



27th September 2023

William Bragg (LT 2.37)

16:00 – 18:00

- Applying for postdoctoral positions, tips and tricks
- Methods for researchers to get involved with engagement opportunities at the University



Today's schedule

Time	Topic
16:05	Dave Wong – Applying for Post Docs Tips and Tricks
16:50	Food break
17:15	Alexa Ruppertsberg – Engaging with the community
18:00 Onwards	Further networking



Applying for postdoctoral positions, tips and tricks



Careers in Academia

Dave Wong

Overview



Who am I (an appeal to authority)



A warning to ignore my advice



An overview of academic jobs



What I look for in a postdoc

Advice for applying for postdocs

Advice for applying for fellowships

About Me

- Associate professor in health data science
- Engineer by training
- ML/AI signal processing
 - Vital signs
 - ECG/PCG
 - Symptom checkers
 - Video



My journey so far...

2002:
Started Uni
(Meng)

2011:
Postdoc

2019:
Lecturer @UoM

2002

2006:
Started PhD

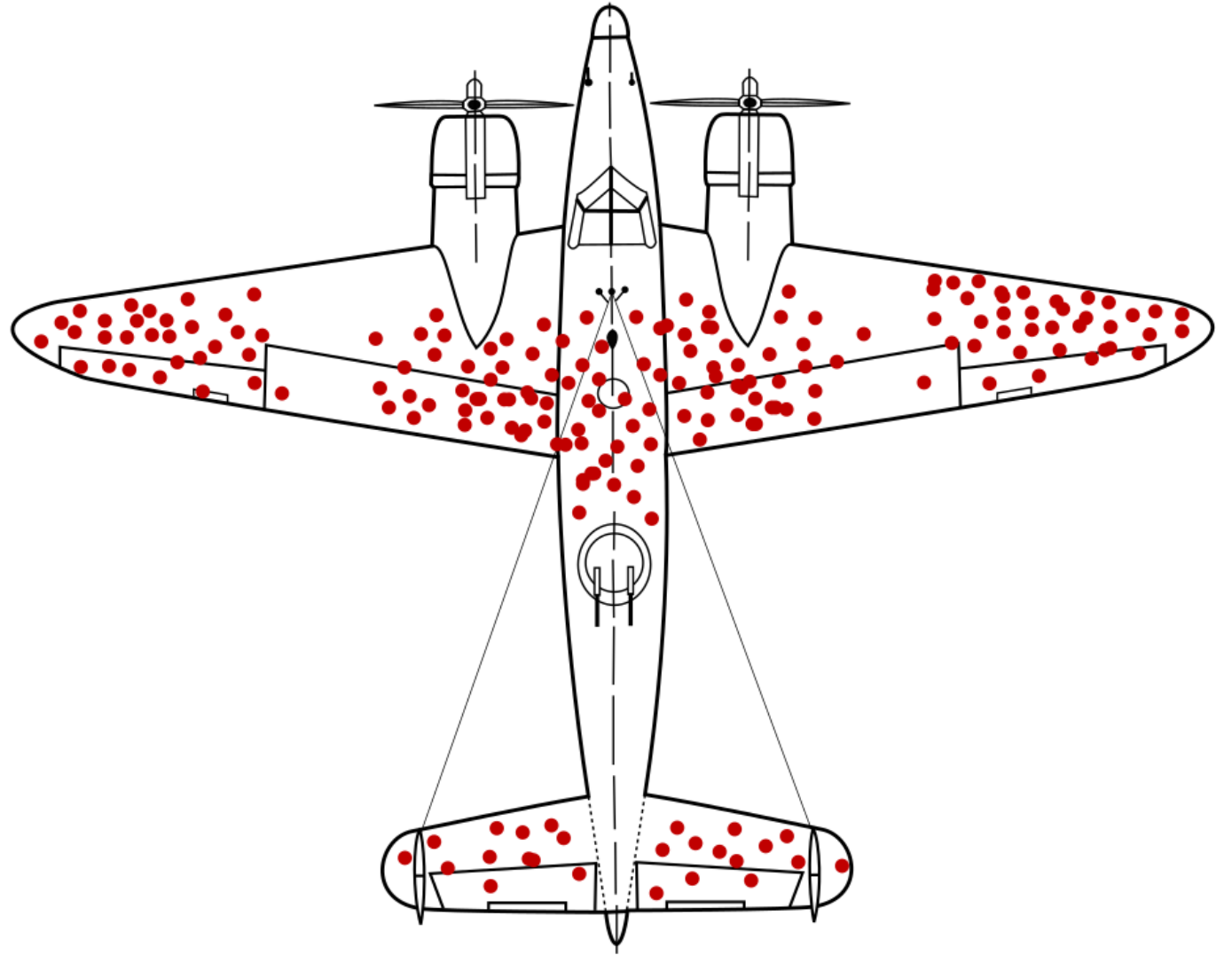
2012

2015:
Lecturer @UoL

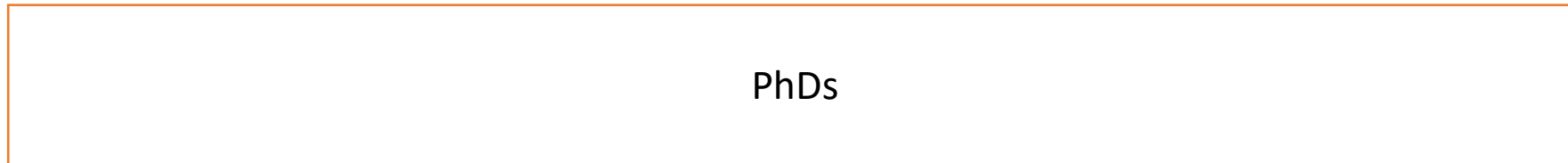
2022
A. Prof @UoL



Don't
Trust Me!



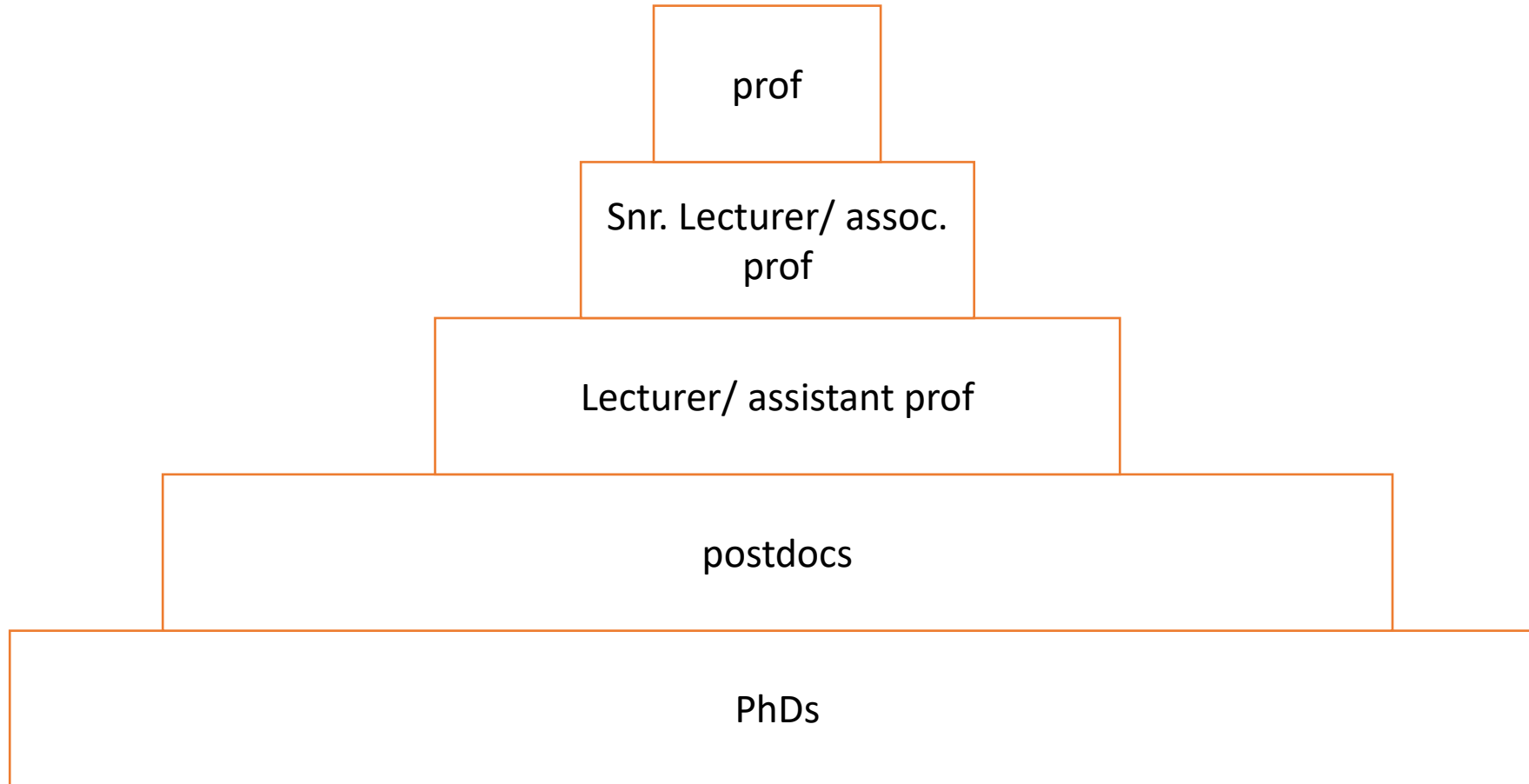
The Academic Pyramid



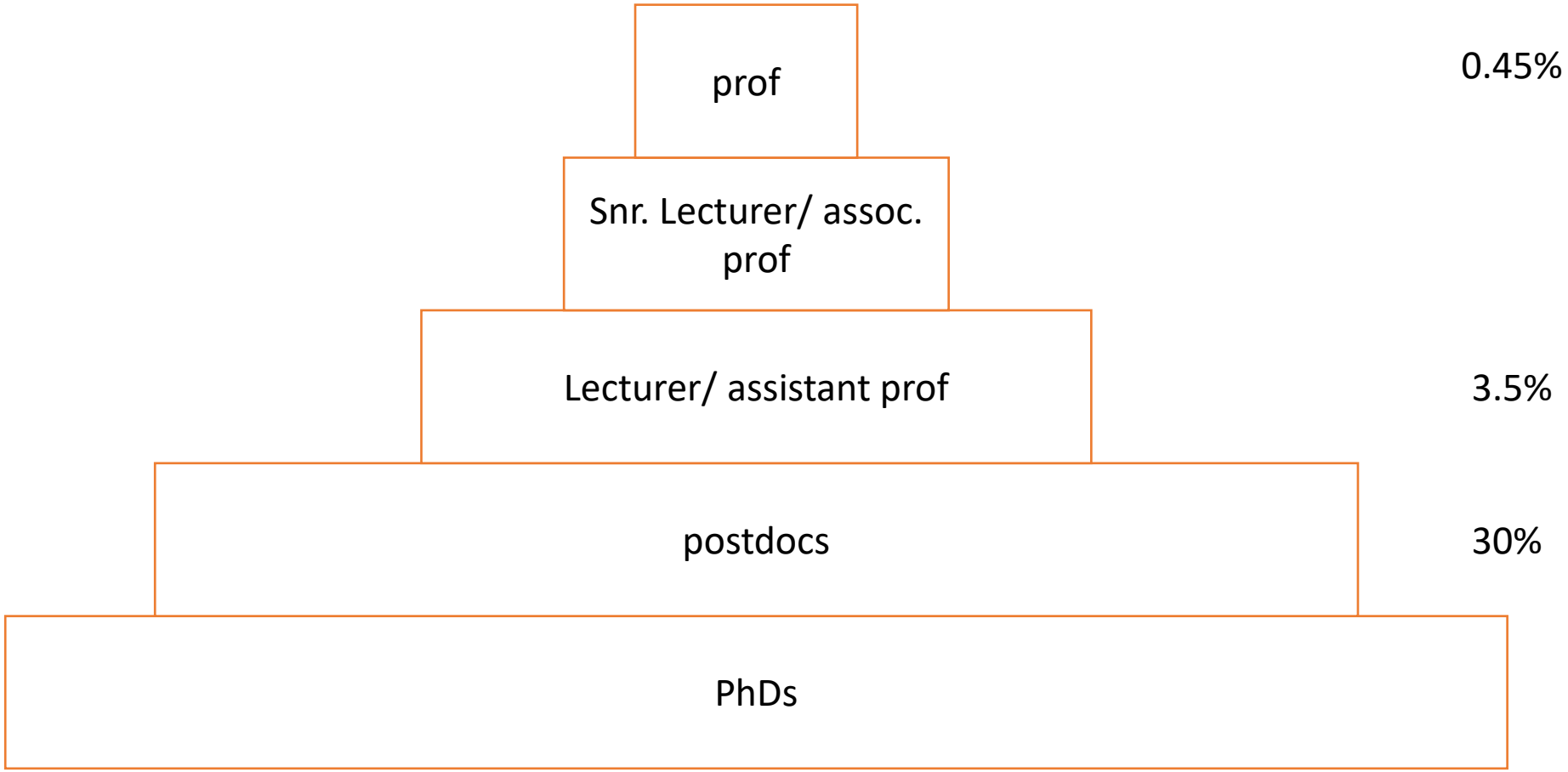
The Academic Pyramid



The Academic Pyramid



The Academic Pyramid

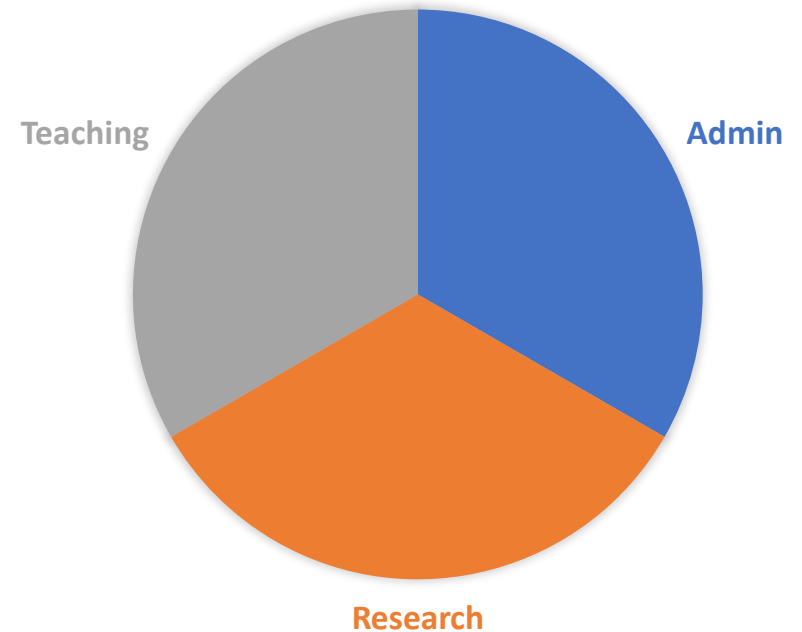


What is a post-doc?

- First academic job after a PhD (usually)
- Fixed term contract
 - Up to 5 years, but commonly 1-3 years
- Employed by:
 - A permanent member of staff
 - For a specific project – to do research
- Alternative – post-doctoral fellow

Permanent academic positions

- Lecturer -> Associate Professor -> Professor
- Traditionally Teaching & Research
 - Admin
 - Research
 - Teaching
- Teaching-focused track (and research only)
- University roles



Is academia worth it?

Pros	Cons
Working with interesting people	Relatively few academic jobs
Diverse work	Pay isn't as good as industry
Autonomy – I can go home if I have an 'off' day	Teaching is not for everyone
Flexibility in what I choose to research	

Why bother with a post-doc?



The freedom of doing a PhD,
but without the thesis!



Get paid a real salary



None of the admin that goes
with a permanent position

The purpose of a post-doc (academic's view)

- Postdoc usually attached to externally-funded project
- Project has goals
- Goals need to be met
- **Therefore: best candidate to deliver the project goals**



Tip 1: the job description is king

If there is a formal application process, read the guidance

The number of people who don't read - and therefore don't answer - the questions that we've set as part of the application process is unbelievable. That's the most common factor for rejections. If you're applying for a position it's really important to read the questions and guidance in detail.
(Ken Emond, head of research awards, British Academy)

Tip 2: no really – read the job description

- Candidates selected for interview *have* to be objectively assessed against the job description criteria

Name	redeployment?	Can start?	skills - comp vision	skills - apps	skills - research				
x		x	8	6	5				
x		x	3	2	3				
x		x	0	1	5				
x	x (not actually)	x	0	0	0	can't see cv, didn't list phd supervisor as referee			
x	x (not actually)	x	3	1	6				
x		Jan-23							
x		x	1	1	3				
x		x	4	6	6				
x	x (not actually)	x	5	2	6				
x		x	7	4	8				
x		november							
x		x	2	1	2				
x	x (not actually)	x	7	1	2 (not reputable journals)				

Tip 3: Common things in ML/AI

- Evidence of coding experience in a statistical programming language
 - Maintain and share a github repo
- Ability to use source control
- Underlying understanding of methods
 - Anecdotal evidence: 90% of interview candidates don't have a good understanding of the job topic

Tip 4: Write papers

- Talk to your supervisor about your career plans
- Plan thesis with papers in mind
- Consider side-projects
 - Paper
 - Team coding skills



Tip 5: Networking

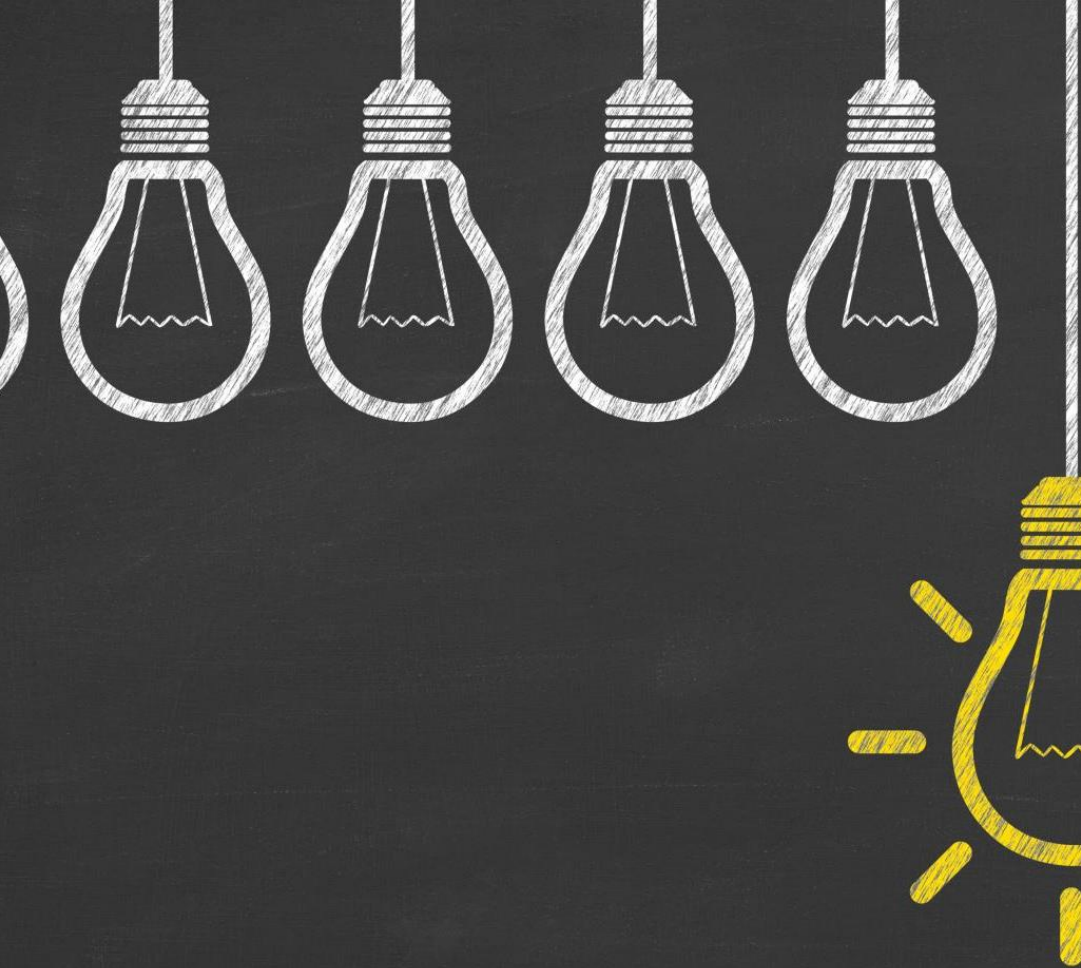
- PhD examiner
- Conferences
 - Don't treat a conference as a holiday!
 - See who else is attending, and message beforehand



Competency & interviewer	Question
Communication & qual research skills + experience <i>Asked by: all (moderated by S)</i>	<p><u>Five minute</u> presentation by applicant followed by questions to assess verbal communication skills (C9)</p> <p>Follow-up questions to assess:</p> <ul style="list-style-type: none"> - Knowledge of range of qualitative research methods (C6) - L - Knowledge of relevant theories/frameworks (C10) -D - Experience of applying for ethics & governance approvals (C3) - R
Comment & rating	1 2 3 4 5
Motivation / career trajectory <i>Asked by: S/</i>	<p>Tell us briefly about your past experience and how this led up to you applying for this particular <u>role</u></p> <p>At a high level, what relevant experience and skills do you see as being your <u>particular strength</u>?</p> <p>To assess:</p> <ul style="list-style-type: none"> - Experience of conducting, <u>analysing</u> and writing up qualitative research in health/social care settings independently (C2) - Ability to search, read, <u>critique</u> and synthesise academic and grey literature (C7)
Comment & rating	1 2 3 4 5

The Interview Process (it's still the job description!)

- Interviewers ask pre-prepared questions
- Each question graded
- Highest overall score



Fellowships

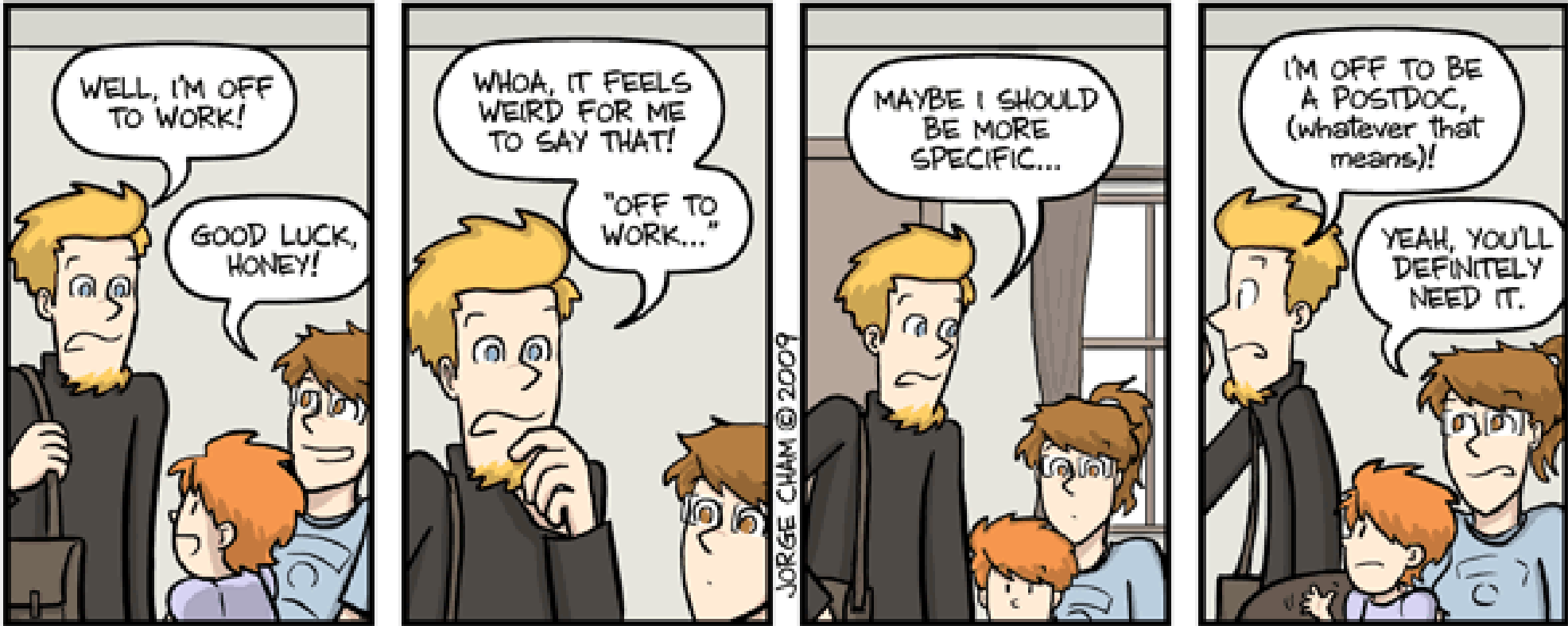
- Key difference: funding goes directly to *you* to do your own research
- Funders typically look for:
 - Clear research idea
 - Independence from PhD supervisor
 - “potential” in the candidate



Timescales

- 8 weeks to produce a polished application
- Review from more senior academics
- Practice interviews

Jazz Hands



JORGE CHAM © 2009



Methods for researchers to get involved with engagement opportunities at the University



Engaged research

Dr Alexa Ruppertsberg

Head of Public Engagement with Research

Contact us: peteam@leeds.ac.uk

ris.leeds.ac.uk/impact/public-engagement

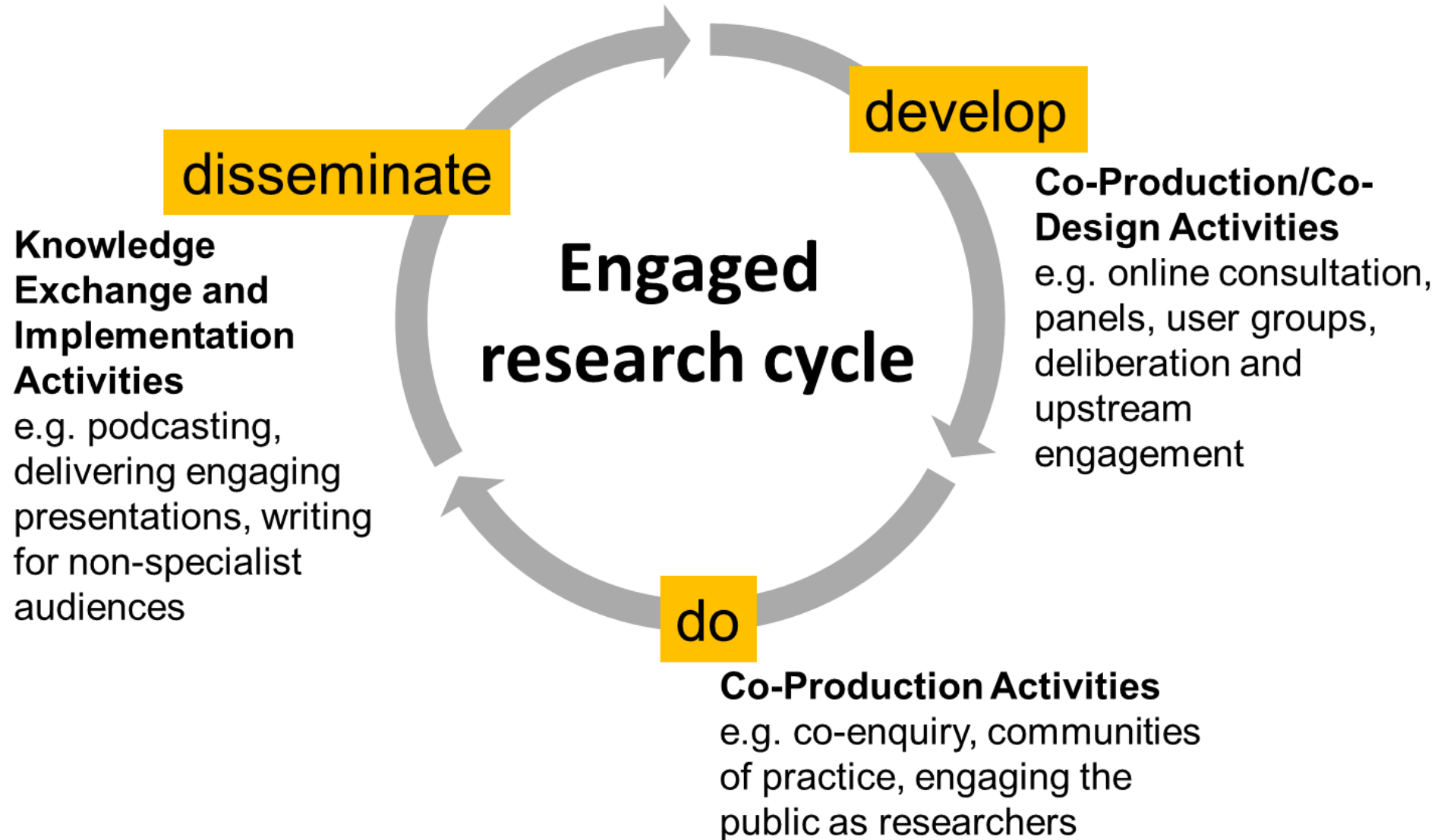
Research + Engagement
Why engage?
=

Make a difference

Examples of engagement with research

Public engagement	Patient involvement	Schools and community outreach	Citizen Science
Participatory research	Collaboration with businesses, charities and the third sector	Partnerships with museums and galleries	Science-Art collaborations
Co-design	Co-production	Collaborative research development	Policy engagement

Engaged research cycle



Open science,
open research,
engaged research,
responsible research



Engagement with research at Leeds

Engagement describes the myriad of ways in which the activity and benefits of higher education and research can be shared with a range of stakeholders. These stakeholders can be the public, policy makers, businesses, the public sector and patients.

Engagement is by definition a two-way process, involving interaction and listening, with the goal of generating mutual benefit.



Essentials of good engagement: ADA

good engagement takes many varied forms

ADA is a good starting point when planning engagement with research:

- **AIM**
- **DEMOGRAPHIC**
- **ACTIVITY**



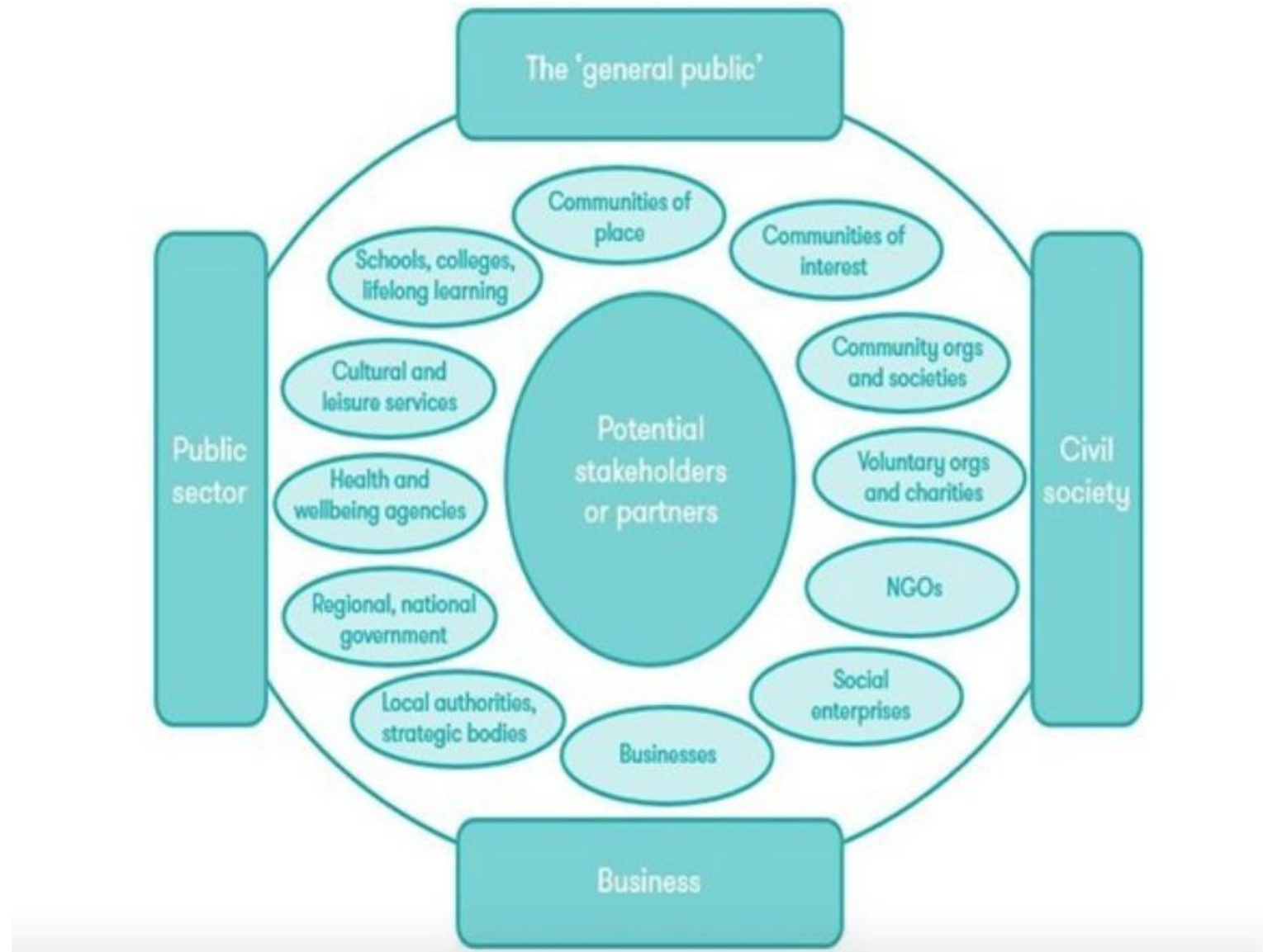
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General Impact framework

<p>SDGs</p>						
<p>Impact</p>	<p>Social capital Civic involvement Volunteering Trust in others Social cohesion</p>	<p>Human capital Education & skills Social mobility Participating in learning, sport and culture</p>	<p>Quality of life Personal wellbeing (happiness, life satisfaction) Access to services Relationships</p>	<p>Health Effectiveness of services Experience of services Safety</p>	<p>Prosperity Wealth creation Income equality Efficiency Personal finances</p>	<p>Environment Enhanced <ul style="list-style-type: none"> Natural Built Heritage Lived environments </p>
<p>Type of impact</p>	<p>Conceptual Communicating the meaning of research beyond academia</p>		<p>Instrumental Influencing policies, products and services to better reflect public interests</p>		<p>Capacity building Influencing individual and collective behaviour and skills to realise public benefit</p>	
<p>Outcomes</p>	<p>Enlightenment: Inspiring wonder, curiosity and learning; meaning and sense making</p>	<p>Criticism: Provoking challenge, scrutiny and debate; holding to account</p>	<p>Innovation: new ways of thinking and acting; new products and knowledge; creating, galvanising change</p>	<p>Reflexivity: prompting dialogue and deliberation; exploring risk; informing decision making</p>	<p>Connectivity: building networks; encouraging participation and involvement</p>	<p>Capability: building skills; influencing behaviours and practices; empowering</p>
<p>Indicators/proxies</p>	<p>Challenge conventional wisdom Challenge professional orthodoxies Change understandings Stimulate learning and reflection</p>		<p>Change standards/regulation Change accountability regimes Influence new products and services Change policies</p>		<p>Inspire participation and progression Teach new skills Change behaviours, including participation and involvement</p>	

Who?



The 'so what?' factor...

Why would a particular demographic be interested in your work?

Thinking like the people you want to engage with

- ▶ What are they interested in?
- ▶ What are their values?
- ▶ What kind of language do they use?
- ▶ Which environments are they most comfortable in/familiar with?
- ▶ How can you support your audience to engage?

What do you want to gain from engagement?

What will those involved gain?

Examples

- ▶ Developing skills
- ▶ Gaining the perspective of a particular community
- ▶ Empowering or amplifying the voice of a particular group
- ▶ Informing an interest group of a research finding that may benefit them
- ▶ Informing and influencing policy change
- ▶ Inspiring the next generation
- ▶ Evidence of impact for funding applications and REF

Evidencing your impact

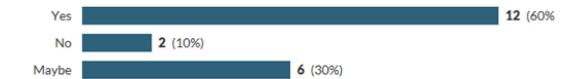
- **Evaluation methods can be very varied** – both qualitative and quantitative
- **Be creative!** Evaluation doesn't have to be limited to the traditional questionnaire format.
- **Not just at the end:** how can you incorporate feedback gathering into your activity or event?
- **Don't over-evaluate** – evaluation should be proportionate, relevant & meaningful to your activity!
- **Your specific objectives will determine the best evaluation methods to choose**



u/will you use your experience at Be Curious as a stepping stone to public engagement activities at other venues



r activity in Be Curious, or other PE work feature when you write funding bids?

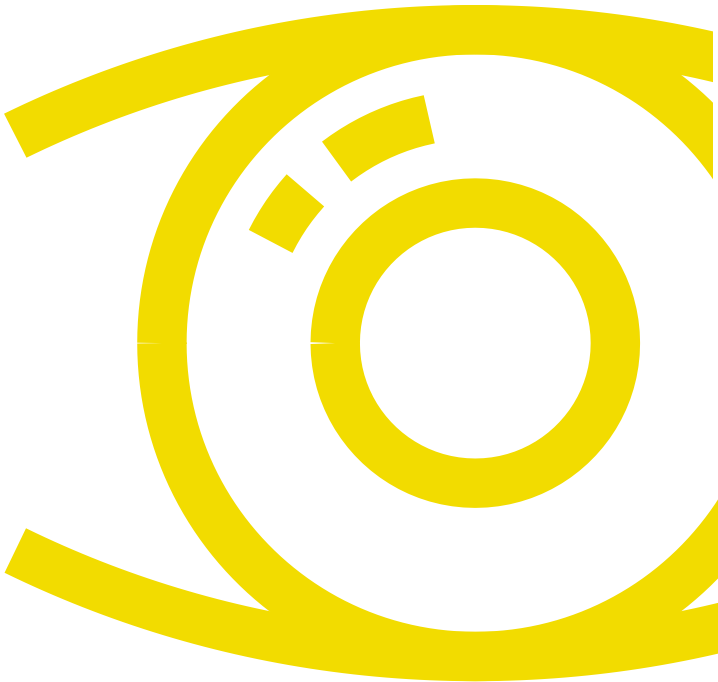


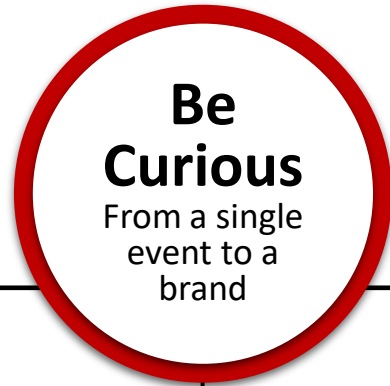


Existing Opportunities –
Be Curious

Vision.

**Be Curious aims
to make research
accessible and
relevant to people,
especially those
living in Leeds.**





Live in-person event

Live virtual lectures

Creative strands

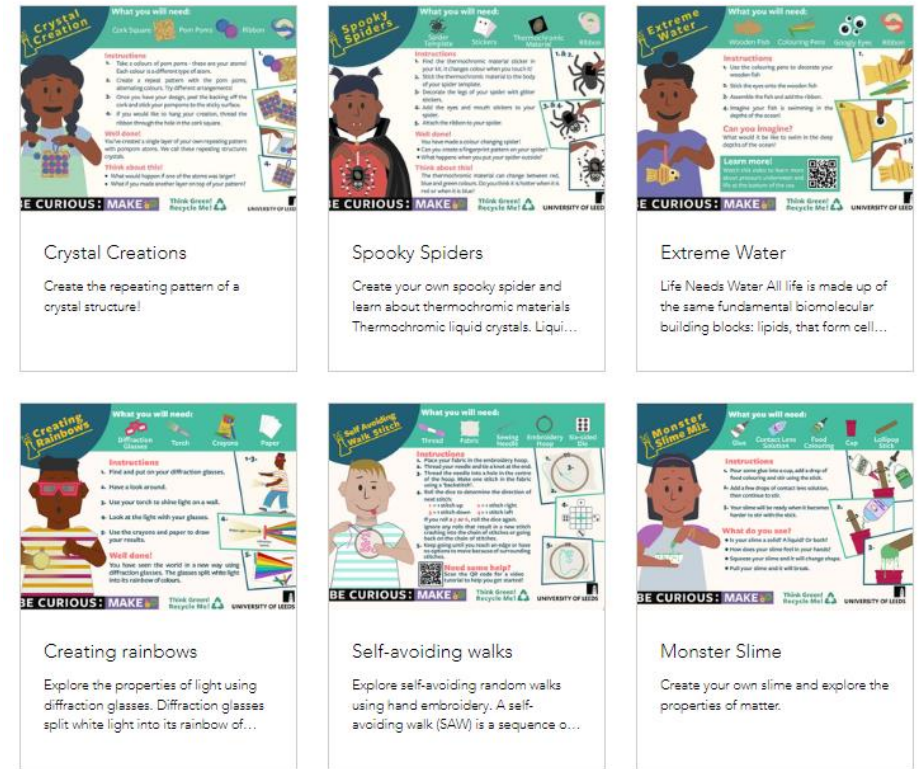


Be Curious @BeCuriousLeeds

<https://www.leeds.ac.uk/becurious>

BE CURIOUS: MAKE

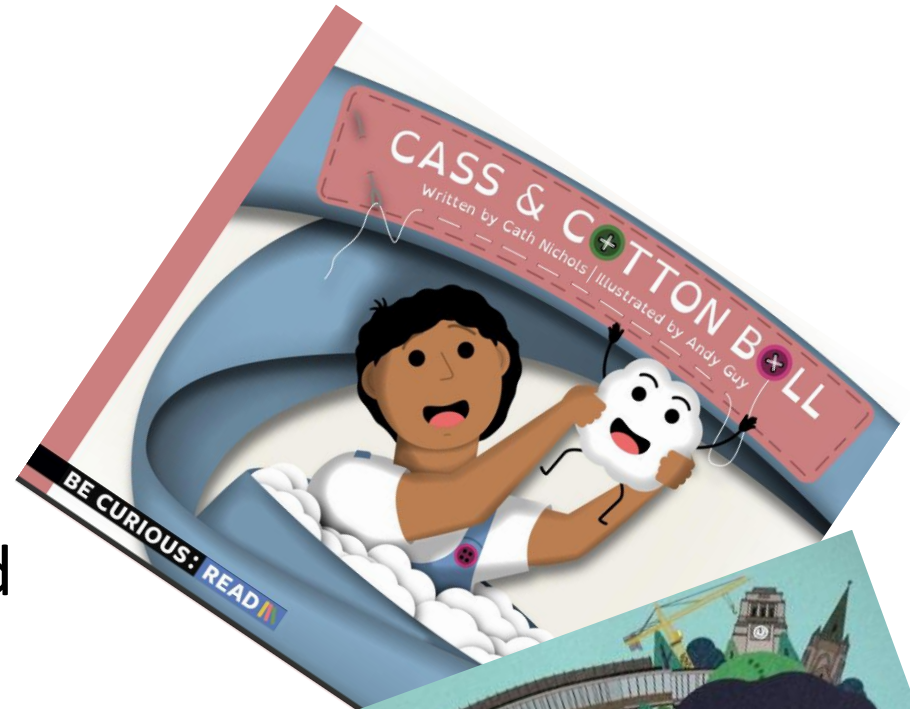
- kits containing low-cost materials to explore a research topic through making
- Professor Lorna Dougan's idea (EPSRC PE champion)
<https://www.creatematerialsinnovation.com/maker-kits>
- 7 kits produced and [prize won](#)



2022 Elspeth Garman Prize for Public Engagement

BE CURIOUS: READ

- Turning research into books for children
- Over 2000 copies given away for free via primary schools, foodbanks, libraries and charities in Leeds and Bradford
- <https://spotlight.leeds.ac.uk/thats-amazing-mum/>



Existing Opportunities

- 'Engaged Research' on TEAMS (join code: fc84jre)
- Research Development Fund (RDF), funding to co-create research proposals
- pepnet meetings (4-6 per year, 1hr) for sharing best practice and exchange on all things related to engagement with research
- Make your engagement activity count: log it on **Symplectic** (<https://publications.leeds.ac.uk>) under the professional activities tab.
- Just ask us! For ideas, tips, feedback, evaluation conundrums, proposal writing

Existing Opportunities

- Be Curious Associates and Be Curious Fellowship Schemes
open now: <https://leeds365.sharepoint.com/sites/BeCuriousAssociates>

SharePoint

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Be Curious is evolving

From a single event, it has expanded into a portfolio of projects under the Be Curious brand.

With the expansion of Be Curious more engagement chances exist for your research, tailored to your preferences. By taking part in the Be Curious Associates programme, you will be considered first for these opportunities.

Become a Be Curious Associate for access to training, opportunities and resources. Equipping you with the skills to enhance your public engagement and effectively connect with your audience.

Watch on YouTube

Be Curious 2023 Highlights Extended

Watch Later Share

BE CURIOUS 2023

Hear from researchers who took part in Be Curious 2023.

Apply now

Stay updated

Be Curious Associates and Fellowship application close in

24 02 49
days hrs min

Apply now

Existing Opportunities

- Coming in 2024:
'Be Curious on Tour' for Smeaton300
- Primary School Engagement

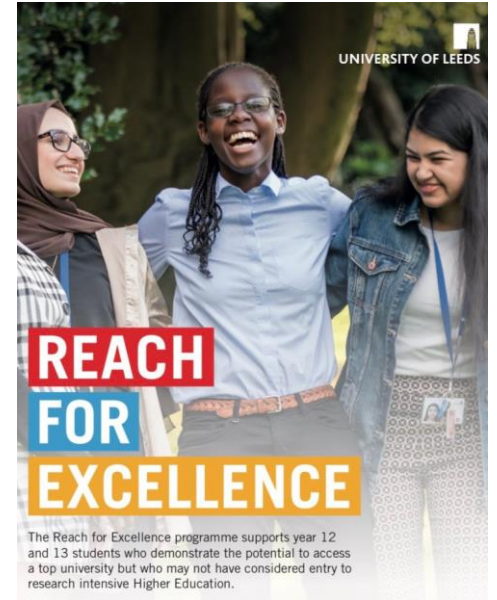


Existing Opportunities

- *Research LIVE (PGRs only), online events hosted online by Leeds Doctoral College (contact doctoralcollege@leeds.ac.uk)*
- [Bradford Science Festival](#)
- [Otley Science Festival](#) and [Otley Science Cafes](#)
- Leeds Museums and Galleries [My Learning platform](#)
- [Pint of Science - Leeds Branch](#)
- [STEM ambassador scheme](#)
- [I'm a scientist, get me out of here](#)
- [Soapbox Science](#)
- London-bound: Cheltenham Science Festival , Royal Society Summer exhibition, New Scientist Live
- [Leeds Light Night](#) (contact the Cultural Institute)
- [Ilkley Literature Festival](#) (contact the Cultural Institute)

Existing Opportunities – Secondary School engagement

- The University's **Educational Engagement** service works with pre-entry students (secondary school and college-age) to engage learners and try to inspire future study
- Contacts:
 - **Stem Outreach Team** <https://www.stem.leeds.ac.uk/>, stem@leeds.ac.uk
 - **Health Sciences Outreach Team** <https://www.healthsciences.leeds.ac.uk/>, medicineandhealth@leeds.ac.uk
 - **Arts and Humanities Outreach Team** <https://artsoutreach.leeds.ac.uk/>, artsoutreach@leeds.ac.uk
 - **Social Science Outreach Team** <https://socialsciencesoutreach.leeds.ac.uk/>, socialscience@leeds.ac.uk
 - **Contextual Outreach Team** (widening participation programmes) <https://contextualoutreach.leeds.ac.uk/>, contextualoutreach@leeds.ac.uk



We are here for you!



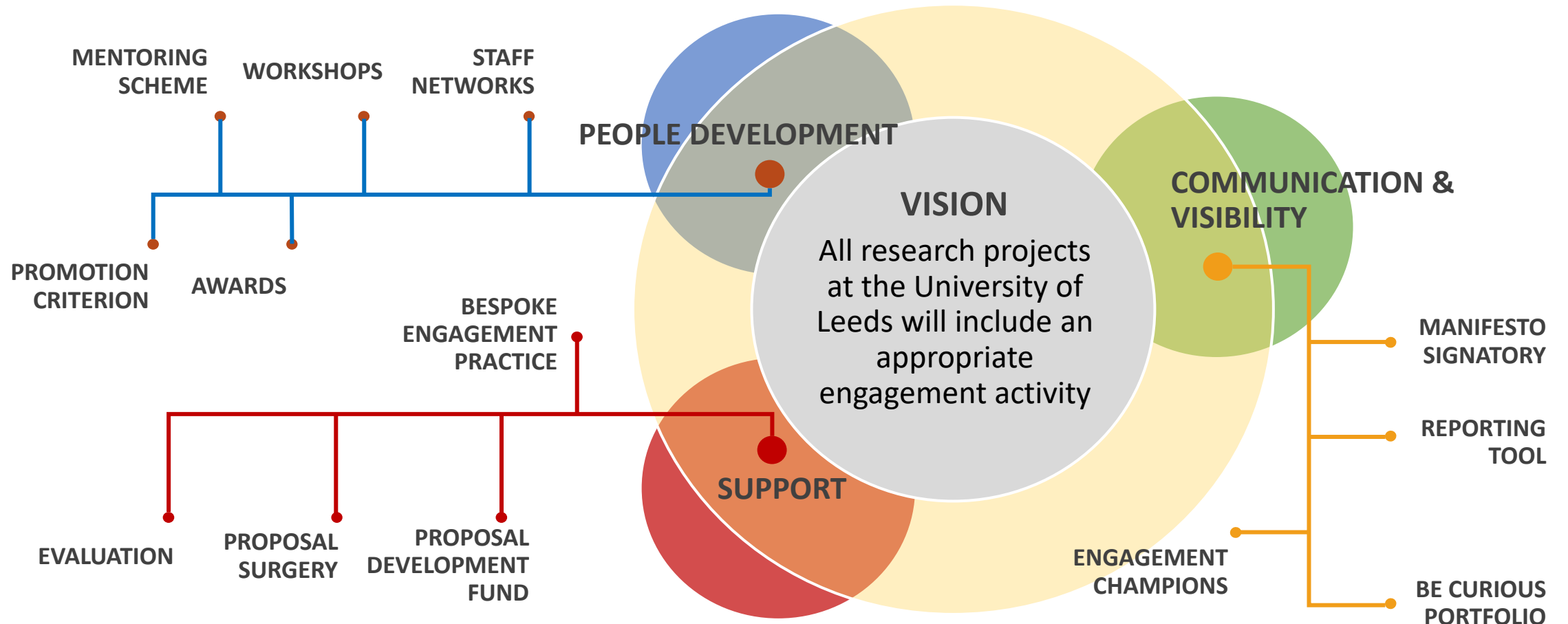
Celine Roblin-Robson



Alexa Ruppertsberg



Andy Guy





Next month:

Wednesday 25th October 4-6pm

William Bragg SR (GR.25)

Dr Duygu Sarikaya (lecturer of data science in the School of Computing) – Surgical vision and perception and medical image computing