Sheila McBreen School of Physics University College Dublin



Investing in People and Ideas

Irish Research Council for Science, Engineering and Technology







University College Dublin

BSc Joint Honours (1995-2000) Computer Science & Experimental Physics Year Work Experience: Sun Microsystems (1999)



University College Dublin

PhD (2000-2004)

Observational Astrophysics: Gamma-Ray Bursts



European Space Agency

PhD (2004-2006) Research Fellow



Marie Curie Fellowship at Max Planck

PhD 2006-2008

Gamma-ray/optical/instrumentation/observing Followed by 3 year Postdoctoral Fellowship













University College Dublin

BSc Joint Honours (1995-2000) Computer Science & Experimental Physics Year Work Experience: Sun Microsystems (1999)

- UCD Science
- Summers abroad (Germany, US, Scotland) not doing any science
- Year working during degree in Sun Microsystems

University College Dublin

PhD (2000-2004)

Observational Astrophysics: Gamma-Ray Bursts



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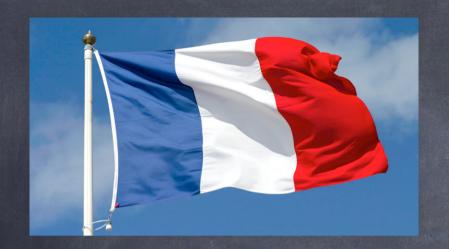
- PhD: initially funded by UCD
- IRCSET call
- Negative people
- 3 years funding, travel, fees

Feedback



- First Marie Curie Application
- Rejected.

- Positives: science, match to host
- Negatives: did not address the training aspect at all!



Was awarded independent funding in France, but declined.

European Space Agency

PhD (2004-2006) Research Fellow



Revised MC to go to Max Planck for extraterrestrial Physics (MPE)

- Successful
- Addressed the training in the second MC application
- Addressed management plan
- Detailed discussion with MPE group
- Read the evaluation criteria properly!

Marie Curie Fellowship at Max Planck

PhD 2006-2008

Gamma-ray/optical/instrumentation/observing Followed by 3 year Postdoctoral Fellowship



Excellent opportunities







Signed to stay for 3 years

Lectureship at UCD: started 2009



- Marie Curie Re-Integration grant
- 3 years travel funding
- Lean years

Since 2009 Science Foundation Ireland



- 2010:Good feedback, good marks
- Rejected & Dejected



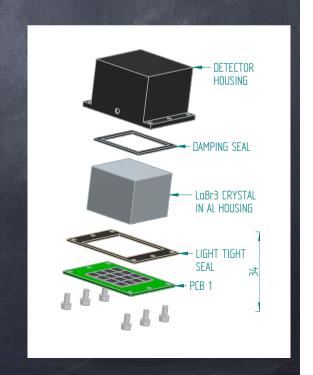


- More attention to impact and a long term strategy from the funding
- Partners in industry
- Academic support in NASA/MPE/Berkeley

Since 2009 European Space Agency

- Special Measures for Ireland, 2010
- Hardware project with Lorraine Hanlon
- Building detector module
- SensL: Irish industry
- Out of 'comfort zone'
- 2.5 years funding





Since 2009 European Space Agency

- Special Measures for Ireland, 2012
- Lorraine Hanlon & Ken Stanton (Engineering)
- Glass ceramic scintillators
- Further Out of 'comfort zone'
- 2 years funding, extending to 3.





Others

- Fermi GI
- UCD Seed fund
- ESA Prodex Excellent reviews but changed criteria
- ESO proposal not funding, telescope time

Spin-out Company



- co-Founder & CTO, Lorraine Hanlon (CEO)
- Founded 09/2014, first contract 02/2015
- ESA contract: big data in astronomy
- Experience with ESA was vital

Under Review



- o co:PI with Lorraine Hanlon
- Made the cut
- TBD

Students

- Encourage to go for IRC
- DL: IRC EPS
- Travel grants
- GO funding
- Summer Schools

Failure

- Failure is part of the process
- Take feedback seriously (but not personally)
- Use it to improve future grants
- Resilience
- Perseverance