



Who am I?

- **Experimental Particle Physicist:**
 - Diploma in Physics and Maths Birkbeck College 1999-2001
 - Undergraduate UCL 2001 -2005 (MSci Physics)
 - PhD from UCL 2005 - 2009 (Higgs search, ATLAS)
 - [LHCsound 2009-2010 \(Sonification of ATLAS data\)](#)
 - Argonne National Laboratory 2010 – 2014 (Higgs and QCD, ATLAS)
 - Royal Society Fellowship 2014-2019 (Higgs, QCD, top physics, Monte Carlo techniques, ATLAS)
 - [Secondment to Foreign & Commonwealth Office 2018 \(Illegal Wildlife Trade\)](#)
 - Senior Lecturer at Sussex 2019 - present (Neutrino oscillations, Machine Learning, NOvA & DUNE)

Who am I?

- **Lecturer & Advisor:**

- Mechanics & Relativity 2017-present (was classical mechanics)
- Intro to Quantum Physics 2019-present (was modern physics)
- Four PhD students (ATLAS Higgs, QCD; NOvA ML)

- **Person:**

- Born in 1978, grew up in South London
- Probably not neurotypical
- Mother since 19, J is now 22



What do I want from you?

1

COME TO LECTURES
(IN PERSON OR ON
ZOOM)

2

ASK QUESTIONS

3

WORK HARD

What will you learn here?



Weekly content	
Week/Topic 1: Preface	
Week/Topic 2: The Electron	Mark completed
Week/Topic 3: Radiation	Mark completed
Week/Topic 4: The Photoelectric Effect	Mark completed
Week/Topic 5: Compton & X-rays	Mark completed
Week/Topic 6: Atomic Spectra	Mark completed
Week/Topic 7: Rutherford	Mark completed
Week/Topic 8: Bohr & De Broglie	Mark completed
Week/Topic 9: Heisenberg & Schrodinger	Mark completed
Week/Topic 10: Nuclear Physics	Mark completed
Week/Topic 11: Particle Physics	Mark completed

What do
you want
from me?

pollev.com/ilovephysics

