender programs consistent with the objectives of state actors (such as the Spanish Ministry of Foreign Affairs) and the social corporate responsibility policies of the trustees.

Palombo, Marco



Affiliation: Cardiff University Brain Research Imaging Centre (CUBRIC), School of Psychology, Cardiff University & School of Computer Science and Informatics, Cardiff University - Associate Professor

Social media handles: Twitter: @MarcoPalombo3; LinkedIn: Marco Palombo

Talk Title: "Towards Democratized and Sustainable Medical Imaging through AI"

Bio:

Marco Palombo is an Associate Professor and UKRI Future Leaders Fellow in microstructure imaging at the Cardiff University Brain Research Imaging Centre (CUBRIC), where he co-leads the MicroTeam group and at the School of Computer Science and Informatics where he co-leads the Medical Image Computing group. With a background in Physics, Dr. Palombo specializes in biophysical modelling, machine learning, computational modelling, medical imaging, and data analysis. His research program integrates computational and biophysical modelling with MRI and modern machine learning techniques to develop next-generation healthcare imaging technologies aimed at advancing early diagnosis and prognosis of neurological and psychiatric conditions.

Parra, R. Gonzalo



Affiliation: Barcelona Supercomputing Center. R. Gonzalo Parra Researcher.

Social media handles:

twitter: <https://x.com/GonzaParra>

linkedin: <https://www.linkedin.com/in/rgonzaloparra/>

Talk title: "Local Frustration: A computational biophysics based strategy to understand proteins and its implications for biomedicine"

Bio:

Dr. Gonzalo Parra studied Bioinformatics at Universidad Nacional de Entre Rios in Argentina and got his PhD from Buenos Aires University, Argentina, in the field of computational biophysics under the supervision of Prof. Diego Ferreiro. After the PhD, Gonzalo did two postdocs in Germany. First, an EMBO long term postdoctoral fellow at the group of Dr. Johannes Soeding at the Max Planck Institute for Biophysical Chemistry in Goettingen. Subsequently, he joined the group of Prof. Oliver Stegle at EMBL Heidelberg. During these years Gonzalo detoured to the field of single cell multiomics to develop tools to understand dynamic processes such as embryonic development and cellular differentiation as well as to understand the molecular basis of Medulloblastoma disease. Since 2021 he is part of the group of Prof. Alfonso Valencia where he leads a small team that focuses on the study of sequence-structure-dynamics-function relationships in proteins to understand their evolution, design and involvement in disease. This year, Gonzalo has received a Ramon y Cajal grant and will become a junior group leader in 2025.

In addition, Gonzalo is part of the leadership of the International Society for Computational Biology, the 3DBioinfo community from Elixir and collaborates with the Bioinfo4Women and the Queer Group initiatives at BSC.

Petersen, Ole H



Affiliation: CBE FRS, Director Academia Europaea Hub, Cardiff University. Professor of Physiology at Cardiff University.

Social media handles: Academia Europaea Cardiff website
<https://aecardiffknowledgehub.wales/>

Talk title: Introductory Remarks: AI: the new Frontier

Bio:

Ole H Petersen CBE FRS, Director Academia Europaea Hub, Cardiff University

Ole Petersen is Professor of Physiology at Cardiff University. In 2010, he succeeded the Nobel Laureate Sir Martin Evans FRS as Director of the Cardiff School of Biosciences. Before that, he held the George Holt Chair of Physiology at the University of Liverpool (1981–2009). He graduated in Medicine from the University of Copenhagen in 1969 and became Assistant and then Associate Professor in Copenhagen until his appointment as Symers Professor of Physiology at the University of Dundee (1975–1981). He discovered ion channels and their crucial role in controlling epithelial transport, published in a series of 14 *Nature* papers, in the 1970s and 1980s and, in the 1990s, discovered subcellular Ca^{2+} -signalling events and their regulatory roles in epithelia, published in 5 articles in *Cell*. He has received many awards, including the Novo Nordisk Foundation's Jacobaeus Prize, the Czech Science Academy's Purkyně Medal, the American Physiological Society's premier Walter B. Cannon Award, the Academia Europaea's Gold Medal and, most recently, the International Association of Pancreatology's George E. Palade Medal and Prize (Kyoto, 2022). He was appointed Commander of the Order of the British Empire (CBE) by Queen Elizabeth in 2008 for 'Services to Science'. He is an elected Fellow/Member of many European science academies, including the Royal Society (FRS), of which he is a former Vice-President, and the German National Academy of Sciences Leopoldina (ML).

Rikap, Cecilia

**Affiliation:**

Associate Professor in Economics and the Head of Research of the University College London's Institute for Innovation and Public Purpose

Social media handles:

@CeciliaRikap and my LinkedIn is also Cecilia Rikap

Talk title: "The political economy of AI: by whom, for what and for whom?"

Bio:

Dr. Cecilia Rikap is an Associate Professor in Economics and the Head of Research at the Institute for Innovation and Public Purpose of the University College London (UCL). Until joining UCL, she was a Senior Lecturer in International Political Economy (IPE) at City, University of London and programme director of the BSc. in IPE at the same university. She is a tenure researcher of the CONICET, Argentina's national research council, and associate researcher at COSTECH lab, Université de Technologie de Compiègne.

Rikap is the author of the award-winning book [Capitalism, Power and Innovation: Intellectual Monopoly Capitalism Uncovered](#) and co-author of the book [The Digital Innovation Race](#) in which Rikap and her co-author anticipate the politics and economics of AI that we are witnessing today.

Cecilia's research is rooted in the international political economy of science and technology and the economics of innovation. She studies the rising concentration of intangible assets leading to the emergence of intellectual monopolies among others from digital and pharma industries. Her research highlights the unequal distribution of intellectual (including data) rents and the effects of intellectual monopolization on the knowledge commons, development and rising geopolitical tensions. Her most recent work focuses on artificial intelligence and the cloud, Big Tech companies' dominance of these technologies, their interplay with other multinational corporations and the effects of Big Tech's extended intellectual monopolization on digital sovereignty. Rikap has experience advising policymakers in Argentina, Brazil, France, the United Kingdom and the United States as well as dozens of civil society organizations on these matters.

Roos, Teemu



Affiliation:

Professor of Computer Science, University of Helsinki & Finnish Center for AI (FCAI)

Social media handles:

LinkedIn: <https://www.linkedin.com/in/teemu-roos/>

Mastodon: <https://sigmoid.social/@troos>

Talk title: Technology Education for the Generation AI: From AI Literacy to AI Agency

Bio:

Teemu Roos is a Professor of Computer Science at the University of Helsinki and the Leader of the AI Education program at the Finnish Center for AI (FCAI). Roos is also the lead instructor of the Elements of AI online course that has over 1,4M users and has been rated as the world's best computer science MOOC. Previously, he has held visiting positions at UC Berkeley, MIT, and Cambridge University. His research interests include statistical machine learning and its applications in astrophysics, neuroscience, and epidemiology.

Alvira de Celis, Sara



Ymlyniad: Research Project Manager - School of Physiology, Pharmacology and Neuroscience, Prifysgol Bryste. Aelod o'r ACB CONNECTS-UK.

Cyfryngau cymdeithasol:

personol - @alvipur y <https://www.linkedin.com/in/sara-alvira-de-celis/>

proffesiynol - @CEN_ITN

sefydliadol - @UoBPPN

cymdeithas - @ComunidadCeru

Cofiant:

Graddiodd Sara Alvira de Celis fel fferyllydd o'r Universidad de Santiago de Compostela yn 2006 ac yna gwnaeth MSc mewn Peirianeg Biotechnolegol (2006-2008). Fel rhan o'i MSc, dechreuodd ei gyrfya ymchwil yn labordy Mark van Raaij, mewn crisialu proteinau firaol. Yn 2008, symudodd i'r CNB-CSIC ym Madrid i gwblhau ei hastudiaethau doethuriaeth mewn hebryngwyr moleciwlaidd a microsgopeg electronau trawsyrru yn labordy Jose María Valpuesta. Yn 2014, derbyniodd swydd Cydymaith Ymchwil ym Mhrifysgol Bryste yn labordy Ian Collinson yn gweithio ar beiriannau trawsleoli protein ar draws pilenni o olwg biocemegol a strwythurol. Yn 2015, dyfarnwyd Gwobr José Tormo SEBBM iddi am ei hastudiaethau PhD mewn bioleg strwythurol. Yr un flwyddyn, enillodd EMBO Long Term Fellowship. Roedd yn Gymrawd Elizabeth Blackwell yn 2018/2019 yn yr un swydd ym Mhrifysgol Bryste. Yn 2023 newidiodd ei gyrfya ac mae bellach yn rheolwr prosiect ymchwil mewn Rhwydwaith Hyfforddiant Arloesol o fewn rhaglen Horizon 2020. Bu'n Gyfarwyddwr Etholaeth De-orllewin SRUK o 2017 i 2018 ac yn Gyfarwyddwr yr Adran Cydweithrediadau Rhyngwladol o 2018 i 2020. Ar hyn o bryd, mae'n aelod o Adran Polisi Gwyddoniaeth SRUK.

Benifei, Brando



Ymlyniad: Member of the European parliament, co-Rapporteur of the Artificial Intelligence Act.

Cyfryngau cymdeithasol:

https://www.facebook.com/benifeibrando/?locale=it_IT

<https://www.instagram.com/brandobenifei/>

https://x.com/brandobenifei?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor

Cofiant:

Mae Brando Benifei yn ASE Eidalaid sy'n gwasanaethu ei drydydd tymor yn Senedd Ewrop. Yn ystod y mandad blaenorol roedd yn gyd-Rapporteur ar gyfer y Artificial Intelligence Act a, diolch i'r gwaith hwn, ym mis Mawrth 2024 enillodd y wobr am yr ASE Gorau o'r Mandad a neilltuwyd gan The Parliament Magazine. Nawr mae'n Gydlynnydd yn y Pwyllgor ar Fasnach Ryngwladol ar gyfer Grŵp y Sosialwyr a'r Democratiaid ac yn Gadeirydd dirprwy aeth D-US Senedd Ewrop. Mae'n aelod o'r Pwyllgor Materion Cyfansoddiadol ac mae hefyd yn gweithio fel dirprwy aelod ar farchnad fewnol yr UE a diogelu defnyddwyr ac ar faterion cyfreithiol, gan ddilyn materion digidol yn agos bob amser.

Badyal, Jas Pal



Ymlyniad:

Professor Jas Pal Badyal FRS Prif Gyngorydd Gwyddonol Cymru

Cyfryngau cymdeithasol:

Dyfarnwyd gradd Baglor yn y Celfyddydau i Jas Pal Badyal ym 1985, gan ennill ei Ddoethuriaeth (PhD) ym 1988, y ddau o Brifysgol Caergrawnt. Roedd ganddo Gymrodoriaeth Coleg y Brenin a Chymrodoriaeth Oppenheimer. Ym 1989 symudodd i Brifysgol Durham i fod yn ddarlithydd a chafodd ei ddyrchafu'n Athro Llawn ym 1996. Mae'n cael ei gydnabod yn rhyngwladol am ei ymchwil arloesol ar: swyddogaetholi arwynebau solet a dyddodiad nanohaenwyr swyddogaethol.

Mae Jas Pal wedi dyfeisio llawer o arwynebau newydd ar gyfer cymwysiadau technolegol a chymdeithasol. Mae'r rhain wedi'u tanategu gan yr ymchwiliad i fecanweithiau sylfaenol a chynyddu. Mae enghreifftiau'n cynnwys: gwrthfacterol, cynaeafu niwl, catalysis, peidio â baeddu, switshis opto-groenol, hidlo, biosglodion, uwch-ymliadiad, nano-actiwidiad.

Fel Prif Gyngorydd Gwyddonol Cymru (CSAW) mae'n rhoi cyngor gwyddonol i'r Prif Weinidog, i Gabinet y Prif Weinidog ac i Lywodraeth Cymru yn ehangach. Mae'n arwain, yn dylanwadu ac yn cefnogi gosod blaenoriaethau gwyddonol Cymru. Mae'n gweithio gydag arweinwyr polisi gwyddoniaeth, ymchwil ac arloesi ar draws Llywodraeth Cymru. Mae'n arwain ar ddatblygu cynigion ar gyfer ymagwedd gydlynol a strategol at bolisi Gwyddoniaeth ac Ymchwil Llywodraeth Cymru. Mae'n gweithio gydag arweinwyr polisi a gwyddoniaeth ar draws Llywodraeth Cymru i ddatblygu cynigion ar rôl gwyddoniaeth ac ymchwil wrth fynd i'r afael â heriau byd-eang megis: newid yn yr hinsawdd, gofal iechyd dynol, diogelu ecosystemau, darparu cyflenwadau ynni cynaliadwy sy'n gysylltiedig â nodau datgarboneiddio. Mae'n hyrwyddo pynciau gwyddoniaeth, technoleg, peirianeg a mathemateg (STEM). Mae'n gweithio gyda Phrif Gyngorydd Gwyddonol y DU ac yn cysylltu â Phrif Gyngorwyr Gwyddonol Adrannau yn Llywodraeth y DU. Ef yw pennaeth y proffesiwn ar gyfer staff gwyddoniaeth a thechnoleg ledled Cymru a Llywodraeth Cymru.

Bu, Qingxiu

**Ymlyniad:**

Reader in Global Law, University of Sussex

Cofiant:

Mae Qingxiu wedi cyhoeddi'n eang mewn amrywiaeth o feysydd o'r gyfraith, ac mae themâu o gwmpas llawer ohonynt

heriau cyfreithiol a byd-eang, gyda ffocws penodol ar ddatblygu seilweithiau cyfreithiol

mewn cyfraith draws-wladol a llywodraethu byd-eang. Mae Qingxiu newydd gwblhau ei Gymrodoriaeth yn

Sefydliad Astudio Uwch Stellenbosch (STiAS). Mae wedi bod yn ddarlithydd yn y gyfraith yn Ysgol y Gyfraith, Caerdydd, Prifysgol Caerdydd (2007-08) ac yn Ysgol y Gyfraith, Prifysgol y Frenhines Belfast (2008-13). Yn ystod y cyfnod hwn, bu'n dysgu Cyfraith Busnes Trawswladol yn y Ganolfan Astudiaethau Cyfreithiol Trawswladol (CTLS), Prifysgol Georgetown fel Athro Atodol. Penodwyd Qingxiu yn Athro Ymarfer Li Kashing yng Nghyfadrann y Gyfraith Prifysgol McGill yn 2019. Mae wedi dal swyddi gwadd mewn amrywiol sefydliadau, gan gynnwys Prifysgol Lund (Sweden), Coleg Prifysgol Dulyn (Iwerddon), Prifysgol Tel Aviv (Israel) a Sefydliad Max Planck ar gyfer Cyfraith Breifat Gymharol a Rhyngwladol (yr Almaen). Bu hefyd yn gweithio fel Docent yn y Sefydliad Cyfraith a Pholisi Byd-eang (IGLP) yn Ysgol y Gyfraith Harvard ym mis Ionawr 2013 a 2014. Mae Qingxiu wedi cwblhau pum prosiect a ariannwyd yn y drefn honno gan yr Academi Brydeinig, Swyddfa Dramor, y Gymanwlad a Datblygu (FCDO), yr Adran dros Strategaeth Busnes, Ynni a Diwydiannol (BEIS), Cronfa Newton, a'r Cyngor Prydeinig (PMI) yn ystod y blynyddoedd diwethaf. Mae Qingxiu yn gwasanaethu fel aelod seneddol ym Mhrifysgol Sussex.

Buurma, Niek



Ymlyniad:

Cardiff University, senior lecturer in physical organic chemistry CONNECTS-UK, ACB member

Mae Niek yn gyfarwyddwr Dutch Academic Network in the UK ac yn cynrychioli ymchwilwyr o'r Iseldiroedd sy'n gweithio yn y DU fel aelod o ACB CONNECTS-UK.

Cyfryngau cymdeithasol:

Twitter: @NiekBuurmaH2O

Bluesky: @niekbuurmah2o.bsky.social

Linkedin: <https://www.linkedin.com/in/niek-buurma-3a94984/>

Cofiant:

Mae Niek yn uwch ddarlithydd mewn cemeg organig ffisegol ym Mhrifysgol Caerdydd ond fe'i magwyd yn yr Iseldiroedd, wedi'i hamgylchynu gan ddŵr. Nid yw'n syndod felly bod ei ymchwil wedi'i anelu at ddeall adweithiau a rhyngweithiadau mewn hydoddiannau dyfrllyd. Mae themâu ymchwil tîm Niek yn cynnwys astudiaethau o fecanweithiau adwaith cemegol, datblygu biosynwryddion, a datblygu offer cost-ffeithiol ar gyfer awtomeiddio cemeg. Mae'r themâu ymchwil hyn wedi arwain yn rhesymegol at ddatblygiad cyflenwol o ddulliau dadansoddi data ar gyfer systemau adweithiau a rhyngweithiadau cymhleth - ac felly diddordeb mewn dysgu peirianyddol.

Flach, Peter A.



Ymlyniad: Professor of Artificial Intelligence, [Intelligent Systems Laboratory](#), [School of Computer Science](#), [University of Bristol](#)

Cyfyngau cymdeithasol: <http://people.cs.bris.ac.uk/~flach/>

Teitl y cyflwyniad: "Generative AI in Research: Tool or Threat?"

Cofiant:

Ymunodd Peter Flach â'r Ysgol Cyfrifiadureg ym Mhrifysgol Bryste ym 1997 a chafodd ei ddyrchafu'n Athro Deallusrwydd Artiffisial yn 2003. Yn ysgolhaig sy'n flaenllaw yn rhyngwladol ym maes gwerthuso a gwella modelau dysgu peirianyddol, mae hefyd wedi cyhoeddi ar gloddio data hynod strwythuredig, ar AI a yrrir gan wybodaeth ac y gellir ei esbonio, ac ar fethodoleg gwyddor data. Mae ei lyfrau yn cynnwys "Simply Logical: Intelligent Reasoning by Example" (John Wiley, 1994; argraffiad ar-lein rhyngweithiol, 2022) a "Machine Learning: the Art and Science of Algorithms that Make Sense of Data" (Cambridge University Press, 2012), y mae'r olaf, hyd yma, wedi gwerthu dros 20,000 o gopiâu ac wedi sefydlu ei hun fel cyfeiriad allweddol mewn dysgu peirianyddol gyda chyfieithiadau i Rwsieg, Mandarin a Japaneeg.

Rhwng 2010 a 2020, roedd yr Athro Flach yn Brif Olygydd y cyfnodolyn "Machine Learning", un o'r ddau brif gyfnodolyn yn y maes sydd wedi'i gyhoeddi ers dros 25 mlynedd gan Kluwer ac sydd bellach yn cael ei gyhoeddi gan Springer-Nature. Ef oedd Cyd-Gadeirydd Rhaglen 1999 "International Conference on Inductive Logic Programming", "European Conference on Machine Learning" 2001, "ACM Conference on Knowledge Discovery and Data Mining" 2009, a "European Conference on Machine Learning and Knowledge Discovery in Databases" ym Mryste. Mae'n aelod o fwrdd sefydlu, cyn Lywydd ac Is-lywydd presennol y "European Association for Data Science". Mae'n Gymrawd o'r "European Lab for Learning and Intelligent Systems", ac o'r "European Association for Artificial Intelligence". Ef oedd cyfarwyddwr sefydlu "UKRI Centre for Doctoral Training in Interactive Artificial Intelligence" UKRI, ac ar hyn o bryd mae'n cyfarwyddo "UKRI AI Centre for Doctoral Training in Practice-Oriented Artificial Intelligence".

Mae gan yr Athro Flach hanes cryf o gydweithio yn y byd academaidd ac mewn diwydiant. Ym Mryste bu'n cydweithio â chydweithwyr ym maes Peirianeg ar y prosiect SPHERE, gyda chydweithwyr ym maes Gwyddor Iechyd y Boblogaeth yn yr "Integrated Epidemiology Unit" a ariennir gan yr MRC, ac eraill. Mae cydweithrediadau rhyngwladol yn cynnwys Prifysgol Monash, Prifysgol Polytechnig Valencia, Prifysgol Strasbourg, Prifysgol Tartu, a sawl prifysgol ym Mrasil. Yn fwyaf diweddar bu'n arwain y pecyn gwaith ar "Network Working in the TAILOR European network of AI excellence centres". Mae cydweithwyr anacademaidd yn cynnwys LV=, QinetiQ, a dros 20 o bartneriaid yn y "Practice-Oriented AI CDT". Mae'r Athro Flach yn aelod o Fwrdd Ymgynghorol XMOS.

Fumarola, Anna



Ymlyniad: Project Manager at CONNECTS-UK

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Cofiant:

Fel Cyfarwyddwr Cyfathrebu HISPASAT (Madrid), gweithredwr awyrofod, roedd Anna Fumarola yn gyfrifol, ymhlith eraill, am gydlynu gwahanol raglenni cydweithredu gwyddonol yr adran Ymchwil ac Arloesedd gyda chanolfannau ymchwil cenedlaethol a rhyngwladol eraill o fewn fframwaith polisi'r UE.

Yn ddiweddarach, fel Cynghorydd Cysylltiadau Allanol a Swyddog Rhaglen UNAIDS (Rhaglen ar y Cyd y Cenhedloedd Unedig ar HIV/AIDS) a Merched y Cenhedloedd Unedig ym Mhacistan, bu'n ymwneud â pholisi ac eiriolaeth ar gyfer agenda menywod, heddwch a diogelwch y Cenhedloedd Unedig (WPS).

Unwaith yn ôl yn Sbaen, ymunodd Anna Fumarola â Sefydliad Woman for Africa fel Uwch Reolwr Prosiect, lle symudodd o bolisi i ymarfer a gweithredu gyda nifer o weithgareddau meithrin gallu wrth ddatrys gwrthdaro ym Mali ar gyfer menywod lleol.

Sefydlodd ac arweiniodd ddwy raglen ôl-ddoethurol fawr yn targedu ymchwilwyr benywaidd Affricanaidd wrth weithredu diplomyddiaeth wyddonol gyda lens rhyw gref gyda llysgenadaethau Sbaen yn Senegal, y Deyrnas Unedig, De Affrica, Mozambique, Nigeria a Morocco.

Mae Anna Fumarola wedi ymgynghori mewn polisi rhywedd ar gyfer nifer o brosiectau a rhaglenni sefydliadau preifat, cyhoeddus a rhyngwladol, megis Casa Asia a Council Foundation Sbaen-India, ynghylch dylunio a gweithredu rhaglenni rhyw sy'n gyson ag amcanion actorion y wladwriaeth (fel y Gweinyddiaeth Materion Tramor Sbaen) a pholisïau cyfrifoldeb corfforaethol cymdeithasol yr ymddiriedolwyr.

Palombo, Marco



Ymlyniad: Canolfan Ymchwil Delweddu'r Ymennydd Prifysgol Caerdydd (CUBRIC), School of Psychology, Cardiff University & School of Computer Science and Informatics, Prifysgol Caerdydd - Associate Professor

Cyfryngau cymdeithasol:

Twitter: @MarcoPalombo3;

LinkedIn: Marco Palombo

Teitl y cyflwyniad: "Towards Democratized and Sustainable Medical Imaging through AI"

Cofiant:

Mae Marco Palombo yn Athro Cyswllt ac yn UKRI Future Leaders Fellow mewn "microstructure imaging" yng Nghanolfan Delweddu Ymchwil yr Ymennydd Prifysgol Caerdydd (CUBRIC), lle mae'n cyd-arwain y grŵp MicroTeam ac yn yr Ysgol Cyfrifiadureg a Gwybodeg lle mae'n cyd-arwain. -arwain y grŵp Cyfrifiadura Delwedd Feddygol. Gyda chefnidir mewn Ffiseg, mae Dr. Palombo yn arbenigo mewn modelu bioffisegol, dysgu peirianyddol, modelu cyfrifiannol, delweddu meddygol, a dadansoddi data. Mae ei raglen ymchwil yn integreiddio modelu cyfrifiannol a bioffisegol gyda MRI a thechnegau dysgu peirianyddol modern i ddatblygu technolegau delweddu gofal iechyd cenhedlaeth nesaf gyda'r nod o hyrwyddo diagnosis cynnar a phrognosis o gyflyrau niwrolegol a seiciatrig.

Parra, R. Gonzalo



Ymlyniad: Barcelona Supercomputing Center.

Cyfryngau cymdeithasol:

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Teitl y cyflwyniad: "Local Frustration: A computational biophysics-based strategy to understand proteins and its implications for biomedicine"

Cofiant:

Astudiodd Dr. Gonzalo Parra Biowybodeg yn Universidad Nacional de Entre Rios yn yr Ariannin a chafodd ei PhD o Brifysgol Buenos Aires (Ariannin), ym maes bioffiseg gyfrifiadol o dan oruchwyliaeth yr Athro Diego Ferreira. Ar ôl y PhD, gwnaeth Gonzalo ddwy gymrodoriaeth ôl-ddoethurol yn yr Almaen. Yn gyntaf, cymrodoriaeth ôl-ddoethurol hirdymor EMBO yng ngrŵp Dr. Johannes Soeding yn Sefydliad Max Planck ar gyfer Cemeg Bioffisegol yn Goettingen. Wedi hynny, ymunodd â grŵp yr Athro Oliver Stegle yn EMBL Heidelberg. Yn ystod y blynyddoedd hyn dargyfeiriodd Gonzalo i faes amlomeg ungel i ddatblygu offer i ddeall prosesau deinamig megis datblygiad embryonig a gwahaniaethu cellog yn ogystal â deall sail foleciwlaidd clefyd Medulloblastoma. Ers 2021 mae'n rhan o grŵp yr Athro Alfonso Valencia lle mae'n arwain tîm bach sy'n canolbwyntio ar astudio perthnasoedd dilyniant-strwythur-dynameg-swyddogaeth mewn proteinau i ddeall eu hesblygiad, eu dyluniad a'u rhan mewn afiechyd. Eleni, mae Gonzalo wedi derbyn grant Ramon y Cajal a bydd yn dod yn dod yn arweinydd grŵp iau yn 2025.

Yn ogystal, mae Gonzalo yn rhan o arweinyddiaeth y Gymdeithas Ryngwladol ar gyfer Bioleg Gyfrifiadurol, cymuned 3DBioinfo o Elixir ac yn cydweithio â mentrau Bioinfo4Women a Queer Group yn BSC.

Petersen, Ole H



Ymlyniad: CBE FRS, Director Academia Europaea Hub, Cardiff University. Professor of Physiology at Cardiff University.

Cyfryngau cymdeithasol:

<https://aecardiffknowledgehub.wales/>

Teitl y cyflwyniad: "Introductory Remarks: AI: the new Frontier"

Cofiant:

Ole H Petersen CBE FRS, Cyfarwyddwr Academia Europaea Hub, Prifysgol Caerdydd
Mae Ole Petersen yn Athro Ffisioleg ym Mhrifysgol Caerdydd. Yn 2010, olynodd y Llawryfog Nobel Syr Martin Evans FRS fel Cyfarwyddwr Ysgol Biowyddorau Caerdydd. Cyn hynny, daliodd Gadair Ffisioleg George Holt ym Mhrifysgol Lerpwl (1981–2009). Graddiodd mewn Meddygaeth o Brifysgol Copenhagen yn 1969 a daeth yn Athro Cynorthwyol ac yna'n Athro Cyswllt yn Copenhagen nes iddo gael ei benodi'n Athro Ffisioleg Symers ym Mhrifysgol Dundee (1975-1981). Darganfu sianeli ïon a'u rôl hollbwysig wrth reoli trafndiaeth epithelial, a gyhoeddwyd mewn cyfres o 14 o bapurau Natur, yn y 1970au a'r 1980au ac, yn y 1990au, darganfu digwyddiadau signalau isgellog Ca^{2+} a'u rolau rheoleiddio yn epithelia, a gyhoeddwyd yn 5 erthyglau yn Cell. Mae wedi derbyn llawer o wobrau, gan gynnwys Gwobr Jacobaeus Sefydliad Novo Nordisk, Medal Purkyně yr Academi Wyddoniaeth Tsiec, prif Wobr Walter B Cannon Cymdeithas Ffisiolegol America, Medal Aur Academia Europaea ac, yn fwyaf diweddar, Medal George E Palade a Gwobr y "International Association of Pancreatology" (Kyoto, 2022). Fe'i penodwyd yn "Commander of the Order of the British Empire (CBE)" gan y Frenhines Elisabeth yn 2008 ar gyfer 'Services to Science'. Mae'n Gymrawd/Aelod etholedig o lawer o academïau gwyddoniaeth Ewropeaidd, gan gynnwys y Gymdeithas Frenhinol (FRS), y mae'n gyn Is-lywydd arni, ac Academi Wyddoniaeth Genedlaethol yr Almaen Leopoldina (ML).

Rikap, Cecilia

**Ymlyniad:**

Associate Professor in Economics and the Head of Research of the University College London's Institute for Innovation and Public Purpose

Cyfryngau cymdeithasol:

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Teitl y cyflwyniad: "The political economy of AI: by whom, for what and for whom?"

Cofiant:

Mae Dr. Cecilia Rikap yn Athro Cyswllt mewn Economeg ac yn Bennaeth Ymchwil yn "Institute for Innovation and Public Purpose of the University College London (UCL)". Tan ymuno ag UCL, roedd yn Uwch Ddarlithydd mewn Economi Wleidyddol Ryngwladol (IPE) yn City, Prifysgol Llundain ac yn gyfarwyddwr rhaglen y BSc mewn IPE yn yr un brifysgol. Mae hi'n ymchwilydd deiliadaeth i'r CONICET, cyngor ymchwil cenedlaethol yr Ariannin, ac yn ymchwilydd cyswllt yn labordy COSTECH, Université de Technologie de Compiègne. Rikap yw awdur y llyfr arobryn "Capitalism, Power and Innovation: Intellectual Monopoly Capitalism Uncovered" a chyd-awdur y llyfr "The Digital Innovation Race" lle mae Rikap a'i chyd-awdur yn rhagweld gwleidyddiaeth ac economeg AI yr ydym yn tystio heddyw. Mae ymchwil Cecilia wedi'i gwreiddio yn economi wleidyddol ryngwladol gwyddoniaeth a thechnoleg ac economeg arloesi. Mae hi'n astudio'r crynodiad cynyddol o asedau anniriaethol sy'n arwain at ymddangosiad monopoliâu deallusol ymhlith eraill o'r diwydiannau digidol a pharma. Mae ei hymchwil yn amlygu dosbarthiad anghyfartal rhenti deallusol (gan gynnwys data) ac effeithiau monopoleiddio deallusol ar y tiroedd comin gwybodaeth, datblygiad a thensiynau geopolitical cynyddol. Mae ei gwaith diweddaraf yn canolbwyntio ar ddeallusrwydd artifisial a'r cwmwl, goruchafiaeth cwmnïau Big Tech o'r technolegau hyn, eu cydadwaith â chorfforaethau rhyngwladol eraill ac effeithiau monopoleiddio deallusol estynedig Big Tech ar sofraniaeth ddigidol. Mae gan Rikap brofiad o gynghori llunwyr polisi yn yr Ariannin, Brasil, Ffrainc, y Deyrnas Unedig a'r Unol Daleithiau yn ogystal â dwsinau o sefydliadau cymdeithas sifil ar y materion hyn.

Roos, Teemu



Ymlyniad:

Professor of Computer Science, University of Helsinki & Finnish Center for AI (FCAI)

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Teitl y cyflwyniad: "Technology Education for the Generation AI: From AI Literacy to AI Agency"

Cofiant:

Mae Teemu Roos yn Athro Cyfrifiadureg ym Mhrifysgol Helsinki ac yn Arweinydd y rhaglen Addysg AI yn y "Finnish Centre for AI (FCAI)". Mae Roos hefyd yn brif hyfforddwr y cwrs ar-lein "Elements of AI" sydd wedi dros 1.4 miliwn o ddefnyddwyr ac mae wedi'i raddio fel MOOC cyfrifiadureg gorau'r byd. Yn flaenorol, mae wedi dal swyddi ymweld yn UC Berkeley, MIT, a Phrifysgol Caergrawnt.