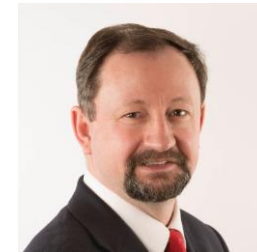


RESEARCH AS A **CONTRIBUTOR** TO STUDENT RECRUITMENT

Justin Shaw, Chief Higher Education Consultant,
Communications Management



Scientists go in to bowl for England

BY ALAN HAMILTON

SCIENTISTS at the University of Hertfordshire have set up a research project to crack the code of an enemy secret weapon that has inflicted great damage on England. Using computers, wind tunnels, the laws of aerodynamics and a large number of cricket balls, they will attempt to discover exactly how the Pakistani bowlers Waqar Younis and Wasim Akram achieve their devastating reverse swing.

Final-year students in aerospace engineering at the university, formerly Hatfield Polytechnic, will be set to work on the project when they return for the new term in October. They hope to have an answer by May, in good time for next year's first-class season.

Andrew Lewis, a lecturer more used to teaching the principles of aircraft performance and stability, decided to seek a scientific explanation after his depart-

ment had received calls from newspapers wanting to know how Waqar and Wasim achieved such odd trajectories with the ball. "We tried to get the answer from the horse's mouth, saying we were engaged in serious research, but the Pakistani officials gave us the brush-off; there is a bit of an atmosphere at the moment," Mr Lewis said yesterday.

"A normal outswing bowler holds the polished side to the right, and angles the seam towards the slips. The net effect is to make the ball move away from the batsman. Waqar keeps the polished side to the right, but the ball swings in to the batsman," Mr Lewis said. "I cannot find a ready explanation for this; he must angle the seam towards fine leg, like an inswing bowler, but an inswing bowler keeps the polished side to the left. One ought to cancel the other out, but it doesn't."

Research will not be easy. According

to Mr Lewis, the airflow patterns round a ball in the wind tunnel will be very small and difficult to measure, and whatever the ball is mounted on may falsify the results.

Some research has already been done on cricketing aerodynamics, but its conclusions are unsatisfactory. Received wisdom states that a new ball swings more than an old because of its more pronounced seam, a law entirely ignored by Waqar, who barely swings the new ball at all.

Cricket balls, according to Mr Lewis, are fickle things, and how they behave is only partially understood. There is, for example, no explanation of why they swing more under cloudy skies than in the sun. Mr Lewis will be happy to make his findings known to the England team next year, but has a suspicion that they will not do them much good.

Cricket reports, page 24



THE TIMES

University of
Hertfordshire **UH**

GLOBAL REVIEW OF RESEARCH COMMUNICATIONS

WHY?

- Greater attention on research communications and its reputational value (stakeholder feedback: knowledge gap).
- Increased interest (by university leaders) in roles, teams and structures that support research communications.
- A movement towards research priorities (versus “cover everything”).

HOW?

- Interviews with those responsible for research communications across universities worldwide – aim is 75.
- Main themes: resourcing; channels/methods; measurement; priorities; innovations.

WHEN?

- Report due out in November 2025.

About

[About](#)[Contact](#)[Communications & Marketing](#)[Directory](#)[Directory](#)[Leadership](#)[Highlights & Rankings](#)[Newsletter](#)[Research Magazine](#)

Research Communications Directory

The Research, Innovation & Impact (RII) Communications team provides services, tools, and guidance to you and your staff - everything you need to tell your compelling story and deliver it to your target audience on paper or online. Our creative staff has the expertise to provide: fliers, posters, brochures, invitations, announcements, swag, development case statements, booklets, banners, annual reports, infographics, PowerPoint presentations, websites, social media posts and videos.



lisaromero@arizona.edu

Administrative Support:
Sam Kornis
samkornis@arizona.edu

Lisa Romero

Assistant Vice President, Marketing and Communications

Lisa Romero leads and manages strategic marketing communications, public affairs, and stakeholder engagement efforts on behalf of the university's research and innovation enterprise. Reporting directly to Elizabeth "Betsy" Cantwell, Senior Vice President for Research and Innovation, Lisa works broadly within RII and across the entire university to develop and manage an integrated marketing and communications strategy to expand awareness of UArizona's research impact and thought leadership. She is recognized for her expertise in collaborating across large and diverse enterprises and is highly connected both on campus and among key RII stakeholders. She is a proven brand builder and native Tucsonan, bringing three decades of experience developing and leading teams across academia, scientific, corporate, and non-profit organizations.

Lisa joined UArizona in 2012 at the BIOS Institute where she built a team focused on advancing brand impact for an interdisciplinary, translational research institute with almost 400 members spanning 75 departments, centers, and institutes across the university. She served as one third of the enterprise wide BIOS leadership team, and created sustainable, meaningful connections and partnerships across the university, community, and state.

Prior to BIOS, Lisa led communications, marketing, and strategic outreach at organizations both here in Tucson and in Tempe, AZ, including: the Critical Path Institute; the Tucson Hispanic Chamber of Commerce; RE/MAX All Executives; Tucson Association of REALTORS; Realty Executives of Tucson; Coldwell Banker Success Realty; and Eagle Management Company. She has also served as a consultant to many other organizations and leaders throughout her career.

Leadership
Research Communications

RII = Research Innovation & Impact

- 15 team members:

- Writers
- Web developers
- Graphic designers
- App creator
- Social media officer (LI)
- Events officer

- Network of 40 communications roles ("All RII Marcomms Group") meets monthly

UArizona Impact Newsletter



Featured stories and events to connect you with UArizona's exciting research and discovery, meaningful innovation, entrepreneurial spirit, and societal impact.

SUBSCRIBE



Cameron Neylon · 1st

Professor of Research Communications at Curtin University

Perth, Western Australia, Australia · [Contact info](#)

500+ connections

Panton Principles

Principles for Open Data in Science



Curtin University



Australian National University





URMA is for research communicators

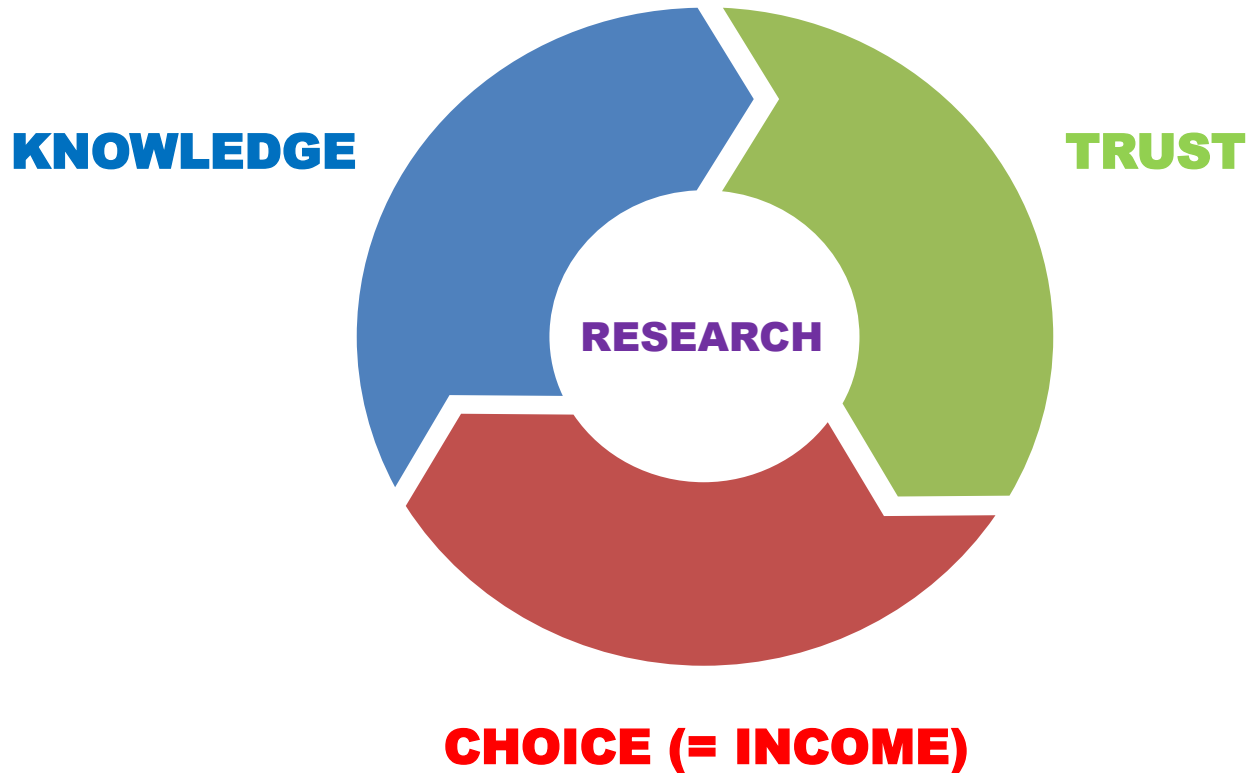
We promote excellence and professionalism among those who write, edit, design, and publish magazines, e-newsletters, social media, and multimedia about research at a university, nonprofit research center, agency or institute.

[Join Today!](#)

Membership = £36 !

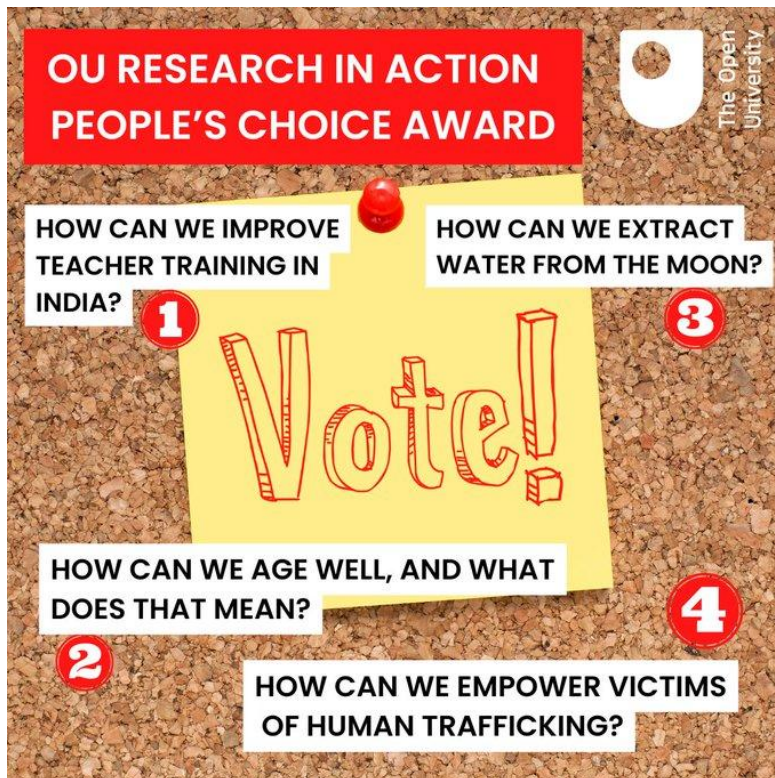


THE UNIVERSITY REPUTATION ECOSYSTEM



LET'S START WITH.....





Double award win for UCL's Disruptive Thinking brand campaign

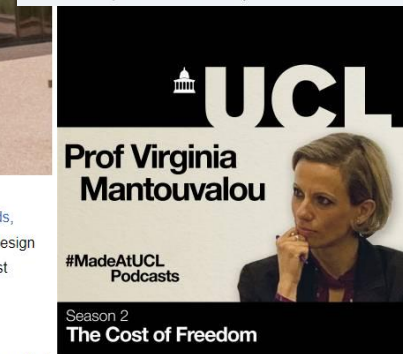
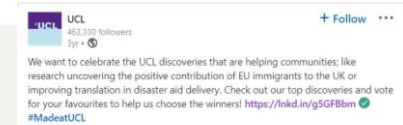
21 May 2020

UCL's "Disruptive Thinking Since 1826" campaign has won two pan-industry marketing awards and has been shortlisted for another.



The campaign has won Gold in [The Drum Design Awards](#), and Silver in the [Fresh Awards](#), being recognised alongside some of the most creative and inspiring work produced by design and advertising agencies across the world. As well as this, it has been shortlisted for best Education Campaign in the 2020 [CIPR Excellence Awards](#).

In September 2019, UCL launched the [#MadeAtUCL](#) public awareness campaign to demonstrate the real-life impact of UCL's research and promote our achievements in a way that wider audiences could relate to. [#MadeAtUCL](#) showcased the top 100 Disruptive Discoveries from across all UCL faculties, and allowed the UCL community and general public to vote for their favourite story in the categories of Community, Culture, Health, Justice & Equality, Environment and Technology. Close to 20,000 votes were received across all the stories in just three months, and it is estimated that the associated social media campaign reached around 2 million people on social media.



UNIVERSITY
of GUELPH

UofG
THROUGH THE LENS



Research in Focus Photo Contest

2024
research
in focus
PHOTO CONTEST

Thanks to everyone who entered our 6th annual Research in Focus photo contest!

Judging is complete and the winning photos are posted below. To learn more about the research projects, click on the images for more detailed descriptions.

[View All 2024 Entries](#)

First Place

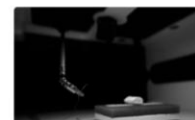


[Tobacco in motion, frozen in time – Natalia Ruiz Cuartas](#)

The tobacco farmer works alongside his oxen to transport the tobacco leaves, which are ready to begin the stringing and drying process. Tobacco is a key part of Cuban culture, identity, and economy.

Research: The photo was taken at the Benigno Acosta Santana Farm in Pinar del Rio, Cuba, during the fieldwork of my research about Gender Equity in Agricultural Innovation in Cuba. During the tobacco harvest season, women are mainly in charge of weaving the leaves, while men are primarily responsible for what they call "hard work."

Second Place



Third Place



Pictured is Lorraine Vandermyden standing outside a crop field where we conduct insect sampling using sweepnets. This project investigates insect communities in different habitats in agroecosystems and measures ecosystem services.



UNIVERSITY OF
GEORGIA
Office of Research

UGA RESEARCH TATTOO CONTEST

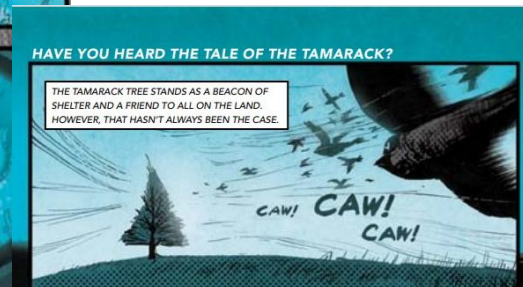
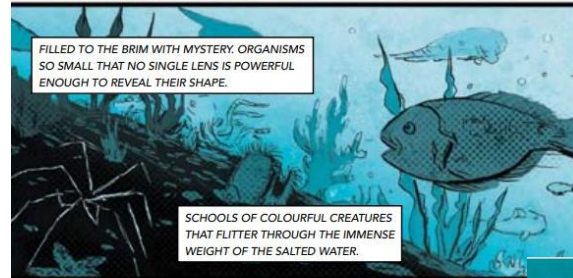
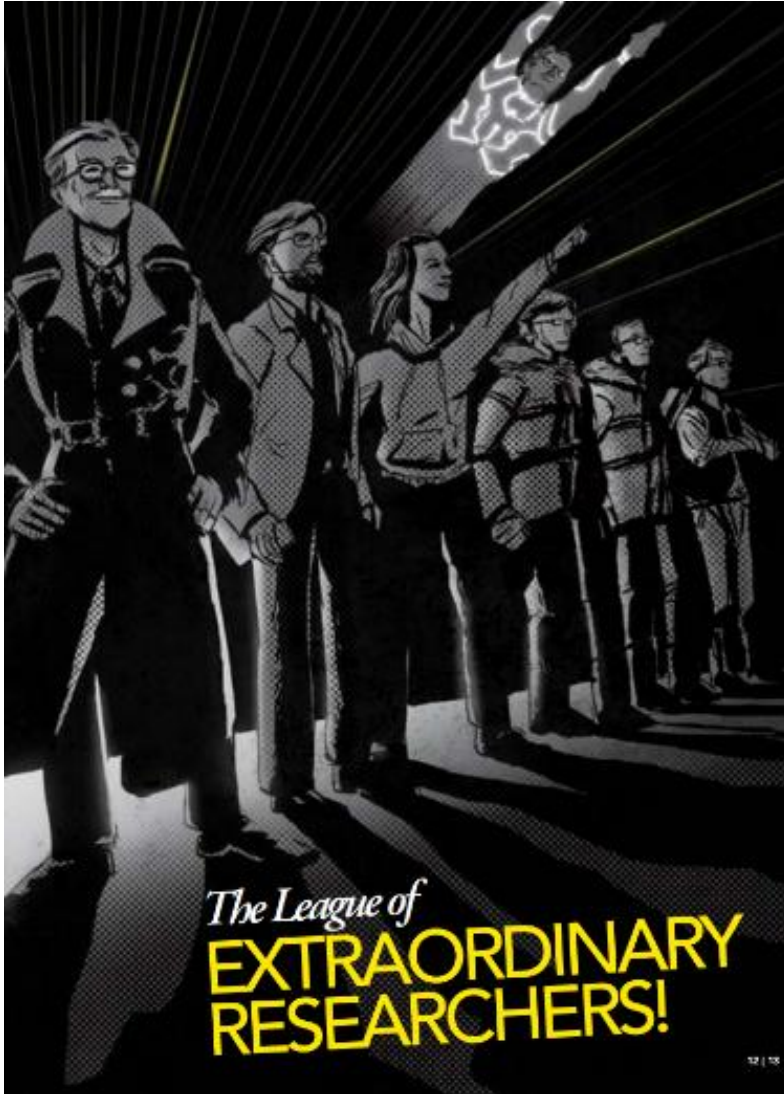
Do you wear your (scholarly) passion on your sleeve? We're looking for a few good tattoos. If you have body art that relates to your research or creative activity, we invite you to enter the UGA Research Tattoo Contest.

Show off your ink. Win prizes.

ENTRY DEADLINE: FRIDAY, APRIL 18, 2025



COMMUNICATIONS
MANAGEMENT
THE EDUCATION SPECIALISTS





THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

HIPPOCAMPUS

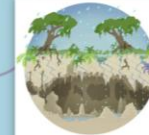
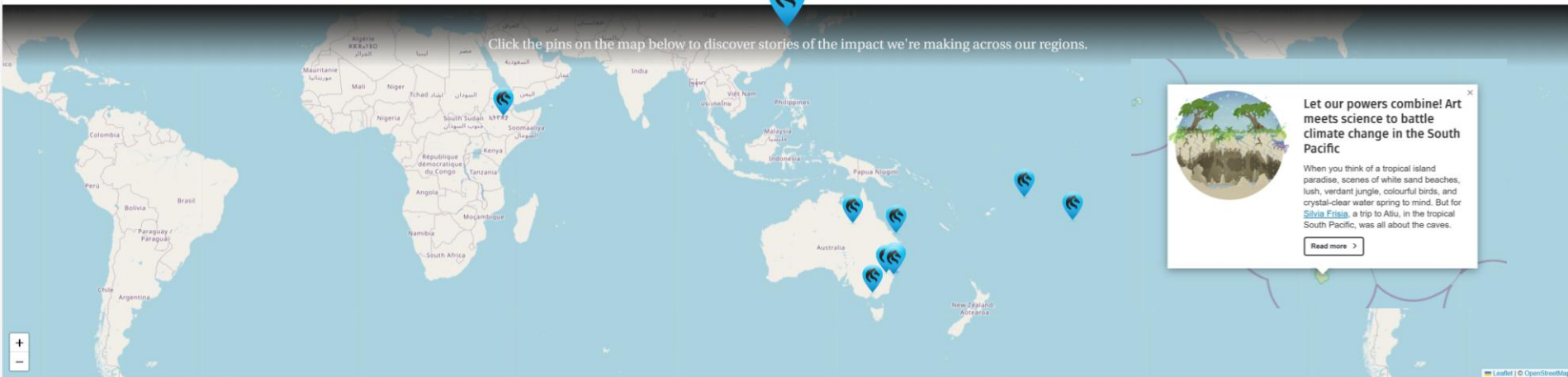
HIPPOCAMPUS



**HERE
HERE**



Click the pins on the map below to discover stories of the impact we're making across our regions.



Let our powers combine! Art meets science to battle climate change in the South Pacific

When you think of a tropical island paradise, scenes of white sand beaches, lush, verdant jungle, colourful birds, and crystal-clear water spring to mind. But for [Silvia Frisio](#), a trip to Atiu, in the tropical South Pacific, was all about the caves.

[Read more >](#)

Business, Law and Politics • 4 min read

From bean-counters to cyber-sleuths: how accountants are a frontline defence against online



[Request Podcasts](#) [Export Contact List](#)

30 Best Research Podcasts UK Edition 2025

Jun 20, 2025 - Contents

Media Cont

 Get access to
in 1500 niches

 Get targeted
your niche a

on good authority

Podcast

GCU Common Good Podcast

Glasgow Caledonian University



Explore Audio University of Florida

★ 0.0 (0) - SCIENCE

Explore Audio brings you narrated stories from the University of Florida's Explore research magazine. In each episode, you'll find amazing discoveries and the determined and inspiring people behind them. [MORE](#)

[▶ Latest Episode](#)

Episodes >



24/09/2024

Space Exploration Hub

UF's new Astraeus Space Institute promotes research collaboration Featured Researcher: Rob Ferl See [omnystudio.com/listener](#) for privacy information.



24/09/2024

Percy and LISA

UF space researchers play pivotal roles in major missions Featured Researchers (alphabetical order by last name): John Conklin, Amy Williams See [omnystudio.com/listener](#) for privacy information.



24/09/2024

9 Questions with Jason Dittmann

UF astronomer shares his research on exoplanets Featured Researcher: Jason Dittmann See [omnystudio.com/listener](#) for privacy information.



24/09/2024

Mission Control

UF leads the way at the Space Life Sciences Lab Featured Researchers (alphabetical order by last name): Nils Aversch, Jamie Foster, Andrew Schuerger See [omnystudio.com/listener](#) for privacy information.



Reframe Podcast Series

Your smartwatch isn't good for your health

26 MARCH 2025

Get 100k podcasts with email contacts for everyone

hidden barriers many face when

[Apple](#) [Google](#) [Spotify](#)

Smartwatches and fitness trackers promise better health, but could they be doing more harm than good?

 cover
h k more


PhDivas PhDivas

★ 5.0 (51) - SOCIETY & CULTURE

Podcast about academia, culture, and social justice across STEM/humanities divide. Dr. Liz Wayne and Dr. Christine two women of color Ivy League PhDs navigating higher e

[▶ Latest Episode](#)

Episodes >



09/26/2022

S7E1 | You Are Not Alone: Race + Mental Health w Dr Samara Linton & Rianna Walcott

Good luck with the start of another academic year: you are not alone. Mental health is often falsely presented as irrelevant to people of colour. Dr. Samara Linton and Dr. Rianna Walcott's brilliant 'The Colour of Madness' explores mental health for and by people of colour across art, essays, poetry, and stories. Together with PhDiva Xine they discuss bridging the STEM/humanities divide through their collaboration and the uses of the book to communities, teaching, and health care professionals. 'The Colour of Madness...



07/11/2022

S6E9 | Pandemic Pedagogy & Sailor Moon Solidarity w Dr. Cassie Osei

Adversity and the power of friendship! In the second half of the interview, PhDiva Xine talks with historian Cassie Osei about pedagogy during the pandemic and life lessons from Sailor Moon. Do you watch anime? How does it affect how you engage in the world? For show notes see our blogpost: <https://phdivaspodcast.wordpress.com/2022/07/11/s6e9-pandemic-pedagogy-sailor-moon-solidarity-w-dr-cassie-osei/> Support PhDivas on Patreon: www.patreon.com/phdivaspodcast Dr. Cassie Osei (she/hers) is a historian of Latin...



05/27/2022

S6E8 | Afro-Brazilian Women's History & Low Femme Theory with Dr. Cassie Osei

Wherever they are, Black women have always theorized about race and gender, says Dr. Cassie Osei. In the first of two eps, PhDiva Xine interviews Cassie Osei, historian of Afro-Brazilian women's history, longtime PhDivas Podcast listener, and newly minted PhDiva (!). Cassie talks about archival methodologies, Black feminist theorizing beyond the US, and about the personal importance of what she playfully refers to as 'low femme theory.' For show notes see our blog post...



03/22/2022

S6E7 | PhDivas Discuss DISAFFECTED: Solidarities Outside the Master's House

Let's talk about feelings, unfeelings, boundaries, and emotional labour! How do we build solidarities beyond what Black feminist Audre Lorde calls 'the master's house'? In part 2, PhDiva Liz chats to Xine about her book Disaffected and how her own positionality as a Chinese diasporic queer person led to how she navigates a feminist approach to feeling and unfeeling that is mindful of comparative racialization. They talk about 19th-century anti-Asian and anti-Black racisms alongside their own experiences of these racisms...



02/19/2022

S6E6 | WOC Then, WOC Now Pt 1: Writing Books & Historical Black Women in STEM

So much and yet so little has changed for women of colour since the 19th century... PhDivas Liz and Xine discuss Xine's first book DISAFFECTED. Xine shares the challenges of writing a monograph (a fancy academic term for research book). Chapter 4 is kind of an homage to Liz: it discusses Black feminist approaches to STEM in the nineteenth century by analyzing a novel by a major Black woman writer alongside the writings of the first two Black American women to receive medical degrees. Liz and Xine delve into the e...



12/30/2021

S6E5 | WOC Scholars in Community: PhDiva Xine's Book Launch!

If the master's tools can never dismantle the master's house, what can we build instead? Since emotional labour is racialized and gendered, what if minoritized people say 'no'? Listen to several brilliant WOC scholars discuss PhDiva Xine's new book DISAFFECTED: each of them was given a chapter of the book to respond to in order to give the audience a sense of the overall argument as well as a chance for each scholar to discuss their own research. 170+ people attended from around the world! 0:00 to 6:15 Xine's overview ...



<https://showyourstripes.info/s/globe>

“These graphics are free to use for any purpose (with appropriate credits), but if you would like to make a charitable donation to support climate science and education at the University of Reading you can do that here. Donations will contribute towards our current priority project, funding a PhD studentship investigating historic weather records collected in the UK from the 17th to 19th centuries. This three-year research project will help test and improve the robustness of some of the world’s longest running climate records, with the datasets then freely shared with other climate scientists around the globe.”



**MORE TO COME
LATER.....**

 **COMMUNICATIONS
MANAGEMENT**
THE EDUCATION SPECIALISTS



THE FUTURE IS **YOU**

We have one simple promise – to make a positive impact. Through our ground-breaking research, teaching excellence and commitment to sustainable living, we are changing lives for the better.

We could change yours too.

[Book your Open Day](#)[Book a Campus Tour](#)[Learn more about the turtle](#)

2nd

for employability

Uni Compare Student Review Rankings 2026

Top 10

UK university

Uni Compare Student Review Rankings 2026

2nd

for course quality

Uni Compare Student Review Rankings 2026

No. 1

for Accommodation

Global Student Living Awards 2024, 2023, 2022

96%

of graduates in work/further study

Latest HESA Graduate Outcomes survey

Top 25

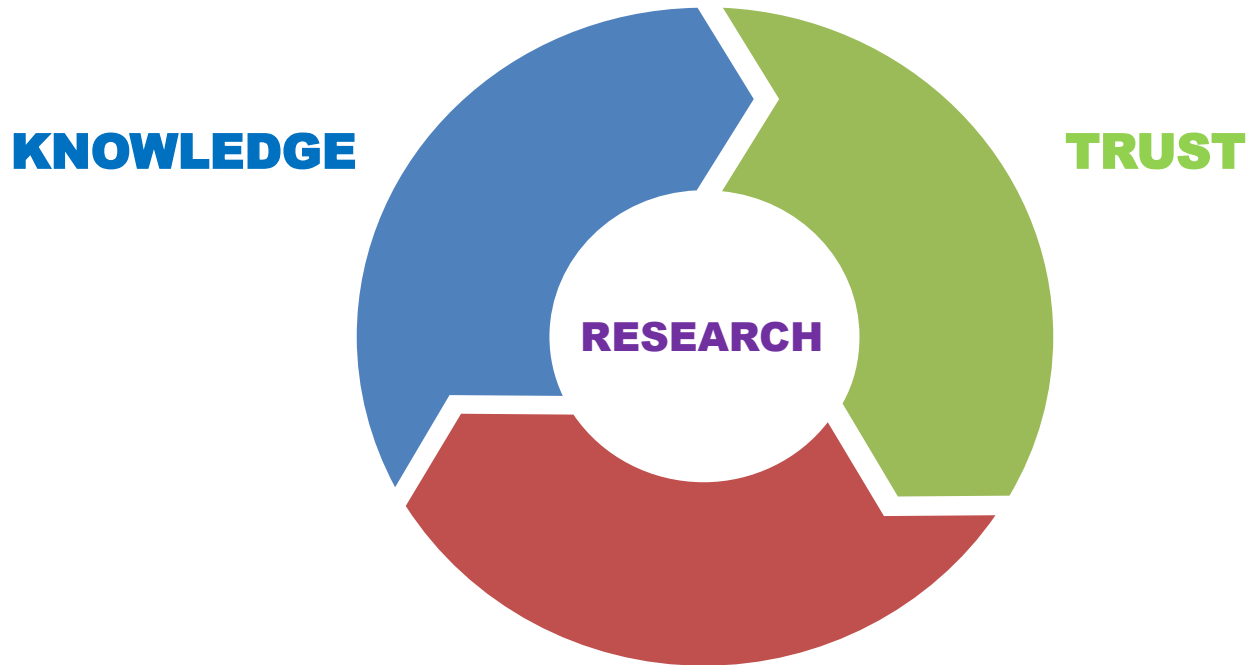
in the UK for overall student satisfaction

Complete University Guide 2025

WHY THE TURTLE?



THE UNIVERSITY REPUTATION ECOSYSTEM – AS APPLIED TO FUTURE STUDENTS



CHOICE (= INCOME)

PROMOTING RESEARCH TO FUTURE STUDENTS

DRAWN FROM: PRELIMINARY FINDINGS AND EXPERIENCES

1. STRATEGIC POSITIONING (EMOTIONAL APPEAL):

- Cause-related messaging and campaigns – demonstrate values and inspire.
- Syncing research content with brand/mission positioning.

2. THE STUDENT EXPERIENCE (PERSONAL BENEFIT):

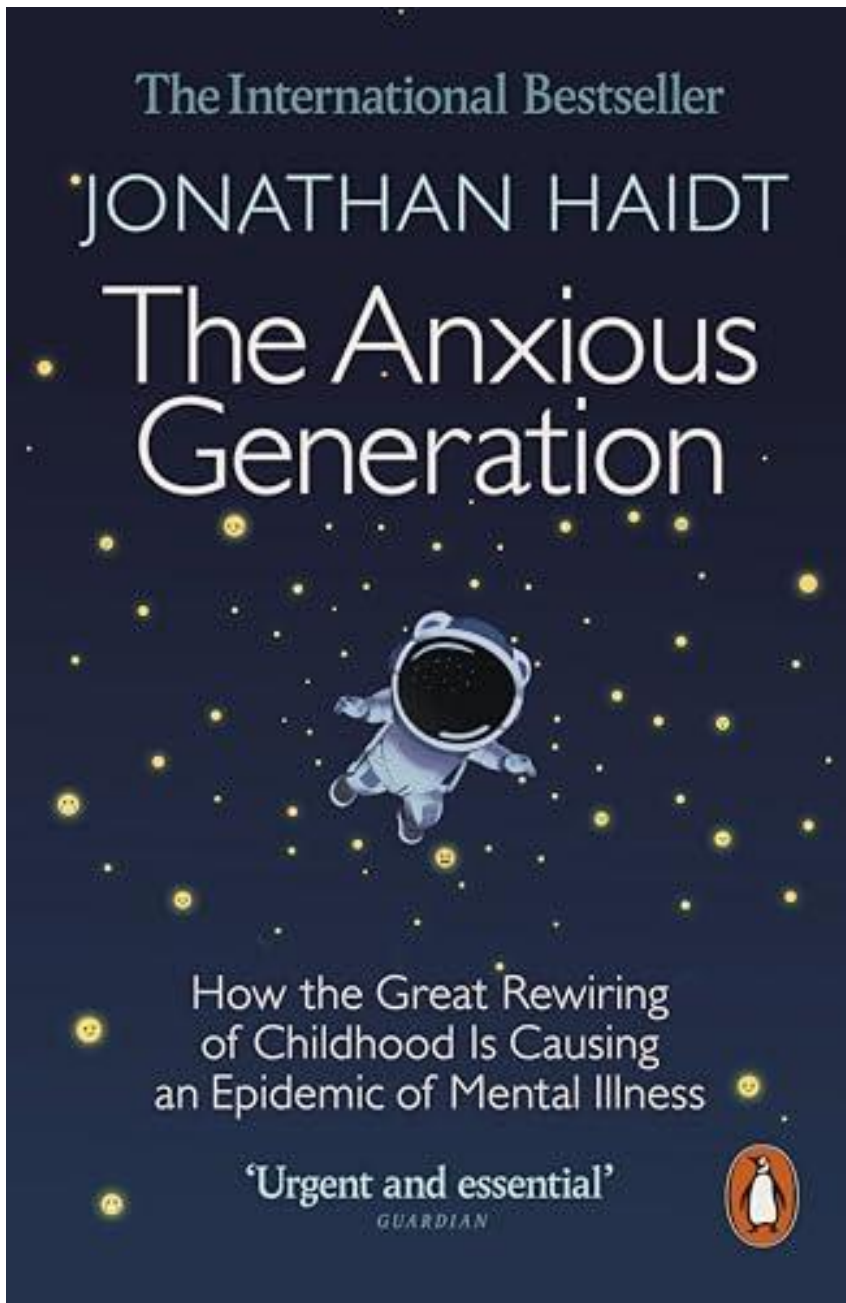
- You'll be taught by experts who bring their latest research into 'the classroom'.
- You'll develop your own research skills – curiosity, discovery, data, analysis.

3. ENGAGEMENT (RESEARCH AS A METHOD FOR FIRST ENCOUNTERS):

- Outreach with schools, youth spaces, and communities.
- Open day content.

4. TARGETING THE INFLUENCERS ON CHOICE WITH RELEVANT RESEARCH:

- Channelling relevant research to teaching profession and industry bodies



“It’s obvious that students in **discover mode** will profit and grow rapidly from the bountiful intellectual and social opportunities of a university. Students who spend most of their time in **defend mode** will learn less and grow less.”



THE WORLD CAN'T WAIT. AND NEITHER CAN WE.

Vice-Chancellor and President Professor Nick Jennings says universities have to showcase the breadth and depth of their impact on individuals, regions and countries if they're to be valued as they should.

The UK's universities are one of this country's greatest assets. We're educators, employers, innovators and pioneers. We shape culture and society. We're a global sector that's truly worth celebrating.

But increasingly of late, universities have been under fire. Changes to government policies, real-term cuts to funding and an ongoing cost-of-living crisis have seen the media and politicians questioning almost everything we do, from the value of our degrees to the significance of our research.

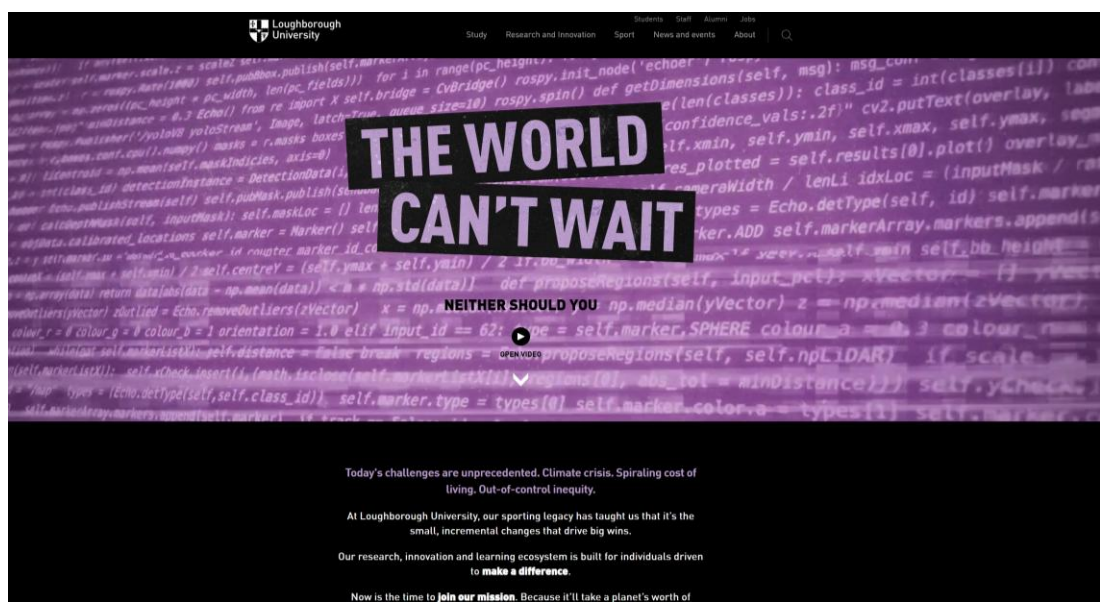
No other multi-billion-pound sector is treated with such disdain.

Major contributors to society

Step away from the current narrative though and it's hard to ignore the fact that universities make a hugely positive difference to so many aspects of society.

We provide students with the knowledge and skills to succeed in global workplaces. A report by Universities UK (UUK), the collective voice for the country's higher education institutions, estimates that by 2035 more than 11 million extra graduates will be needed to fill jobs in the UK alone.

We offer students opportunities to enrich their lives, intellectually, socially and financially. Government data shows that, on average, graduates earn £130,000 more over their working lives than those who don't go to university, and they're more likely to play an active part in society than those without a degree.



Loughborough University

Study Research and Innovation Sport News and events About

THE WORLD CAN'T WAIT

Today's challenges are unprecedented. Climate crisis. Spiraling cost of living. Out-of-control inequality.

At Loughborough University, our sporting legacy has taught us that it's the small, incremental changes that drive big wins.

Our research, innovation and learning ecosystem is built for individuals driven to **make a difference**.

Now is the time to **join our mission**. Because it'll take a planet's worth of



MONASH University

[Home](#)

[Saving Our Habitat](#)

[Building Healthy Communities](#)

[Creating Opportunities](#)

[Building Trust](#)

IS THIS THE ENDANGERED GENERATION?

It's time for us to act. It's time to change it. Because if we don't do something now, there's no telling what our future generations will face.

JOIN US TO CHANGE IT

▶ PLAY VIDEO

HOW WE CHANGE IT

SAVING OUR HABITAT

Explore how Monash is providing industry leading research into the environment and what we're doing to improve planetary health.

BUILDING HEALTHY COMMUNITIES

Discover how we're pioneering developments in health that will benefit current and future generations.

CREATING OPPORTUNITIES

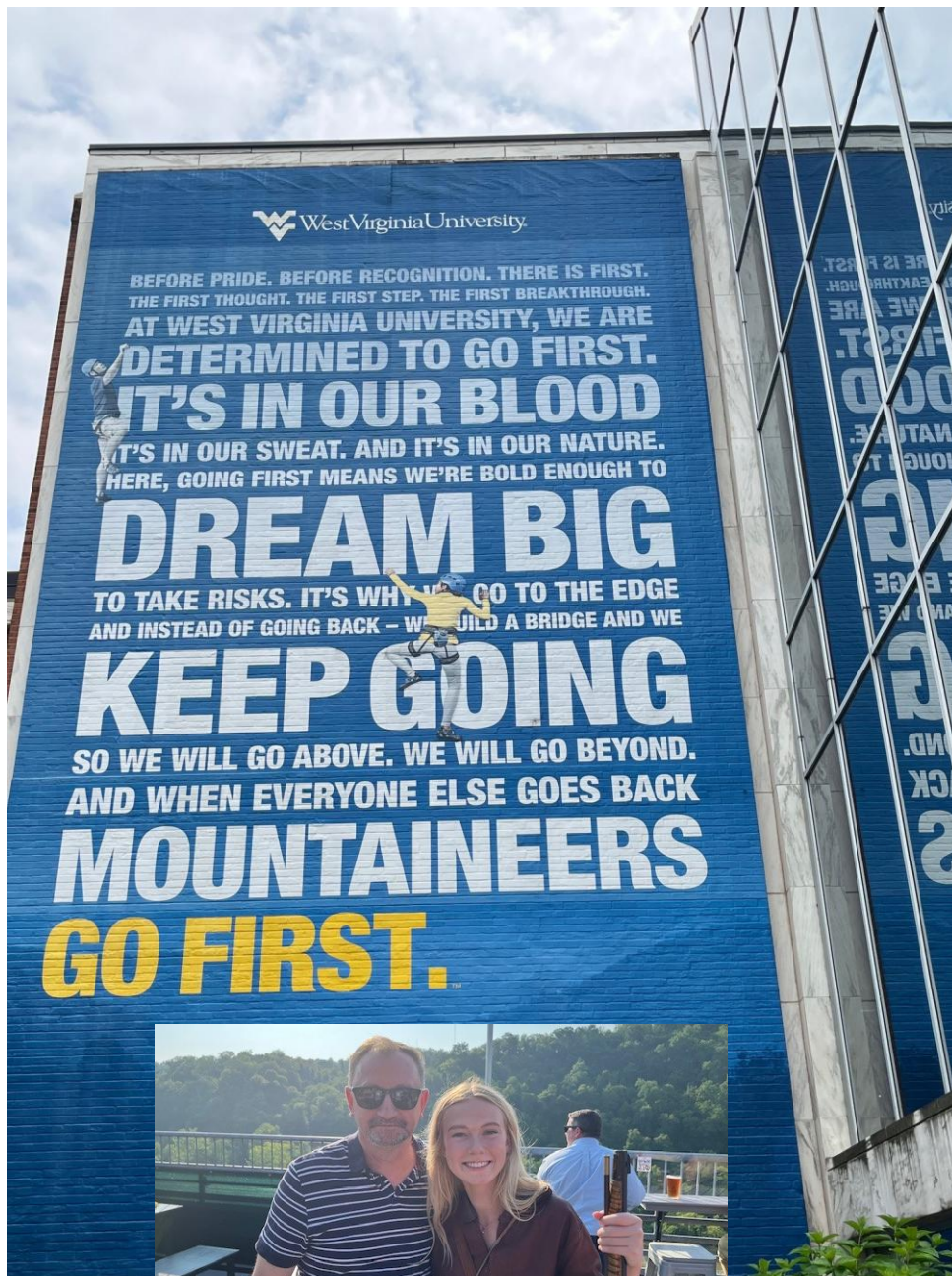
Take a look at how our people are tackling inequality and opportunity, taking innovative steps in building a world that's more unified.

BUILDING T

Profit and ethical behavior hand in hand. Discover why trust and those impacted by it are important.

**IMPOSSIBLE
UNTIL IT'S DONE**

US
UNIVERSITY
OF SUSSEX



/ OUTDOOR REC

Displaying 1 expert



Danny Twilley

Assistant Vice President, Economic, Community and Asset Development, Brad and Alys Smith Outdoor Economic Development Collaborative

Office:
Email: danny.twilley@mail.wvu.edu

Expertise
[Talent Attraction](#), [Ascend WV](#), [Outdoor Community Development](#), [Outdoor Rec](#), [Business and Workforce Development](#)

[full profile](#)

/ APPALACHIAN STUDIES

Displaying 1 expert



Nicholas Stump

Head of Reference and Research Services, George R. Farmer, Jr., Law Library, College of Law

Office: +1 (304) 293-6830
Email: nicholas.stump@mail.wvu.edu

Expertise
[Law and the Environment](#), [Social Movements and the Law](#), [Social Movements and Appalachia](#), [Appalachian Studies](#), [Environmental Justice](#), [Human Rights and the Environment](#)

[full profile](#)

/ PHYSICAL ACTIVITY PROMOTION

Displaying 1 expert



Sam Zizzi

Dr. Pat Fehl Endowed Professor, Sport and Exercise Psychology, College of Applied Human Sciences

Media Inquiries should be directed to Adam Zundell, Marketing and Communications Director, College of Applied Human Sciences

Office: +1 (304) 293-5299
Mobile:
Email: Adam.Zundell@mail.wvu.edu

Expertise
[Obesity Prevention](#), [Sport and Exercise Psychology](#), [The Psychology of Injury](#), [Attitudes Toward Sport Psychology](#), [Physical Activity Promotion](#), [Mindfulness](#)

[full profile](#)

/ FOREST PATHOLOGY

Displaying 1 expert



Matt Kasson

Associate Professor, Forest Pathology and Mycology, Davis College of Agriculture and Natural Resources
Director, International Culture Collection of Vesicular Arbuscular Mycorrhizal Fungi

Office: +1 (304) 293-9837
Email: mjkasson@mail.wvu.edu

Expertise
[Mycology](#), [Forest Pathology](#), [Forest Pest Management](#)

[full profile](#)

UF | Artificial Intelligence UNIVERSITY of FLORIDA

UNIVERSITY of FLORIDA



BUILDING AN AI UNIVERSITY

The University of Florida is one of the nation's first universities to offer its students AI Across the Curriculum with courses in artificial intelligence available in all 16 colleges. Our nation's need for a skilled AI workforce grows daily and can only be met by reaching new learners as well as upskilling existing workers. At UF, AI is for everyone with no need for backgrounds in engineering or data science. The university currently offers 230 AI and data science courses at the undergraduate, graduate and professional levels with many more in the developmental stages. These courses are in every college, from the arts to agriculture.

UF has been building a comprehensive, inclusive model to reach new K-20 students as well as upskilling the current workforce via a [micro-credential](#) in artificial intelligence. As the state's premier Land-Grant institution, UF already had hundreds of existing faculty who were using AI in their teaching and research. This was expanded by hiring 100 new AI-focused faculty in 2020. Comprehensive AI research is supported with HiPerGator, one of the fastest supercomputers in higher education, gifted to UF by the NVIDIA Corp. This resource is available to all faculty and students, as well as other universities and industries. In 2022, the university also established centralized leadership of AI academic efforts via the establishment of the [Artificial Intelligence Academic Initiative \(AI2\) Center](#).

COMMUNICATION AND EXPERTISE

AI Speakers Bureau, Experts, and Policy Briefs

UF faculty who often speak publicly about AI and its impacts are available for speaking opportunities.

[Inquire About a Speaker](#)

AI RESEARCH

UF's strong and diverse research portfolio is incorporating and applying AI and data science across disciplines. This infusion of technology will supercharge the university's successful research and development portfolio. In 2020, the university stimulated AI research activity by awarding 20 faculty teams in varied disciplines \$50,000 each to pursue AI-related projects. With [HiPerGator](#) at their disposal, UF faculty can analyze vast amounts of data and predict solutions to health, agriculture, engineering and educational challenges. To support student research, the AI2 Center is funding stipends for student AI Scholars to support their research with an AI faculty mentor.



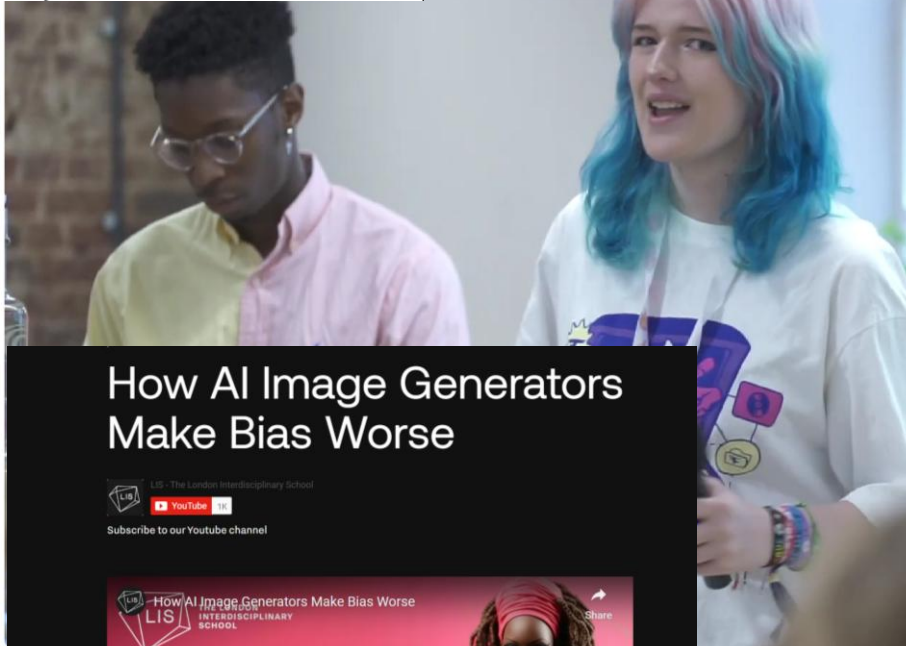
UF Provost Joe Glover on Building a Leading AI University - Ep. 186

The AI Podcast

4 months ago

Technology





How AI Image Generators Make Bias Worse



Subscribe to our Youtube channel



Buzzfeed recently published a now deleted article on what AI thinks Barbies would look like from different countries around the world. The results contained extreme forms of representational bias - including colourist and racist depictions, which is something that AI image generators are often prone to doing. With AI image generators like MidJourney, Stable Diffusion, and Dall-E gaining huge popularity, it's important that we are vigilant about the forms of bias that these technologies can fuel. * * * This video was inspired by an LIS undergraduate student's end of first year project, ['Beyond the Hype: Understanding Bias in AI and its Far-Reaching Consequences'](#) by Ana Howard.

[Project Quest | How Ai Image Generators Make Bias Worse](#)

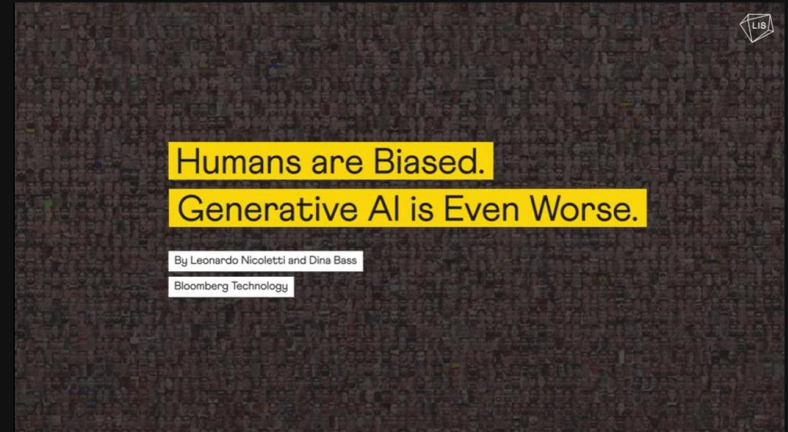
How AI Image Generators Make Bias Worse



LIS - The London Interdisciplinary School



Subscribe to our Youtube channel



Buzzfeed recently published a now deleted article on what AI thinks Barbies would look like from different countries around the world. The results contained extreme forms of representational bias - including colourist and racist depictions, which is something that AI image generators are often prone to doing. With AI image generators like MidJourney, Stable Diffusion, and Dall-E gaining huge popularity, it's important that we are vigilant about the forms of bias that these technologies can fuel. * * * This video was inspired by an LIS undergraduate student's end of first year project, ['Beyond the Hype: Understanding Bias in AI and its Far-Reaching Consequences'](#) by Ana Howard.

In the third term of each year, students select a complex problem they personally feel passionate about. They then apply the skills they've learnt in interdisciplinary thinking, including qualitative and quantitative research methods, in order to tackle their topic and unearth original insights. At LIS - The London Interdisciplinary School, we believe that solutions to the world's most complex problems won't come from a single specialism. We need to bring together knowledge and expertise from across the arts, sciences and humanities.



Learn from the experts

Whether you're studying for an undergraduate or postgraduate degree, you'll be taught by leading academics in an environment of innovation and discovery.

Taught by experts

Our academic staff are experts in their fields who want to share their knowledge and skills with you. They'll encourage and challenge you, helping you to reach your full potential.

Whichever course you choose, your studies are informed by the most recent discoveries and thinking.

Our teaching staff are leading experts in their subject areas with connections in industry, professional bodies, and non-governmental organisations (NGOs) around the world. They use their industry links, research, and discoveries to make sure you're taught the most up-to-date topics.

As a Bath student, you'll be immersed in this culture of innovation and enterprise. You'll become part of our community and be taught by experts carrying out vital work.

We'll also assign you an Academic Advisor. This is a member of the teaching staff in your department who knows your subject and the challenges you could face. They can guide you in your academic progress and support your personal and professional development throughout your time at Bath.

UNIVERSITY OF
BIRMINGHAM

BIRMINGHAM HEROES

RESEARCH THAT MATTERS

The highly successful Birmingham Heroes campaign is being re-launched in November with a refreshed visual identity to showcase Birmingham's research impact and credibility. The campaign, as part of the University's research communications strategy will:

- Communicate the University's commitment to world-leading and original research by highlighting a number of strategically important research areas
- Demonstrate how the research that takes place at Birmingham impacts on the lives of people regionally, nationally and globally (with REF 2020 in sight)
- Enhance the public profile and reputation of the University
- Support the launch of the Strategic Framework with great research content
- Build the reputation and awareness of the University in the autumn period and into 2016

Research themes

The first round of the campaign will launch on 2 November and focus on the following areas:

Energy Crisis

Supporting the *Birmingham Policy Commission: Doing Cold Smarter*, which launched in mid-October in Westminster. Specific advertising has been booked to promote this work to key stakeholders. The Birmingham Energy Institute at the University of Birmingham is championing UK investment in clean cold technologies amid concern that global demand for cooling and refrigeration will overtake heating by 2060. Modern luxuries such as refrigeration, data servers, modern healthcare, transport of fresh food, and air conditioning are now recognised as using more energy at greater environmental cost.

The University is leading on Thermal Energy in the Energy Research Accelerator (ERA), which is a consortium of Midlands Universities that has announced £60m of government funding.

POST REF HEROES WILL PROVIDE A DISTINCTIVE AND CONSISTENT VOICE FROM BIRMINGHAM THAT HIGHLIGHTS OUR LEADING ACADEMIC FIGURES AND ACADEMIC STRENGTHS.

Professor Martin Freer – Director of Birmingham Energy Institute, Head of Physics and Astronomy, Director of the Birmingham Centre of Nuclear Education and Research

Professor Toby Peters – Visiting Professor in Power and Cold Economy at the University of Birmingham: Long-time advocate of UK-based innovation in energy systems and founder of Highview Power and the Dearman Engine Company

Professor Yulong Ding – Director of the Birmingham Centre for Energy Storage

Mental Illness

Showcasing the work of Project PERFECT (Pragmatic and Epistemic Role of Factually Erroneous Cognitions and Thoughts). An issue of public interest, Project PERFECT explores how we can break down the stigma commonly associated with mental illness by promoting a better understanding of how the mind works. The team are showing that the so-called 'marks of madness' are not different in kind from everyday irrational thought. There is no sharp divide between the mentally distressed and the mentally well. This theme also demonstrates interdisciplinary work.

Professor Lisa Bortolotti – Professor of Philosophy

Dr Ema Sullivan-Bissett – Research Fellow

Dr Michael Larkin – Senior Research Tutor for Clinical Psychology and Senior Lecturer in Psychology

Silent Killers

Fatty liver disease is a major, often unrecognised, global health challenge, which is ultimately preventable. Type 2 diabetes affects up to 10% of the population and doubles the risk of cardiovascular disease-related mortality. The research undertaken at Birmingham is identifying how healthy diets, weight management and optimal use of physical exercise can dramatically reduce the likelihood of developing these non-symptomatic silent killers. This theme supports the drive to increase the University's reputation in the Life Sciences and has also been designed to coincide with a visit by the Life Sciences Minister to campus in November.

Professor Philip Newsome – Professor of Experimental Hepatology and Clinical Director of the Birmingham University Stem Cell Centre

Dr Patricia Lalor – Senior Lecturer in The Centre for Liver Research

Dr Thomas Solomon – EU Marie Curie Research Fellow

Character Matters

This theme focuses on character education and showcases the work of the Jubilee Centre for Character and Virtues, who is leading on policy and practice in this area and through its extensive range of projects contributes to a renewal of character virtues in both individuals and societies. This theme is also timely, as it reinforces our commitment to secondary education through the opening of the University of Birmingham School, which has a bespoke programme of character education developed by the Jubilee Centre for Character and Virtues.

Professor James Arthur – Director of the Jubilee Centre for Character and Virtues, Deputy Pro-Vice-Chancellor for Staffing, Former Head of School of Education, and Governor of University of Birmingham School

Professor Kristján Kristjánsson – Professor of Character Education and Virtue Ethics and Deputy Director of the Jubilee Centre for Character and Virtues

Dr Sandra Cooke – Director of Partnerships in the Jubilee Centre for Character and Virtues

Dr Tom Harrison – Director of Development in the Jubilee Centre for Character and Virtues

Medical Heroes

Launching on 9 November this theme demonstrates the value of the University to our region. This theme communicates how the University is providing significant numbers of high-calibre graduates in medical, biochemistry and related fields to meet the future needs of the life sciences sector.

Professor Kate Thomas – Vice Dean of Education and Programme Director MBChB

Dr Joe Alderman – Foundation Doctor Year 1 Founder of MILE, a West Midlands CPR voluntary group

Dr Rima Dhillon – teaches on the MBChB and her maternal health research directly impacts the ethnic communities around Birmingham

Dr Shayan Ahmed – Foundation Doctor Year 2. He was in our A&B scheme having first been inspired to do medicine at a University of Birmingham summer school ten years ago

Campaign execution

The campaign will use both digital advertising and print channels. Digital adverts will be targeted by demographics and web user behaviours. Print advertising will be located in high footfall locations, in key geographic areas including 150 escalator panels across 19 key commuter underground stations in London including Euston and Marylebone, at Swindon located to Polaris House home to key funding councils, the concourse of the newly regenerated New St Station, Birmingham International, and on 150 train interior panels across the regional Midlands network.

The campaign will direct enquirers to web pages where they can learn more about our Heroes, their research and why it matters.

The campaign will be underpinned with a social media campaign, which will begin to build awareness around our world leading research through #thismatters.

A second round of Heroes, showcasing different research areas, is being planned for March 2016.

Supporting Birmingham Heroes

For further information about the Birmingham Heroes campaign or to arrange promotional materials to share with your key stakeholders, please contact Claire Doggett, Head of Marketing or your College Marketing and Communications Manager who will be happy to advise and support you.

CHANNEL	TIMING	DETAILS
London Underground A3 escalator panels	2 November 4 weeks	150 panels (posted in sets of 3) located next to each other across the following stations: Canary Wharf, Waterloo, Westminster, London Bridge North Greenwich, Euston, Marylebone, Bank, Liverpool Street, St James, Victoria, Charing Cross, Kings Cross, St Pancras, Old Street, Embankment, Paddington, Chancery Lane, Moorgate
London Midland Trains A3 interior panels	2 November 4 weeks	165 interior panels across 2 train networks across the region ■ Lichfield to Redditch (via University) line ■ Worcester – Warwick Parkway ■ Wolverhampton – Birmingham International
Swindon landmark site	2 November 4 weeks	Visible to Polaris House home to the RCUK joint units, alongside BBSRC, EPSRC, ESRC, MRC, NERC and STFC
Grand Central	16 November 2 weeks	Digital 6 sheets around New Street concourse level
Birmingham International station	16 November 2 weeks	Large backlight in waiting area
University Station	2 November 4 weeks	Secured all platform advertising for 12 months
Digital advertising	2 November 4 weeks	■ Google search (Pay Per Click) using key words relating to the themes ■ Contextual advertising around relevant content on sites such as news sites ■ Targeting key audiences thought their behaviours or demographics (interest in teaching or the environment etc) ■ Linked in targeted advertising ■ Facebook/Twitter – targeting key stakeholders
Campus dressing	2 November	Banners (around campus) Hanging banners – Aston Webb Flags – lampposts Pull-up stands in Colleges
Internal engagement	November	Homepage Buzz Bite size Buzz (Next issue 5 Dec) All Staff email College local communications
Stakeholder engagement	November	Throughout November we will be launching Birmingham Perspectives, Birmingham Briefs and 60 sec videos around the key themes. These will be promoted to our relevant stakeholders and will be on www.birmingham.ac.uk/heroes
Social (Facebook and Twitter)	November	A creative content plan developed around the Heroes using #thismatters

WHY DOES THIS MATTER TO YOU?

www.birmingham.ac.uk/heroes

Why All Students Must Learn Academic Research (And How It Helps Them)

By [Kate Vitasek](#), Senior Contributor. © Kate Vitasek covers how to crack the code on collaboration

[Follow Author](#)

Published Jun 12, 2024, 07:00am EDT

[Share](#) [Save](#) [Comment](#) 0



A foundation in academic research is also important in strengthening the ability to discern between true and false information. In fact, a January 2024 study from Purdue University found that ChatGPT gave wrong answers **52% of the time**. While this will undoubtedly improve over time, the high proportion of incorrect information makes individual discernment and base knowledge in a student's chosen field all the more important.

GPT 'hallucinating' false information

by: [Sartaj Singh](#), [Alex Pearson](#)
Posted: Jan 10, 2024 / 05:44 PM EST
Updated: Jan 10, 2024 / 05:44 PM EST

SHARE [f](#) [x](#) [in](#) [e](#)

DAYTON, Ohio ([WDTN](#)) — A recent study from Purdue University found that ChatGPT, a popular AI app, presents wrong answers 52% of the time.

The findings follow researchers asking the program questions from a popular computer programmer website. Incorrect answers were delivered to more than half the questions.

[| Springboro snowplows 'Snowbi-Wan Kenobi' and more hit the roads >](#)

"ChatGPT may generate incorrect information anytime and anywhere," Tianyi Zhang, assistant professor at Purdue University.

Following the results of the study, Zhang advises the Artificial Intelligence tool should be used sparingly and not for complex tasks.

"I think it is not a bad idea to get inspiration from ChatGPT. But if you want to make an important decision, you need to be very careful," said Zhang.

Universities like Purdue are working to educate students and staff about the benefits and drawbacks of AI.

"It's just an incredibly transformative moment for us in education," said David Wright, University of Dayton director of academic technology and curriculum innovation.

Wright says he urges students as well as staff to double-check their work, as they have found that ChatGPT might scramble to find answers to information it does not have knowledge of. This leads to incorrect information and wrong answers being delivered to end-users.

"What we are clearly stressing is to not rely so heavily on ChatGPT, because we now know that it is able to have this process called 'hallucination' so it just sort of randomly generates information when it realizes it's running out things it does know, it'll start making up things," said Wright.

Wright says educators and students should utilize and learn from these types of tools, relying on them as a learning aid rather than a robot that does all the work.

Our Superpower

Undergraduate research turns curiosity and passion into skills and real-world solutions

Monday, April 7, 2025



Meet some of UNH's earliest-career researchers: undergraduates.

For these students, and hundreds like them, participating in research — working alongside faculty and graduate student mentors to influence real-world change and solve global challenges — deepens their college education. It's what UNH President Elizabeth Chilton calls the “superpower” of a public research institution like UNH.

And while conducting research boosts students' skills and knowledge in their chosen subject, its benefits transcend the lab or the library. “There is research going back decades that shows students who engage in undergrad research are more confident in their abilities and have higher levels of self-efficacy — in other words, they believe they can do what they need to in order to succeed,” says Jennifer Griffith, associate professor of organizational behavior. “Both of those characteristics are associated with positive career and life outcomes.”

Here, a handful of student researchers from across the university, all supported by funding from the [Hamel Center for Undergraduate Research](#), reflect on their experiences.

SERIES: [SPARK 2025](#)

✉ [SUBSCRIBE TO THE UNH TODAY NEWSLETTER](#)

📡 [SUBSCRIBE TO UNH TODAY RSS](#)

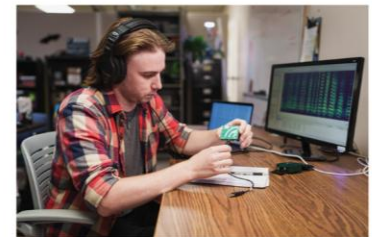
Dan Zogby '25

zoology

Hometown: Natick, Mass.

Mentor: Laura Kloepper, associate professor of biological sciences

Research: Analyzing the vocalizations of the common tern to provide insight into conservation efforts.



“I made two trips out to the tern colony on the Isles of Shoals, where I had the opportunity to ... gather observational data by watching the colony for two days. Getting paid to sit and look at birds all day is really all I want in life.”

Torin Scalora-Riley '25

environmental science

Hometown: Newington, Conn.

Mentor: Jessica Ernakovich, associate professor of natural resources and the environment

Research: Investigating microbial communities in three types of permafrost, which is a carbon sink and important to carbon cycling in the Arctic.



“Working in a walk-in freezer to subsample permafrost cores was really fun even though it's so cold in there! It's very rewarding to be able to ask a question that most people probably aren't thinking about and work your way to the answer. The Arctic is a special place that deserves our attention.”

GET READY FOR UNI WITH BAASIT SIDDIQUI



 **University of Derby** •
24 April 2024 •

Today we held the awards ceremony for the 'Get Ready for Uni with Baasit Siddiqui' podcast competition. 🏆

The nine students who were shortlisted joined us at the University where they explored the TV and radio facilities at our Markeaton Street site, took part in practical activities and had their podcast premiered. 🎙️ Following this, Baasit will be paying a special visit to shortlisted entrants to deliver a bespoke session for their school or college.

Congratulations ... [See more](#)





COLLEGE OF ARTS & SCIENCES

THE OHIO STATE UNIVERSITY®

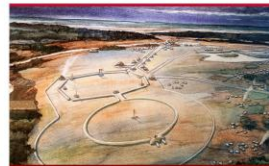
ASCENT 2024



ASCENT

Welcome to the College of Arts and Sciences at The Ohio State University, where curiosity is part of the curriculum. This issue's theme is **Creativity at Work** and reflects the amazing potential and value of an arts and sciences education.

IN THIS ISSUE





UARIZONA RESEARCH HIGHLIGHTS

Through cutting-edge research and innovation, the University of Arizona is committed to expanding human potential, exploring new horizons, and enriching life for all. With \$770M in annual research activity, we are leading the way in tackling the most pressing and complex challenges of our time, from climate change to planetary defense, and pandemic preparedness to healthy aging. As the state's designated land-grant university, making a real-world impact is not just our goal, but our moral obligation.

BY THE NUMBERS

No. 1

ASTRONOMY & ASTROPHYSICS
R&D Expenditures

No. 2

WATER RESOURCES
in the U.S. (No. 6 in the world)

No. 2

HIGH HISPANIC-ENROLLMENT
IN RESEARCH ACTIVITY
in U.S. institutions

No. 5

NASA-FUNDED ACTIVITY
among public universities

No. 5

PHYSICAL SCIENCES
R&D Expenditures

No. 6

COLLEGE OF PHARMACY
in the nation

No. 35

R&D EXPENDITURES
overall

*National Science Foundation
Higher Education Research and
Development Survey

ENTREPRENEURSHIP (FY21)



274 invention disclosures
+11 over previous year



124 licenses & options
for university inventions
+29 over previous year



100 patents issued
Ranked no. 28 among worldwide
universities granted U.S. utility patents



17 startups launched
125+ since 2012



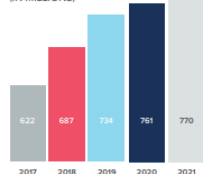
\$1.6B in economic output
from commercialization activities
between FY17-FY21

LAND GRANT MISSION

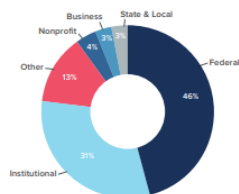
With offices in all 15 counties, UArizona Cooperative Extension is critical to our land grant mission of accessible education, research, and outreach. Cooperative Extension connects us to Arizonans statewide, serving as a network of knowledgeable faculty and staff and lifelong educational programs that are transformational in Arizona and beyond.

TOP 20 IN R&D EXPENDITURES (AMONG PUBLIC UNIVERSITIES)

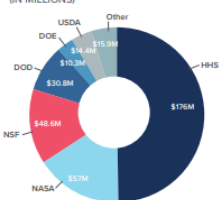
TOTAL RESEARCH EXPENDITURES
(IN MILLIONS)



HERD* FY21 FUNDING SOURCES



HERD* FY21 FEDERAL SOURCES
(IN MILLIONS)



KEY STRENGTHS

The Fourth Industrial Revolution is a time of augmented intelligence and the fusion of digital, physical, and biological worlds. As advancements like machine learning, AI, and 3D printing continue to change the essence of society, we are preparing the next generation of problem solvers to harness 4IR capabilities to tackle grand challenges.



ENVIRONMENT

- Mitigating the impacts of extreme heat and wildfire
- Pioneering a lifesaving, wastewater-based COVID-19 monitoring program
- Informing policymakers on environmental issues, including how to mine sustainably, conserve our water supply, and feed a global population of eight billion people



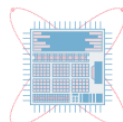
HEALTH

- Home to Aegis Consortium, a transdisciplinary, collaborative network of experts focused on pandemic preparedness
- Precision Aging Network funded by a \$60M NIH grant to study the aging brain
- Home to state of Arizona's only National Cancer Institute-designated Comprehensive Cancer Center
- Addressing the national healthcare workforce shortage through our medical colleges in Tucson and Phoenix



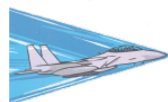
SPACE

- OSIRIS-REx, NASA's first mission to collect a sample from the surface of near-Earth asteroid Benu, was recently extended for 18 months to study another asteroid, Apophis
- Leading Aspera, a \$20M NASA mission to observe galaxy processes
- Led the development of critical imaging technology aboard NASA's James Webb Space Telescope
- Expanding infrastructure to support balloon-borne astronomy and the creation of nanosatellites with a new \$85M, 89,000-square-foot Applied Research Building
- Leading NEO Surveyor, a NASA mission expanding our nation's ability to find Earth-approaching asteroids and comets



QUANTUM

- Home to the Center for Quantum Networks (CQN), funded by a five-year, \$26M National Science Foundation grant
- Operating a quantum entanglement testbed on the UArizona campus, connecting laboratories in six buildings with a combination of optical fibers and free-space optics between rooftops
- Bringing together 150 researchers across 10 U.S. universities and 12 corporate partners to lay foundations of the quantum internet



NATIONAL SECURITY

- Advancing the ability to predict and prevent cyberattacks
- Advancing military operations in space
- Home to two hypersonic facilities and wind tunnels that permit testing from Mach 0 to Mach 5, \$10M in federal and state funding allowed for recent infrastructure upgrades
- Upgrading hypersonic research infrastructure with \$10M in federal and state funding awarded in early 2022

To learn more about our research or any of our graduate programs visit research.arizona.edu or grad.arizona.edu.

Show Your Stripes Day – 21 June 2025

Join our global call to 'Show Your Stripes' and share a powerful message about our changing climate



What is Show Your Stripes Day?



Why is it important?



BOOK NOW



Two weeks of FREE events to inspire and support Reading's journey to a healthier, happier, net-zero town.

SAT 8 – FRI 21 JUNE 2024



Three Acts and an Explainer Library

Sony Interactive's Climate Station leverages the key tech innovations from PS5 and PS VR2 to provide a deeply immersive experience for audiences as they discover their own climate story through three key acts, Weather Year, Observations, Projections. There's also an Explainer Library to explore.

- **Weather Year** - An immersive visual timelapse showing Earth's weather patterns, storms, and climate events throughout a full year.
- **Observations** - An interactive tool using IPCC data to explore over a century of climate change through a 3D globe with temperature indicators and global tracking of key metrics like CO₂, sea ice, and sea level rise.
- **Projections** - Explores five potential climate futures based on different emission scenarios using IPCC models, showing how temperature rises and impacts vary depending on the choices we make today.
- **Explainer Library** - Around 90 minutes of content that demystifies climate change concepts, voiced by Meteorologist & TV Weather Presenter Laura Tobin, a University of Reading Meteorology graduate.

Carleton University Research

5,843 Tweets



Follow

Carleton University Research

@cu_research

Showcasing and celebrating Carleton University research, its impact and people.

Ottawa, Canada research.carleton.ca Joined September 2010

1,020 Following 4,785 Followers

Welcome to the Centre for Initiatives in Education

An incubator and centre of excellence for access to post-secondary education.

High School Within A University

For OCDSB high school students who may not have considered university studies.

[More info](#)

Academic Prep Course: How to be a university student

Many incoming university students experience a skill gap - this course helps!

[More info](#)

Enriched Support Program (ESP)

Pathways to degree study, even if past grades and experiences are holding you back.

[More info](#)

Lifelong Learning Program (LLeap)

For the love of learning! Affordable non-credit learning on fascinating topics.

[More info](#)

Recent News



February 10, 2025

Enriched Support Program at Carleton - Lisa's Story

Lisa Onyemali recently spoke about why she came to Carleton through ESP and her experience in the program. Here's her...



November 28, 2024

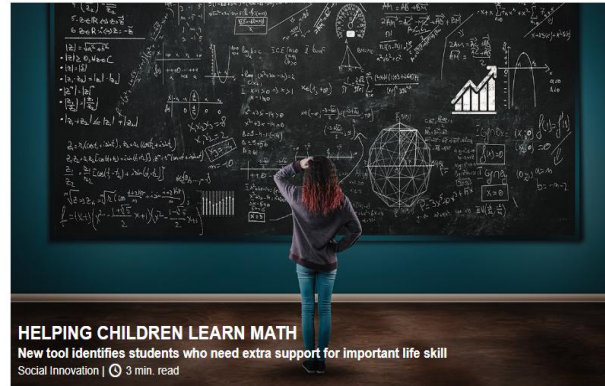
Help Ottawa High School Students Dream Big

Pilot funding for the High School Within A University continues for 2024-25 school year and is then no longer renewable...

Challenge What's Possible

At [Carleton University](#), we know that solving big problems demands that we challenge conventional modes of thinking and doing, and imagine new possibilities. We believe that by working together, we can design a better future.

We have grown to become one of the most resourceful and productive hubs of learning and growth, forging real partnerships to create research and education that tackles tough, complex challenges and improves lives. **Discover these stories of innovative, inclusive and sustainable impact.**



HELPING CHILDREN LEARN MATH

New tool identifies students who need extra support for important life skill

Social Innovation | 3 min. read



FIGHTING AN INVASION

Scientists and policy experts work to stop spread of invasive species

Sustainability | 3 min. read



IMMIGRATION, COMMUNITIES AND THE ECONOMY

Mapping out a solution to Canada's labour shortage

Social Innovation | 3 min. read

More Stories:

[All](#) [The New Economy](#) [Sustainability](#) [Health and Wellness](#) [Social Innovation](#) [Technology for Good](#)



KEEPING OLDER ADULTS SAFE ON THE ROAD

Driving Simulator Research Will Help People Remain Independent



THE NEW VIRTUAL CLASSROOM

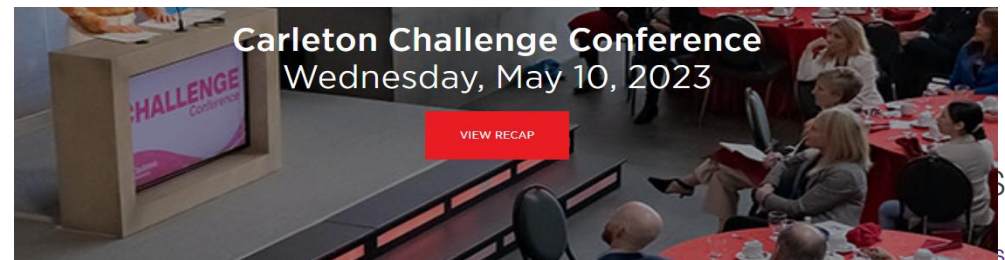
How holograms and immersive environments are transforming education

Technology for Good | 3 min. read



IMPROVING DOCTOR-PATIENT COMMUNICATIONS

Interactive technology makes it easier to share and discuss health data



Carleton Challenge Conference Wednesday, May 10, 2023

[VIEW RECAP](#)

1950

1960

1970

1980

1990

2000

2010

2020

Labels

The Alphas

Generation glass

Upagers

Multi-modals

Global Gen

Gen Alpha

Born 2010-2024



Weekly births

2,586,000

Generation Alphas born globally each week

Top countries of birth

1



India

2



China

3



Nigeria

Future size & economic footprint

There are more than 2.1 billion Gen Alphas, the largest generation in the history of the world.

2,100,000,000

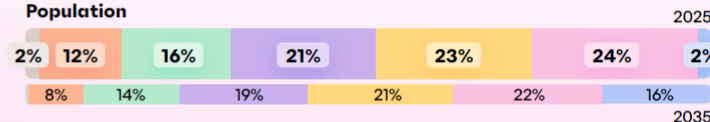
By 2029, Generation Alpha's economic footprint will reach more than US\$5.46 trillion.

US\$5,46 trillion

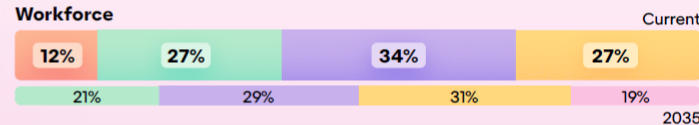
Global population and workforce %

Builders Boomers X Y Z Alpha Beta

Population



Workforce



Incoming technology



iPad



Instagram



Siri



GoPro HERO3



3D printers



Google glass



Apple watch



Tesla Powerwall



Fortnite



Smart speakers



AirPods



5G



Biometrics



Quantum computing



ChatGPT



Autonomous vehicles



Multimodal AI

Timeline

2010

2011

2012

2013

2014

2015

2016

2017

2018

2019

2020

2021

2022

2023

2024

2025

Outgoing technology



Myspace



Street directory



Pager



MP3 player



Blackberry



Fax machine



Landline phone



CD/DVD



GPS unit



Car key-ignition



Textbooks



Desktop computer



Cash



Credit cards



Wallet



Analogue watch



Milestones

First Alphas born

500 million

1 billion

1.6 billion

2.1 billion

First Betas born

New jobs

Cybersecurity specialist

UX manager

Drone pilot

Blockchain developer

Data designer

Virtual reality engineer

Robotics mechanic

Sleep technician

Sustainability officer

Driverless train operator

Wellbeing manager

AI specialist

Life simplifier

Urban farmer

Influencer trainer

Fintech developer

For more resources go to:
mccrindle.com

To book a speaker for your next event go to:
mccrindlespeakers.com

+61 2 8824 3422
info@mccrindle.com

mccrindle

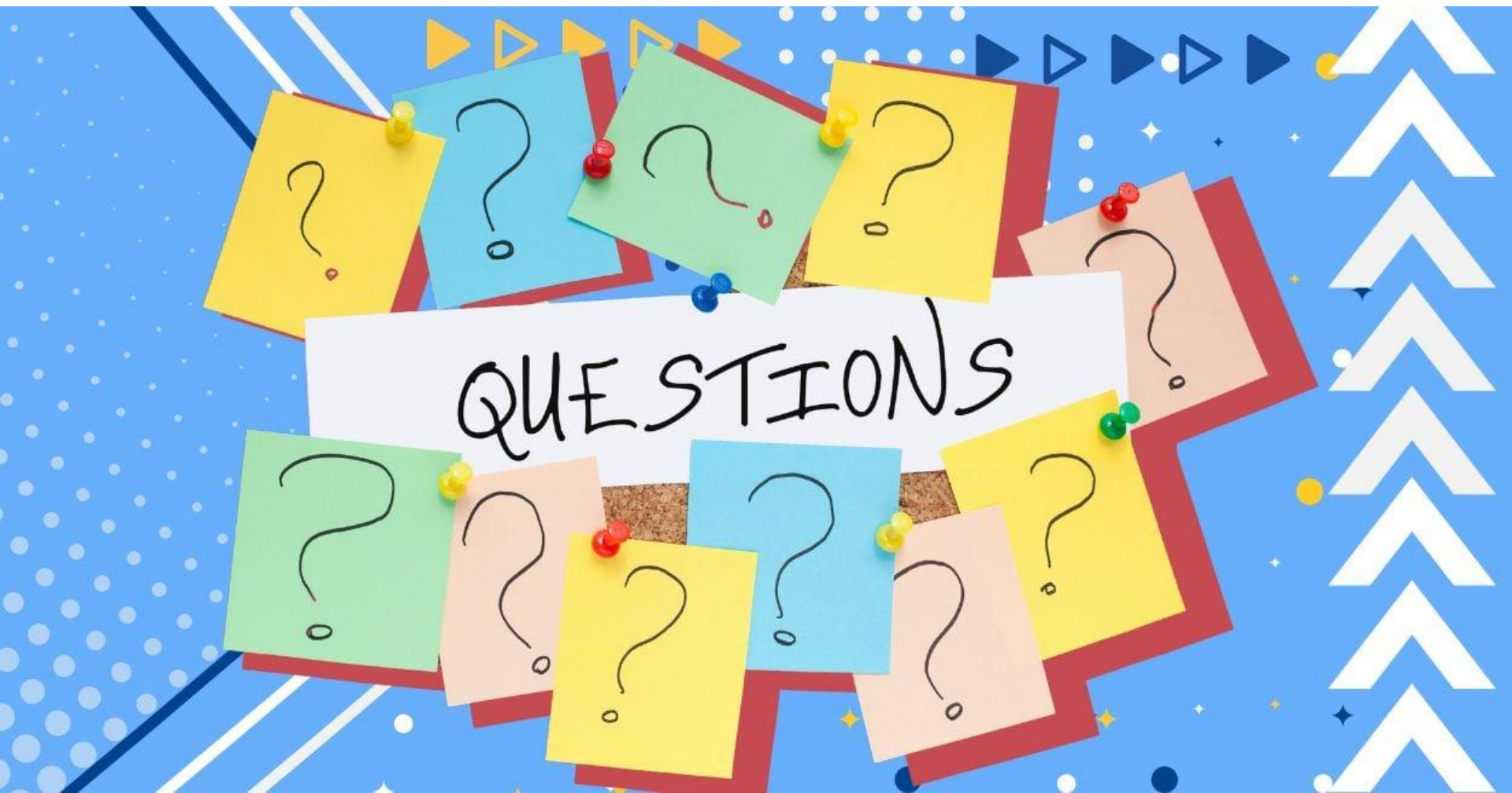


COMMUNICATIONS
MANAGEMENT
THE EDUCATION SPECIALISTS





**WHAT
ELSE?**



A red pushpin is pinned to the top center of the yellow sticky note.

THANK
You! 😊