



# YEARS OF IDEAS

Discover with us science and solutions for the world of tomorrow across our research areas

A new lecture series with researchers of the University of Luxembourg



**This year marks the 20<sup>th</sup> anniversary of the University of Luxembourg, and we have many reasons to celebrate. What began as an academic startup, is now an international research university with a distinctly multilingual and interdisciplinary character.**

**This new lecture series was organised on the occasion of our anniversary with the aim of presenting the research activities at the University of Luxembourg to a wide audience.**

**Join and discover cutting-edge science and solutions for the world of tomorrow! Lectures will be held in different languages and at a range of venues. Open to all and free of charge, with topics from across our research areas.**

**Here's to the next 20 years!**

**For more information:  
[20years.uni.lu](https://20years.uni.lu)**



THURSDAY

21 | SEP | 23

Belval  
Campus

17.30

Prof. Dr. Gilbert Fridgen

**KI und Krypto: Utopie, Dystopie und der  
schmale Grat dazwischen**

WEDNESDAY

27 | SEP | 23

Belval  
Campus

Prof. Dr. Hugo Parlier

**The simplicity of complexity: the art of  
unpuzzling mathematics**

TUESDAY

03 | OCT | 23

Neumünster  
Abbey

Prof. Dr. Binyamin Mantin

**Supply chain resilience: What have we Learned**

TUESDAY

10 | OCT | 23

Neumünster  
Abbey

Prof. Dr. Paul Wilmes

**Mikrobiom – wéi beaflosst dës on-sichtbar Welt eis  
Gesondheet?**

MONDAY

16 | OCT | 23

Neumünster  
Abbey

Véronique Faber

**So wie heute und doch ganz anders: Die Schueberfouer  
von 1945 bis 1975**

TUESDAY

17 | OCT | 23 **Belval  
Campus**

Prof. Dr. Till Dembeck

**Ethics is not enough! How to React to Digital Transformation**

MONDAY

23 | OCT | 23 **Neumünster  
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Prof. Dr. Christos Koulovatianos

**Housing markets in Luxembourg, Prospects and Challenges**

TUESDAY

24 | OCT | 23 **Belval  
Campus**

Dr. Elisabeth Letellier

**Cancer du colon: que fait la recherche?**

MONDAY

30 | OCT | 23 **Belval  
Campus**

Prof. Dr. Djamila Aouada

**AI-powered Computer Vision: To the Moon and Back**

TUESDAY

21 | NOV | 23 **Weicker  
building**

Prof. Dr. David Hiez

**Enjeux de la modernisation du code civil  
pour le Grand-Duché**

THURSDAY

23 | NOV | 23 **Belval  
Campus**

Prof. Dr. Markus Hesse

**This country is punching far beyond its weight. What  
it means to be small but global – a view from geography**

MONDAY

27 | NOV | 23 **Neumünster  
Abbey**

Prof. Dr. Michael Heneka

**Alzheimer Krankheit: wie Sie verhindert werden kann!**

THURSDAY

30 | NOV | 23 **Neumünster  
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Prof. Bradley Ladewig

**Is Hydrogen really the energy of the future?**

WEDNESDAY

06 | DEC | 23 **Belval  
Campus**

Prof. Dr. Luc Nijs

**Reimagining Music Education in the Digital Era:  
The Power of Transformation**

WEDNESDAY

10 | JAN | 24 **Belval  
Campus**

Dr. Laura Steil,

Dr. Joëlla van Donkersgoed

**“Volleksgeschicht” zu Lëtzebuerg: sënnavoll  
Verbindunge mat Leit maachen (GER/LUX)**

TUESDAY

11 | JAN | 24 **Weicker  
building**

Prof. Dr. Andreas Irmen

**The World Economic History in 4 Figures,  
1 Photo, and 1 Table**

THURSDAY

18 | JAN | 24 **Belval  
Campus**

Prof. Dr. Christine Schiltz

**Thinking about “20” in a multilingual world**

WEDNESDAY

**24 | JAN | 24** Belval  
Campus

Prof. Dr. Aurélia Chenu

**Plonger dans le monde quantique: de la curiosité aux applications**

FRIDAY

**02 | FEB | 24** Belval  
Campus

Aida Horaniet Ibañez

Daniel Richter

Dr. Joëlla Van Donkersgoed

**Rue du Brill 1922-2022: visualisation des archives historiques pour les citoyens / Visualisierung des Historischen Archivs für Die Bürger (FR/GER/LUX)**

TUESDAY

**06 | FEB | 24** Neumünster  
Abbey

Prof. Dr. Dirk Andreas Zetzsche

**Financial Inclusion and Sustainability – Issues and Regulatory Solutions**

THURSDAY

**15 | FEB | 24** Belval  
Campus

Prof. Dr. Justin J. W. Powell

**Responding to global models and European norms: Founding the University of Luxembourg**

THURSDAY

**29 | FEB | 24** Belval  
Campus

Dr. Réka Markovich

**The Do's and Don'ts for Future Robots**

# 20 YEARS OF IDEAS



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THURSDAY  
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## KI und Krypto: Utopie, Dystopie und der schmale Grat dazwischen

Prof. Dr. Gilbert Fridgen

Belval, Maison des Sciences Humaines, Black Box

From 17.30

Lecture held in German

[Website](#)



# KI und Krypto: Utopie, Dystopie und der schmale Grat dazwischen

Prof. Dr. Gilbert Fridgen

Full professor in Digital Financial Services / Paypal-FNR

PEARL Chair

Interdisciplinary Centre for Security, Reliability and Trust

FINATRAX

## Abstract

Jüngste Fortschritte in digitalen Technologien haben öffentliche Diskussionen ausgelöst wie nie zuvor. Die einen preisen Kryptowährungen und „Decentralised Finance“ als Weg zur grundlegenden Neugestaltung des Finanzsystems, während andere deren Energieverbrauch kritisieren und deren Mehrwert in Frage stellen. Die einen erwarten, dass generative KI-Lösungen wie ChatGPT die Arbeits- und Kreativwelt verändern werden, während andere Fragen zum Urheberrecht stellen oder die Schwächen aktueller Lösungen bewusst vorführen, indem sie falsche, unethische oder sogar gefährliche Ergebnisse produzieren. Professor Fridgen wird beide Perspektiven diskutieren und aufzeigen, wie soziotechnische Forschung eine ausgewogenere Sicht auf IT-Innovationen bieten kann – einschließlich einer möglichen zukünftigen Integration von KI und Krypto.

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WEDNESDAY  
**27 | SEP | 23**

## The simplicity of complexity: the art of unpuzzling mathematics

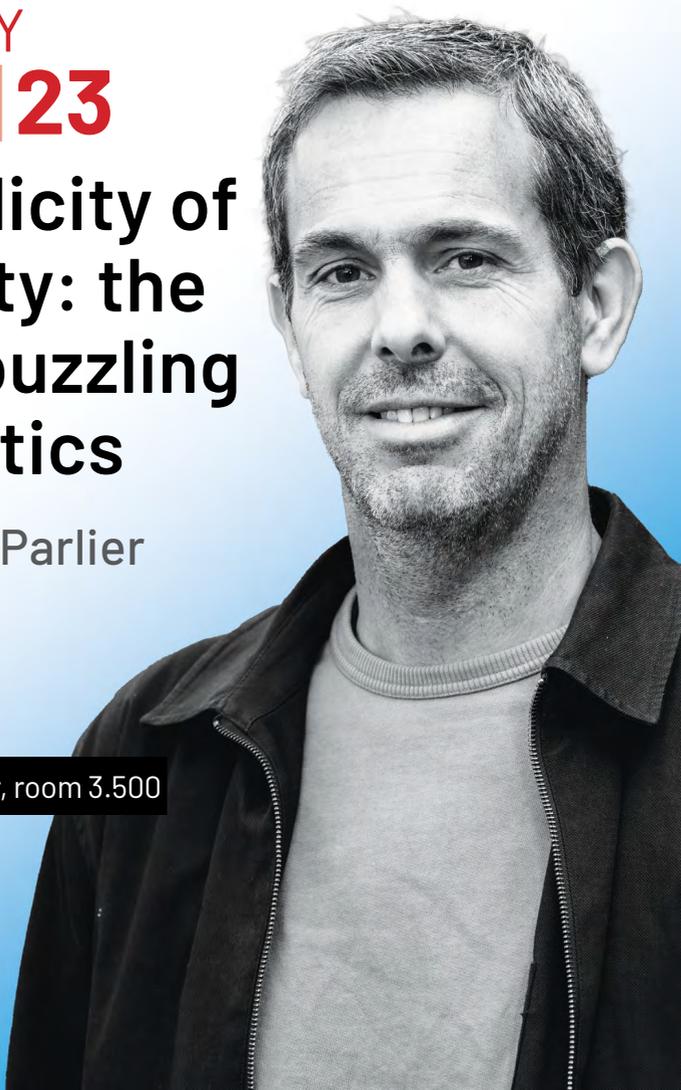
Prof. Dr. Hugo Parlier

Belval, Maison du Savoir, room 3.500

From 18.00 to 19.00

Lecture held in English

[Website](#)



# The simplicity of complexity: the art of unpuzzling mathematics

Prof. Dr. Hugo Parlier

Full professor in Mathematics – Analysis  
Faculty of Science, Technology and Medicine  
Department of Mathematics

## Abstract

This talk will be about projects aiming to illustrate geometry and, more generally, the processes of mathematical research through puzzles. The puzzles are played following simple rules on tiled surfaces using ideas stemming from the math of combinations, shapes and space. In the background, associated to each puzzle is a “puzzle space”: it is the network you travel in while playing the puzzle. These spaces can be visualized, studied, and have all sorts of interesting properties.

From simple, to difficult, to potentially impossible, these puzzles allow you to experience the birth of mathematical complexity.

The Quadratis puzzles were created and brought to life with Paul Turner, Mario Gutiérrez and Reyna Juárez (see [quadratis.app](#)).

The Involution and Revolution puzzles were created together with Bruno Teheux.

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TUESDAY  
**03 | OCT | 23**

## Supply chain resilience: What have we Learned

Prof. Dr. Binyamin Mantin

Neumünster Abbey

From 18.00 to 19.00

Lecture held in English

[Website](#)



# Supply chain resilience: What have we Learned

Prof. Dr. Binyamin Mantin

Full professor in Supply Chain Management and Logistics  
Faculty of Law, Economics and Finance  
Department of Economics and Management

## **Abstract**

Global supply chains can face diverse disruptive events, such as environmental and climate events, financial variations or, as witnessed recently, a pandemic. The ability of a supply chain to both resist disruptions and to recover operational capability after the disruption is called supply chain resilience. There is growing need for supply chains to be more flexible to be able to react and quickly adapt to potential disruptions.

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## Mikrobiom – wéi beaflosst dës on-siichtbar Welt eis Gesondheet?

Prof. Dr. Paul Wilmes

Neumünster Abbey

From 18.00 to 19.00

Lecture held in Luxembourgish

[Website](#)



# Mikrobiom – wéi beaflosst dës on-siichtbar Welt eis Gesondheet?

Prof. Dr. Paul Wilmes

Professor of Systems Ecology

Head of the Systems Ecology Research Group

Deputy Director of the Luxembourg Centre for Systems Biomedicine

## Abstract

Souwuel bannend wéi baussend eisem Kierper leeft eng riseg Varietéit vu Mikroorganismen, déi kollektiv als Mikrobiom bezeechent ginn. Et handelt sech ëm Bakterien, Pilzen, Viren an aner Mikroben. Si spillen eng wesentlech Roll bei der Verdauung, der Entwécklung vum Immunsystem an der Gesondheet am Allgemengen. An de leschte Joren ass besonnesch den Darmmikrobiom mat ville Krankheeten associéiert ginn, vun Diabetes bis Autismus, vu Kriibs bis Neurodegeneratioun.

A sengem Virtrag gëtt de Prof. Paul Wilmes en Iwwerbléck iwwer de mënschleche Mikrobiom a seng Roll, wéi et am Luxembourg Centre for Systems Biomedicine vun der Universitéit Lëtzebuerg studéiert gëtt a wéi en Afloss op d'Gesondheet a Krankheeten kann hunn. Hien presentéiert Beispiller aus rezente Fuerschungsstudien z.B. iwwert:

- wéi d'Aart a Weis wéi mir gebuer ginn, d'Entwécklung vum Mikrobiom bei Puppelcher beaflossen,
- wéi eng Kombinatioun vu Mikroben an Ernährung d'Entwécklung vu Darmkriibs a Parkinson ka beaflossen,
- wat de Mikrobiom eis iwwer déi fréi Stadien vun neurodegenerative Krankheeten wéi Parkinson and Alzheimer ka soen, an
- wéi mir Afloss op de Mikrobiom kënnen huelen fir gesond ze bleiwen.

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## So wie heute und doch ganz anders: Die Schueberfouer von 1945 bis 1975

Véronique Faber

Neumünster Abbey

From 18.00 to 19.00

Lecture held in German

[Website](#)



# So wie heute und doch ganz anders: Die Schueberfouer von 1945 bis 1975

Véronique Faber

Doctoral researcher

Luxembourg Centre for Contemporary and Digital History (C<sup>2</sup>DH)

Contemporary History of Luxembourg

## Abstract

Die Schueberfouer ist der größte Jahrmarkt in Luxemburg, der alljährlich gegen Ende des Sommers auf dem Glacis Feld in der Hauptstadt stattfindet. In Luxemburg haben zahlreiche Menschen persönliche Erinnerungen an Besuche und Erlebnisse auf diesem Jahrmarkt, und es wird vielfach über seine historische Bedeutung geschrieben, dessen Ursprünge bis ins Jahr 1340 zurückreichen.

Eine interdisziplinäre Studie im Rahmen des Popkult60-Projekts, will die Geschichte der Schueberfouer in den langen 1960er vertiefen und die nationalen, transregionalen und transnationalen Verflechtungen und die Veränderungen dieser populären Veranstaltung aufzeigen.

Während ihres Vortrags wird die Doktorandin Véronique Faber den Ansatz ihrer Forschungsarbeit erläutern, und das Publikum in die 1960er Jahre einladen, eine Schueberfouer zu besuchen, die mit anderen Attraktionen aufwartete als diejenigen, die uns heute vertraut sind.

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## Ethics is not enough! How to React to Digital Transformation

Prof. Dr. Till Dembeck

Belval, Maison des Sciences Humaines, Black Box

From 18.00 to 19.00

Lecture held in English

[Website](#)



# Ethics is not enough! How to React to Digital Transformation

Prof. Dr. Till Dembeck

Associate professor

Faculty of Humanities, Education and Social Sciences

Department of Humanities

## **Abstract**

Media have a resounding effect on social relations. For example, the emergence of modern society resulted from the invention of the printing press. Today, many anticipate that 'digitalisation' will have similarly far-reaching effects, and this often leads to ethical reactions: ethics is to align digital technology with 'human' values. This reaction, however self-evident it may seem, must be questioned: not only is the 'ethification' of digital technologies a comparably weak reaction, worse, it impedes a clear-sighted assessment of the societal revolution underway. This lecture aims at offering a more sober, though potentially 'unethical,' look at the affordances of digital media.

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## Housing markets in Luxembourg, Prospects and Challenges

Prof. Dr. Christos  
Koulovatianos

Neumünster Abbey

From 18.00 to 19.00

Lecture held in English

[Website](#)



# Housing markets in Luxembourg, Prospects and Challenges

Prof. Dr. Christos Koulovatianos

Faculty of Law, Economics and Finance  
Department of Finance

## **Abstract**

Luxembourg is one of the countries with the highest household leveraging on private debt and mortgage loans. Since long ago, there is a growing discrepancy between rental costs and house prices, leading to a potential economy-wide exposure to external shocks, such as energy shocks. With real estate being in the balance sheets of households, companies, and banks, the risk of a housing bubble and subsequent burst is systematic: a sudden drop in house prices can trigger a major economy-wide crisis. Concepts and principles on how to detect exposures and how to influence housing-cost dynamics through policy will be presented.

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TUESDAY  
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## Cancer du colon: que fait la recherche?

Dr. Elisabeth Letellier

Belval, Maison du Savoir, room 3.510

From 18.00 to 19.00

Lecture held in French

[Website](#)



# Cancer du colon: que fait la recherche?

Dr. Elisabeth Letellier

Professeur assistant

Faculty of Science, Technology and Medicine

Department of Life Sciences and Medicine

## **Abstract**

Le cancer colorectal (CCR) est la deuxième cause de décès liés au cancer dans le monde et des études récentes prédisent que l'incidence et la mortalité du CCR augmenteront considérablement au cours des prochaines années. Ces chiffres soulignent la nécessité d'une réponse plus rapide dans les domaines du traitement, des soins de santé et de la prévention. Au Luxembourg, nous menons activement des recherches dans le domaine du CCR avec un accent particulier sur l'identification de nouveaux biomarqueurs ainsi que sur le développement de nouvelles thérapies. Au cours de ce séminaire, j'exposerai les différents projets de recherche nationaux sur le CRC et montrerai les dernières avancées dans le domaine.

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MONDAY  
**30 | OCT | 23**

## AI-powered Computer Vision: To the Moon and Back

Prof. Dr. Djamila Aouada

Belval, Maison des Sciences Humaines, Black Box

From 18.00 to 19.00

Lecture held in English

**Website**



# AI-powered Computer Vision: To the Moon and Back

Prof. Dr. Djamila Aouada

Assistant professor

Interdisciplinary Centre for Security, Reliability and Trust  
CVI2

## Abstract

This talk is an invitation to embark on a journey through AI-powered computer vision, transcending boundaries – from terrestrial applications that enhance industries such as healthcare, manufacturing, and surveillance to extraterrestrial endeavours like space situational awareness and remote sensing.

As we navigate through tasks including image recognition, object detection, and pose estimation, we will showcase real-world applications, highlighting the latest success stories but also the technical challenges that are yet to be solved. While the rapid progress in these technologies has led to unprecedented capabilities and opportunities, we will also touch on important questions about their limitations, privacy concerns and ethical considerations.

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## Enjeux de la modernisation du code civil pour le Grand-Duché

Prof. Dr. David Hiez

Weicker building

From 18.00 to 19.00

Lecture held in French

[Website](#)



# Enjeux de la modernisation du code civil pour le Grand-Duché

Prof. Dr. David Hiez

Full professor

Faculty of Law, Economics and Finance

Department of Law

## Abstract

Le code civil luxembourgeois, introduit du temps où le Luxembourg était un département français, date de 1804. En dehors de réformes limitées, celui-ci n'a pas connu de réforme globale. Les pays voisins ont tous entrepris des réformes ambitieuses et ceci a conduit le Luxembourg à initier un tel projet en 2022. Cette modernisation n'est pas une évidence. Elle soulève des questions communes à tous les pays (intelligibilité du droit, adaptation aux évolutions sociales, économiques...). Mais elle présente des interrogations particulières au Grand-Duché: le pays a-t-il besoin et les moyens d'un droit totalement autonome? Quelles sont ses valeurs spécifiques qui pourraient inspirer un tel droit?

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THURSDAY  
**23 | NOV | 23**

This country is punching far beyond its weight. What it means to be small but global – a view from geography

Prof. Dr. Markus Hesse

Belval, Maison des Sciences Humaines, Black Box

From 18.00 to 19.00

Lecture held in English

[Website](#)



# This country is punching far beyond its weight. What it means to be small but global – a view from geography

Prof. Dr. Markus Hesse

Full professor

Faculty of Humanities, Education and Social Sciences

Department of Geography and Spatial Planning

## Abstract

The quote in the title comes from an expert interview in recent research. It illustrates the foundational fact that Luxembourg has considerably more economic power and dynamism than its size and institutional set-up can accommodate. This is the basic problem that runs through all development and planning conflicts, reinforced by institutional and procedural complexity and inertia. Appropriate strategies need to be structural. However, current practice is constrained by three different sorts of illusion: a growth illusion; a steering illusion; and a sustainability illusion. The lecture will close by reflecting upon some thoughts on how to address structural challenges.



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MONDAY  
**27 | NOV | 23**

## Alzheimer Krankheit: wie Sie verhindert werden kann!

Prof. Dr. Michael Heneka

Neumünster Abbey

From 18.00 to 19.00

Lecture held in German

[Website](#)



# Alzheimer Krankheit: wie Sie verhindert werden kann!

Prof. Dr. Michael Heneka

Director of the Luxembourg Centre for Systems Biomedicine

## Abstract

Die Alzheimer Krankheit ist die häufigste neurodegenerative Erkrankung unserer Zeit. Die demographischen Veränderungen unserer Gesellschaft wird in den kommenden Jahren und Jahrzehnten zu einem rapiden Anstieg der Fallzahlen führen. Von derzeit ca. 44 Millionen Alzheimerkranken weltweit wird diese Fallzahl im Jahr 2050 auf ungefähr 150 Millionen ansteigen. Dieser Anstieg an kognitiv eingeschränkten Patienten hat umfassende und tiefgreifende Veränderungen unseres Gesundheitswesens und unserer Lebensumstände zur Folge. Die Alzheimer Krankheit betrifft nicht nur unmittelbar den Patienten, sondern beeinflusst die pflegenden Partner und Familienangehörigen massgeblich.

Klinische und epidemiologische Untersuchungen legen nahe, dass durch schon heute durchführbare Massnahmen 1/3 aller Fälle im Jahr 2050 verhindert werden könnten. Zu diesen Massnahmen gehören ausreichende und regelmäßige körperliche Bewegung, die Einhaltung eines normalen Körpergewichts, die Regulierung von Blutdruck sowie spezielle diätische Massnahmen. Regelmäßige geistige Betätigung schützt ebenfalls vor der Entwicklung und dem raschen Fortschreiten einer Alzheimer Krankheit. Der Vortrag wird neben neuen diagnostischen Möglichkeiten und pharmakologischen Therapien genau die schützenden Massnahmen beleuchten, die jeder Einzelne bereits heute in Angriff nehmen kann.

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THURSDAY  
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## Is Hydrogen really the energy of the future?

Prof. Bradley Ladewig

Neumünster Abbey

From 18.00 to 19.00

Lecture held in English

[Website](#)



# Is Hydrogen really the energy of the future?

Prof. Bradley Ladewig

Full professor

Faculty of Science, Technology and Medicine

Department of Engineering

## **Abstract**

Our society is in the middle of an enormous transformation towards Net Zero. Our way of living, travelling, working and doing business will all change, and hydrogen will play a key role. From production of green hydrogen, how it will be stored and transported both locally and globally, and how it could be used in transport, manufacturing and the energy landscape will be presented in a lively and easy-to-understand way for the general public.

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WEDNESDAY  
**06 | DEC | 23**

## Reimagining Music Education in the Digital Era: The Power of Transformation

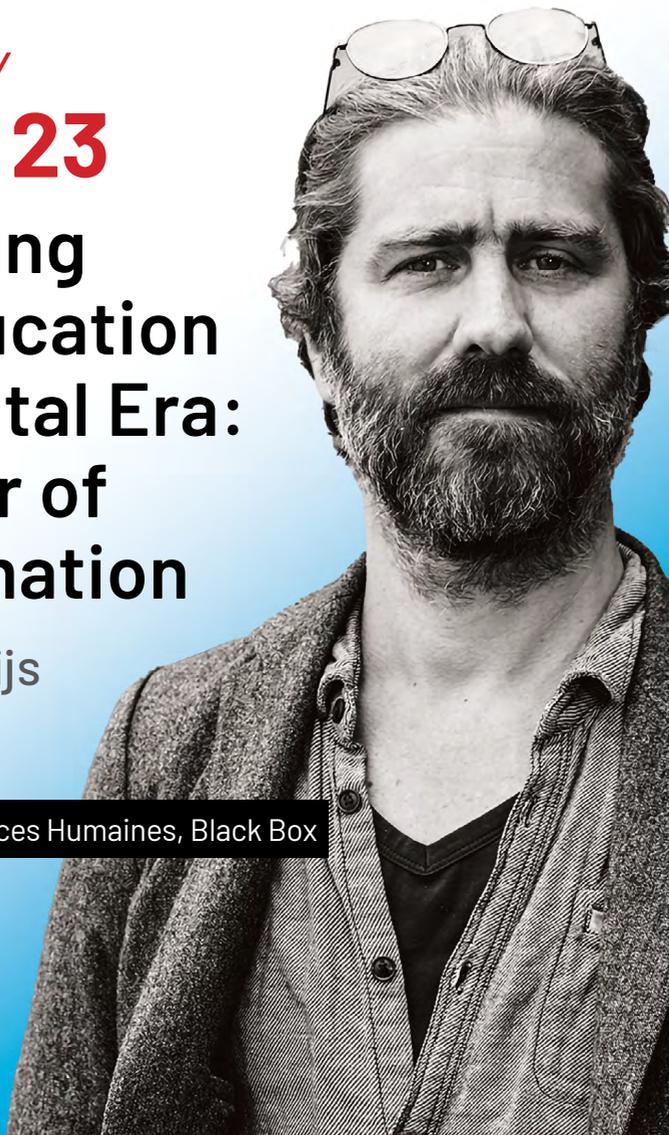
Prof. Dr. Luc Nijs

Belval, Maison des Sciences Humaines, Black Box

From 18.00 to 19.00

Lecture held in English

[Website](#)



# Reimagining Music Education in the Digital Era: The Power of Transformation

Prof. Dr. Luc Nijs

Associate professor in Early Childhood Music Education  
Faculty of Humanities, Education and Social Sciences  
Department of Education and Social Work

## Abstract

The emergence of the Digital Era has revolutionised the world of music. Digital technologies and their adventurous adoption by artists have led to new musical languages and forms of expression, to new ways of playing and sharing music. In addition, digital technologies promote access to music, and one might assume digital practices will transform the way we learn and teach music.

What are the implications and potentialities of the changes for music education?

Among scholars and music educators who embrace digitisation, some envision technology as a way to enhance traditional music education, others as an avenue to reimagine it altogether. Using examples from research and practice, this talk will provoke critical reflection on the nature of music education and its current evolution.

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WEDNESDAY  
**10 | JAN | 24**

## “Volleksgeschicht” zu Lëtzebuerg: sënnvoll Verbindunge mat Leit maachen (GER/LUX)

Dr. Laura Steil

Dr. Joëlla van Donkersgoed



Belval, Maison des Sciences Humaines, Black Box

From 18.00 to 19.00

Lecture held in German and Luxembourgish

[Website](#)

# “Volleksgeschied” zu Lëtzebuerg: sënnvoll Verbindunge mat Leit maachen (GER/LUX)

Dr. Laura Steil

Postdoctoral researcher

Luxembourg Centre for Contemporary and Digital History (C<sup>2</sup>DH)

Digital History and Historiography

Dr. Joëlla van Donkersgoed

Postdoctoral researcher

Luxembourg Centre for Contemporary and Digital History (C<sup>2</sup>DH)

Public History and Outreach

## Abstract

Déi räich sozial, kulturell an industriell Vergaangenheet vun Esch-Uelzecht ass an der Erënnerung vun den Awunner ganz lieweg. D’Joëlla van Donkersgoed an d’Laura Steil, Fuerscher am C<sup>2</sup>DH, hunn zesumme mat de Leit vun Esch historesch Fuerschung gemaach fir eng “Volleksgeschied” ze kreéieren. Bei dëser Presentatioun fokuseieren si seich op dräi Projeten – Escher Kaffi, HistorEsch an Dancing Esch – a beliichten wéi si hir Recherche gemaach hunn. Si konzentreieren sech virun allem op d’Wichtigkee vun der Forschungsethik, weisen op wéi Bezéiungen mat den Individuen an den Gemeinschaften am Zentrum vun Projeten stinn an gin dorop an daat Relatiounen duerch Vertrauen opgebaut gin. Am Kontext vu Lëtzebuerg, wou d’Intimitéit an d’Verbindung an de lokale Communautéiten besonnesch héich sinn, spillen Rapport a Géigesäitegkeet eng wesentlech Roll an der Fuerschungszesummenaarbecht.



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## The World Economic History in 4 Figures, 1 Photo, and 1 Table

Prof. Dr. Andreas Irmen

Weicker building

From 18.00 to 19.00

Lecture held in English

[Website](#)



# The World Economic History in 4 Figures, 1 Photo, and 1 Table

Prof. Dr. Andreas Irmen

Full professor of Macroeconomics and applied Microeconomics  
Faculty of Law, Economics and Finance  
Department of Economics and Management

## Abstract

For most of human history, the world's population was equally poor. The sustained increase in living standards is a recent phenomenon. It affected some countries earlier than others and led to huge discrepancies in the living standards across countries. The time span from 1950 to today is likely to be the greatest period of poverty alleviation in world economic history. Yet, economic growth tends to peter out in the rich countries. Environmental degradation, world population growth, new technologies and a changing geopolitical landscape are key determinants of future living standards and their geographical distribution.

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## Thinking about "20" in a multilingual world

Prof. Dr. Christine Schiltz



Belval, Maison des Sciences Humaines, Black Box

From 18.00 to 19.00

Lecture held in English

**Website**

# Thinking about “20” in a multilingual world

Prof. Dr. Christine Schiltz

Full professor in Cognitive Neuroscience  
Faculty of Humanities, Education and Social Sciences  
Department of Behavioural and Cognitive Sciences

## Abstract

How do we learn the meaning of abstract numerical concepts, such as the number “20”? And how is numerical thinking and learning impacted by the multilingualism prevailing in Luxembourg? The present conference addresses these questions in the light of research on numerical cognition conducted at the University of Luxembourg since its creation in 2003. Combining behavioural experiments and brain imaging, we show that the language used in numerical tasks influences a wide array of domains, such as the way children read numbers or solve arithmetic problems. But even in adults, we find traces of language(s) when they think about and work with numbers.

# 20 YEARS OF IDEAS

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WEDNESDAY  
**24 | JAN | 24**

## Plonger dans le monde quantique: de la curiosité aux applications

Prof. Dr. Aurélia Chenu

Belval, Maison du Savoir, room 3.500

From 18.00 to 19.00

Lecture held in French

[Website](#)



# Plonger dans le monde quantique: de la curiosité aux applications

Prof. Dr. Aurélia Chenu

Associate professor

Faculty of Science, Technology and Medicine

Department of Physics and Materials Science

## Abstract

La nature nous offre des exemples pour inspirer les nouvelles technologies. En commençant par les premiers instants de la photosynthèse, nous verrons quelques-unes des expériences réalisées dans le monde et au Luxembourg pour explorer les propriétés du monde quantique, dans lequel la lumière et la matière sont à la fois ondes et particules. Certaines propriétés, telles la superposition et l'intrication quantique, sont celles que nous recherchons pour faire, par exemple, des ordinateurs quantiques.

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FRIDAY

02 | FEB | 24

Rue du Brill 1922-2022: visualisation des archives historiques pour les citoyens / Visualisierung des Historischen Archivs für die Bürger (FR/GER/LUX)

Aida Horaniet Ibañez

Daniel Richter

Dr. Joëlla Van Donkersgoed



Belval, Maison des Sciences Humaines, Black Box

From 18.00 to 19.00

[Website](#)

Lecture held in French, German, Luxembourgish

# Rue du Brill 1922-2022: visualisation des archives historiques pour les citoyens / Visualisierung des Historischen Archivs für Die Bürger (FR/GER/LUX)

Aida Horaniet Ibañez

Doctoral researcher

Luxembourg Centre for Contemporary and Digital History (C<sup>2</sup>DH)

Digital History and Historiography

Daniel Richter

Doctoral researcher

Luxembourg Centre for Contemporary and Digital History (C<sup>2</sup>DH)

Contemporary History of Luxembourg

Dr. Joëlla van Donkersgoed

Postdoctoral researcher

Luxembourg Centre for Contemporary and Digital History (C<sup>2</sup>DH)

Public History and Outreach

## Abstract

**(F)** “Visualisation des données de recensement de la rue Brill en 1922” est né comme un projet interdisciplinaire expérimental qui favoriserait le dialogue public sur l’histoire. La matérialisation des données de recensement de plus de 100 ménages (près de 500 personnes) vivant dans la rue Brill (Esch-sur-Alzette) en 1922 devait permettre aux habitants actuels de s’intéresser aux données historiques de leur quartier d’une manière nouvelle, créative et ludique.

**(GER)** „Visualisierung des Historischen Archivs für Die Bürger“ wurde als experimentelles interdisziplinäres Projekt ins Leben gerufen, das den öffentlichen Dialog über Geschichte fördern sollte. Die Visualisierung der Volkszählungsdaten von mehr als 100 Haushalten (fast 500 Personen), die 1922 in der Brillstraße (Esch-sur-Alzette) lebten, sollte es den heutigen Bewohnern ermöglichen, sich auf neue, kreative und spielerische Weise mit den historischen Daten ihres Viertels auseinanderzusetzen.

# 20 YEARS OF IDEAS



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TUESDAY  
**06 | FEB | 24**

## Financial Inclusion and Sustainability – Issues and Regulatory Solutions

Prof. Dr.  
Dirk Andreas Zetzsche

Neumünster Abbaye

From 18.00 to 19.00

Lecture held in English

[Website](#)



# Financial Inclusion and Sustainability – Issues and Regulatory Solutions

Prof. Dr. Dirk Andreas Zetsche

Professor in Financial Law, ADA Chair in Financial Law  
Faculty of Law, Economics and Finance  
Department of Law

## Abstract

Climate change is very much in the minds of people and at the core of policy action. The fact that population growth may well counter many effects of pro-climate policy actions is less openly discussed. The lecture focuses on the nexus between financial inclusion and sustainability, and argues that financial inclusion is the best cure not only to address the starvation of several hundred million people globally and further the economic well being of the rest, but also to prepare the world for climate change, and tackle some of its roots. The lecture concludes with an overview of financial inclusion policies in various fields, including Inclusive Green Finance, Gender Inclusion and System Risk Prevention through Financial Inclusion.

# 20 YEARS OF IDEAS



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A new lecture series with researchers of the University of Luxembourg

THURSDAY  
**15 | FEB | 24**

## Responding to global models and European norms: Founding the University of Luxembourg

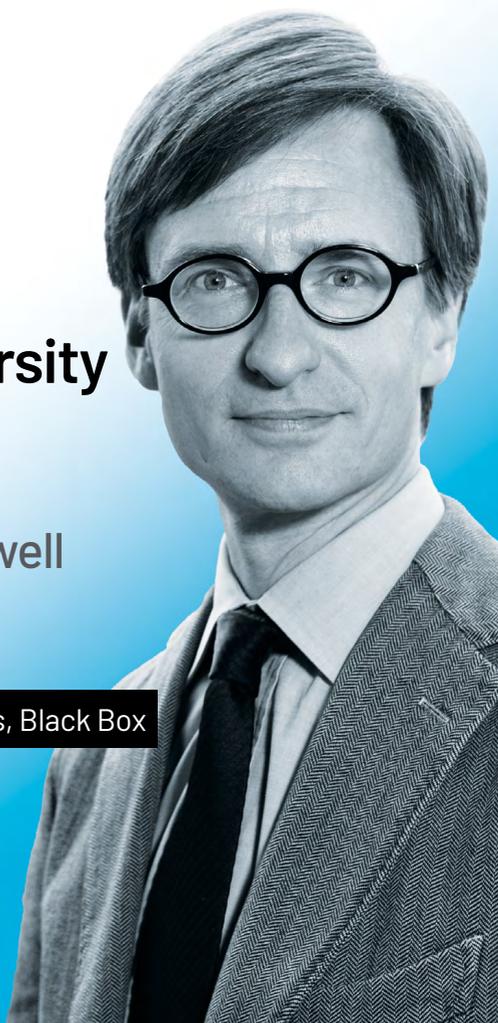
Prof. Dr. Justin J. W. Powell

Belval, Maison des Sciences Humaines, Black Box

From 18.00 to 19.00

Lecture held in English

[Website](#)



# Responding to global models and European norms: Founding the University of Luxembourg

Prof. Dr. Justin J. W. Powell

Full professor

Faculty of Humanities, Education and Social Sciences

Department of Social Sciences

## Abstract

Culturally embedded in the Greater Region and Western Europe, Luxembourg's higher education was transformed when global education expansion and the European pan-Bologna process provided a window of opportunity. The founding of the University of Luxembourg in 2003 reshaped traditions, especially outgoing student mobility, and bolstered intercultural experiences, reflecting the country's super-diversity and multilingual culture. Today, Luxembourg boasts the highest proportions of internationally mobile students and workers with tertiary attainment, while its scientific networks and research collaborations have put Luxembourg on the map in global science. Luxembourg's sustainable development relies on these advances, collectively achieved by its university's diverse scientists, staff, and students.

# 20 YEARS OF IDEAS



Discover with us science and solutions for the world of tomorrow across our research areas

A new lecture series with researchers of the University of Luxembourg

THURSDAY  
**29 | FEB | 24**

## The Do's and Don'ts for Future Robots

Dr. Réka Markovich

Belval, Maison du Savoir, room 3.500

From 18.00 to 19.00

Lecture held in English

[Website](#)



# The Do's and Don'ts for Future Robots

Dr. Réka Markovich

Research scientist

Faculty of Science, Technology and Medicine

Department of Computer Science

## Abstract

As the boundary between sci-fi and reality becomes increasingly blurred, the question of how future robots should behave becomes more and more pressing. Why and how should we think about the governance of these soon-to-be-developed autonomous intelligent agents? In this talk, I will introduce the questions, considerations, and directions of machine ethics: the discipline concerning what principles or rules future machines should obey and how we can make this happen by automating the process called normative reasoning.



