DR KATY CLOUGH

STAYING IN THE PIPELINE

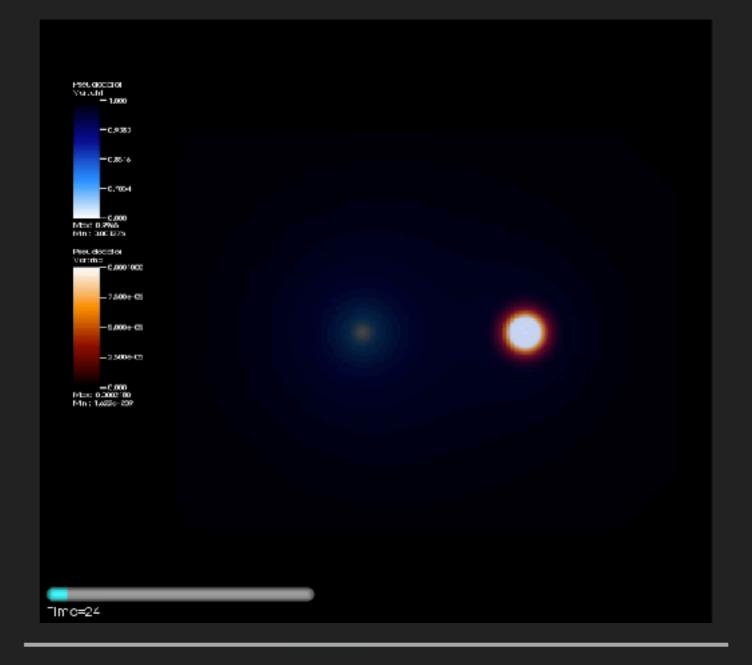
DISCLAIMERS

- I can of course only talk from my own experience
- I will generalise (sometimes wildly) to make points and get your interest #notallwomen #notallmen #notallbigfouraccountancyfirms etc

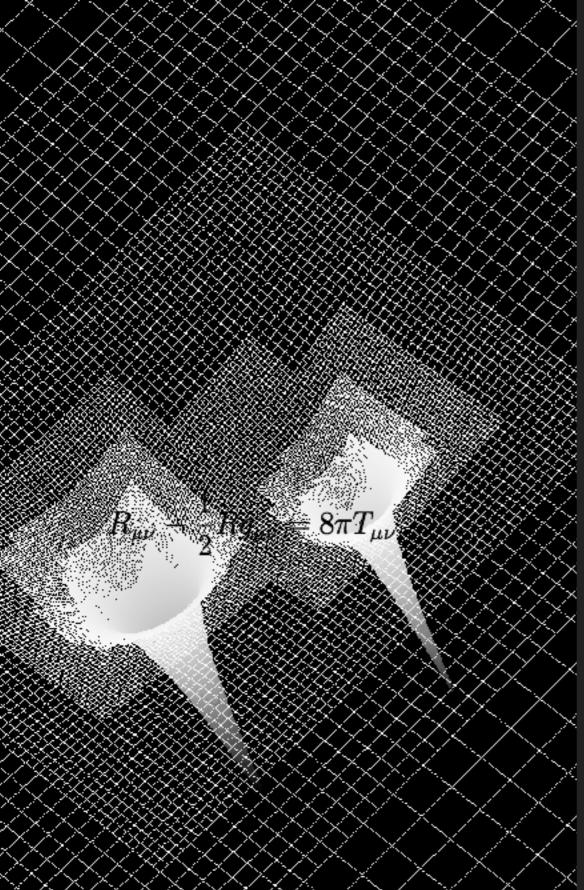
I DON'T HAVE THE ANSWER TO WHAT YOU SHOULD DO IN LIFE, BUT...

- I would recommend that you stay in science
- This does not necessarily mean academia
- If you leave science you will miss aspects of it which I think are important in a career
- It is easy to make the decision to leave science for the wrong reasons

$$R_{\mu
u} + rac{1}{2} R q_{\mu
u} = 8 \pi T_{\mu
u}$$



ABOUT ME



- MENG IN OXFORD
- CA IN BIG 4 ACCOUNTING FIRM
- MANAGER IN INVESTMENT CO
- OPEN UNI DEGREE IN PHYSICS
- PHD IN PHYSICS AT KCL
- POSTDOC IN GOETTINGEN
- POSTDOC IN OXFORD

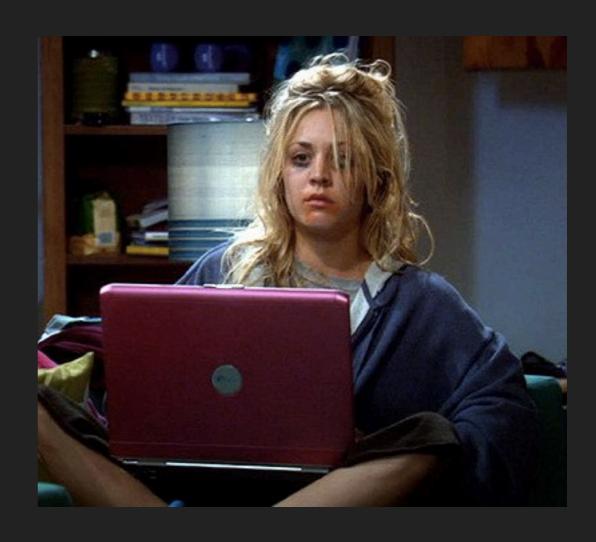
ABOUT ME

MY THREE BIG DECISIONS

- Do PhD or become chartered accountant?
- Do PhD in physics or stay in finance?
- Do postdoc in Germany or work in government (operational research)?

DECISION 1: BECOME AN ACCOUNTANT? (VERSUS DO A PHD)





DECISION 1: BECOME AN ACCOUNTANT? (VERSUS DO A PHD)

- Reasons for:
 - Challenge
 - Relationship reasons
 - Money
 - Fear of failure
 - Advice from others

- Reasons against:
 - Gut instinct

DECISION 1: BECOME AN ACCOUNTANT? (VERSUS DO A PHD)

- Reasons for:
 - Challenge GOOD BUT MISGUIDED
 - Relationship reasons BAD
 - Money NOT COMPLETELY UNREASONABLE
 - Fear of failure



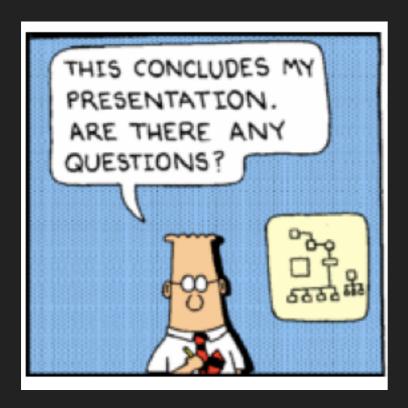
Advice from others

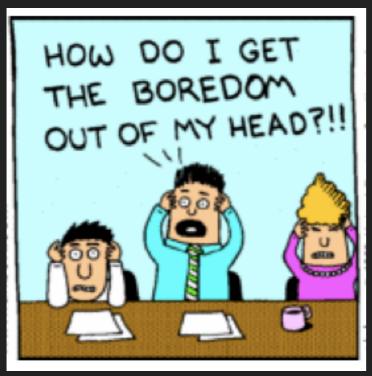


- Reasons against:
 - Gut instinct



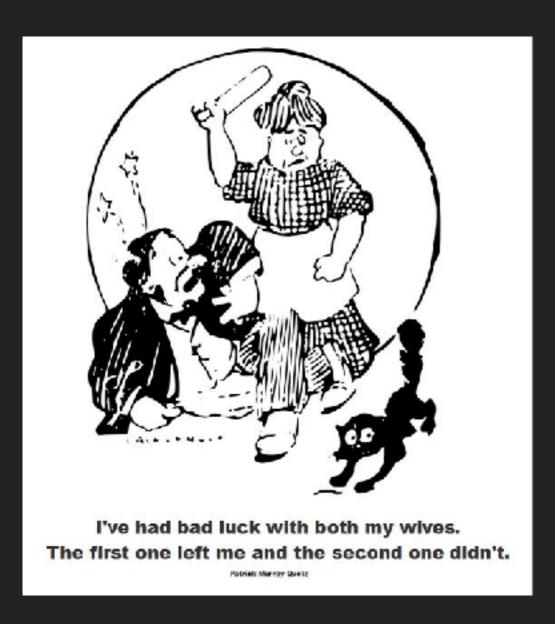
- Caring about what you do
- Creativity
- Freedom to think





THE "REAL WORLD" OF WORK IS CHALLENGING BECAUSE IT IS TEDIOUS, POINTLESS AND DIRTY

CHALLENGE



THE BEST THING YOU CAN DO FOR YOUR RELATIONSHIP IS TO MAKE YOURSELF FULFILLED IN YOUR WORK

RELATIONSHIPS



- TRAINEE CA £32-35K
- QUALIFIED ACCOUNTANT £60K + BONUS (50%)
- PHD £14K (NO TAX)
- POSTDOC 1 €32K
- POSTDOC 2 £32K

MONEY

IT IS POSSIBLE TO COMMIT NO MISTAKES AND STILL LOSE. THAT IS NOT A WEAKNESS. THAT IS LIFE.



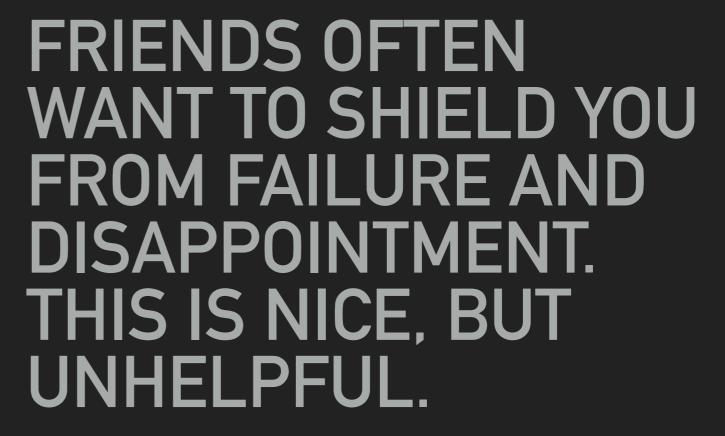


Captain Jean Luc Picard Star Trek TNG

FEAR OF FAILURE

LEAVE YOUR HESITATION AND SELF DOUBT HERE AND GET TO THE BRIDGE

WHAT WOULD YOU DO IF YOU HAD NO CONSTRAINTS?

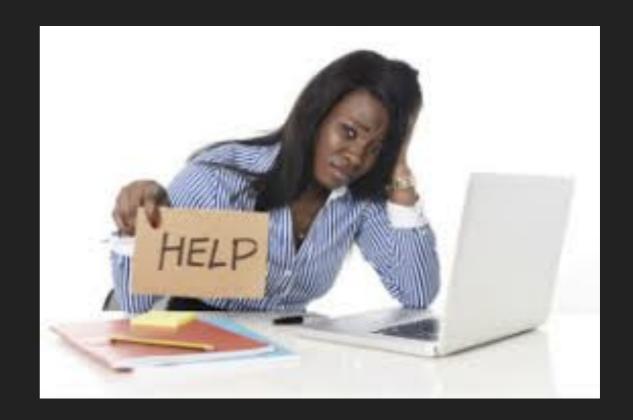




ADVICE FROM OTHERS

DECISION 2: DO A PHD IN PHYSICS? (VERSUS STAY IN FINANCE)





DECISION 2: DO A PHD IN PHYSICS? (VERSUS STAY IN FINANCE)

- Reasons for:
 - Care about what I do
 - Creativity, space to think
 - Gut instinct
 - The purity of scientific endeavour

- Reasons against:
 - Money, but who cares?

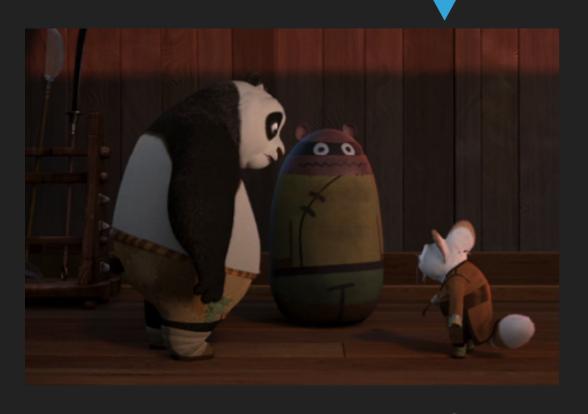
DECISION 2: DO A PHD IN PHYSICS? (VERSUS STAY IN FINANCE)

- Reasons for:
 - Care about what I do GOOD
 - Creativity, space to think
 - Gut instinct GOOD
 - The purity of scientific endeavour

- Reasons against:
 - Money, but who cares?

Going back to level zero

THERE IS NOW A LEVEL ZERO



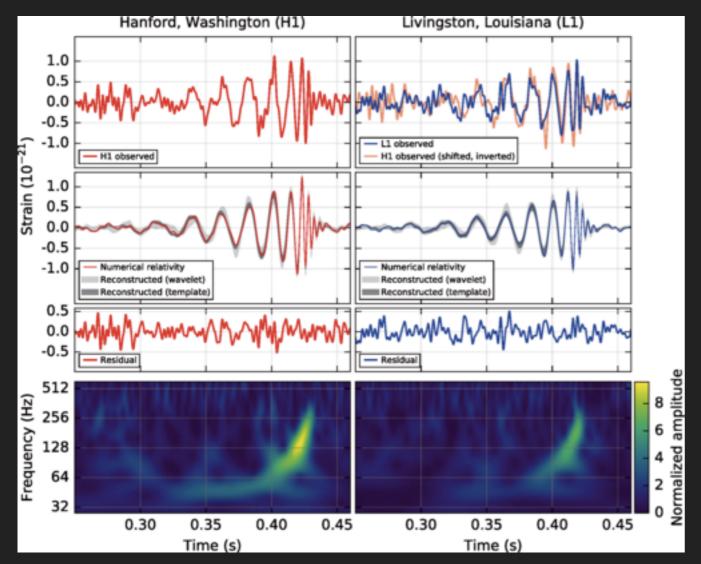
Master Shi fu Kung Fu Panda IF I HAD KNOWN
HOW MUCH I DIDN'T
KNOW, I PROBABLY
WOULDN'T HAVE
DONE A PHD

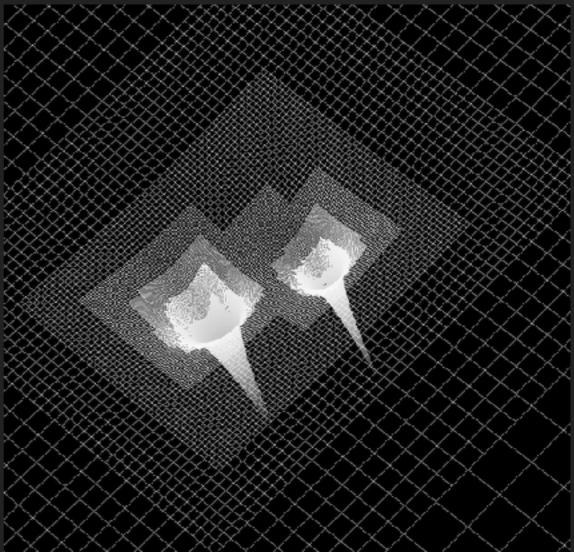
FROM PRO TO LEVEL ZERO

PEOPLE IN SCIENCE ARE ULTIMATELY **AS CRAZY** AS PEOPLE IN THE "REAL WORLD" OF **BUSINESS**



THE PURITY OF SCIENTIFIC ENDEAVOUR





LIGO Collaboration, PRL 116, 061102 (2016)

Observation of Gravitational Waves from a Binary Black Hole Merger

BUT SCIENCE ITSELF IS BEAUTIFUL AND IMPORTANT AND INSPIRING

DECISION 3: DO POSTDOC IN GERMANY? (VERSUS WORK FOR GOVERNMENT OPERATIONAL RESEARCH)





DECISION 3: DO POSTDOC IN GERMANY? (VERSUS WORK FOR GOVERNMENT OPERATIONAL RESEARCH)

- Reasons for:
 - Continue doing research that I enjoy
 - Doing something I feel is important and interesting
 - Working with very smart, very motivated people
 - Bigger office (!)

- Reasons against:
 - Insecurity of postdoc life
 - Money
 - Fear of failure
 - Advice from others
 - Relationship
 - Still often feel like level zero

IN SUMMARY

- It's very tempting to take the easy path, because of money, pressure from others and/or a fear of failure
- Your working life is long do you want to be doing this for the next 50 years? It is never too late to learn or change your path
- Don't take science for granted, it is worth pursuing

WHATEVER YOU DO, GOOD LUCK