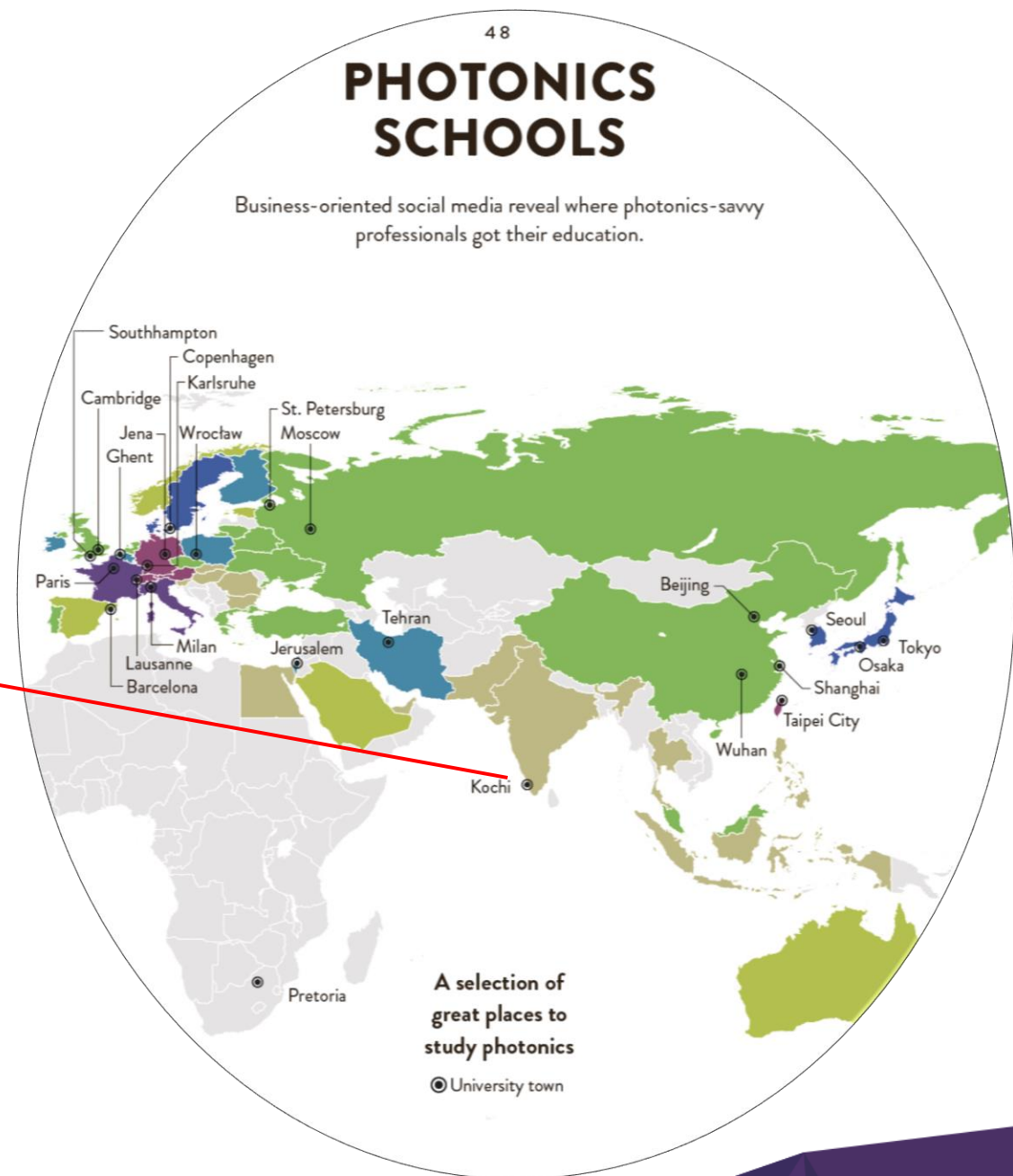


Jayakrishnan Chandrappan
Head of Advanced packaging



Education

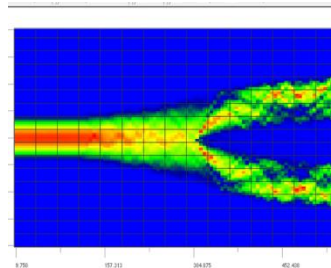
- Master of Science(MSc) – **Physics**
- Master of Technology(MTech)- **Photonics**



Scientist



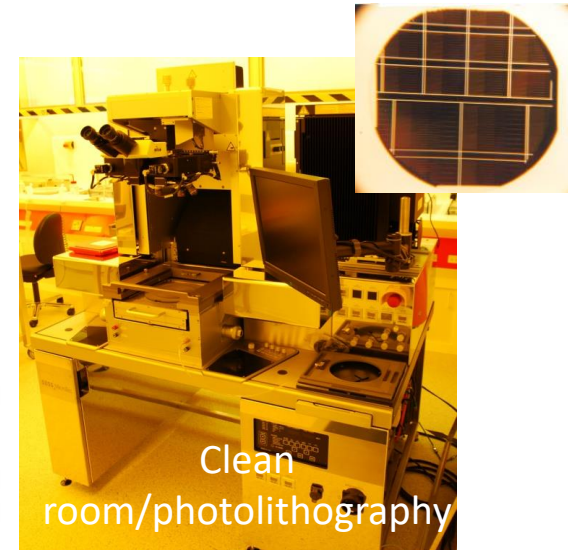
Society for Applied
Microwave Electronics
Engineering and Research



Optical simulations



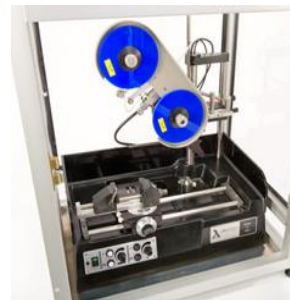
Thin film depositions



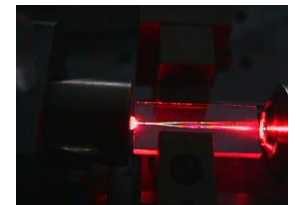
Clean
room/photolithography



R&D lab, IIT Mumbai, India



Wafer dicing
and polishing

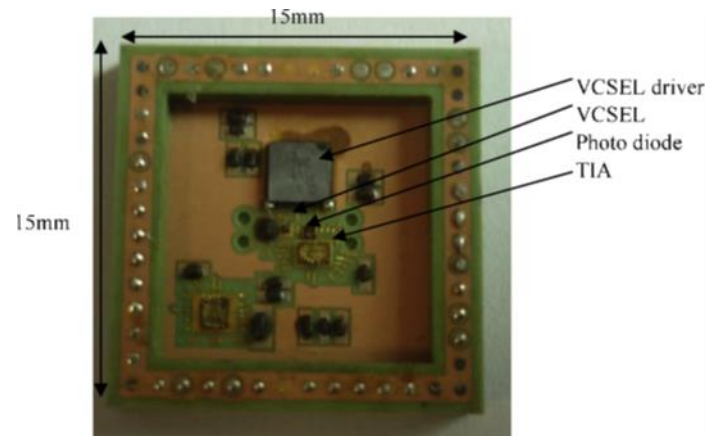


Photonic integrated circuits, RF, and Packaging

Senior Research Engineer



IME, Singapore



Optoelectronic systems, Medical devices, Advanced packaging

Principal Engineer

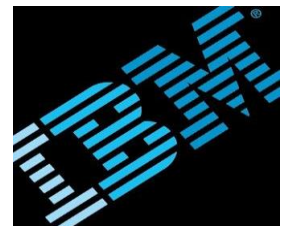


Singapore, US, Dresden



Silicon-CMOS manufacturing

12" Silicon CMOS foundry



After **14 years** of Industry and Industrial research **experience**, I joined

Leeds (SCAPE) as a full time **PhD student** in Dec 2013 !!!



Family in Singapore



On scholarship

PhD Student

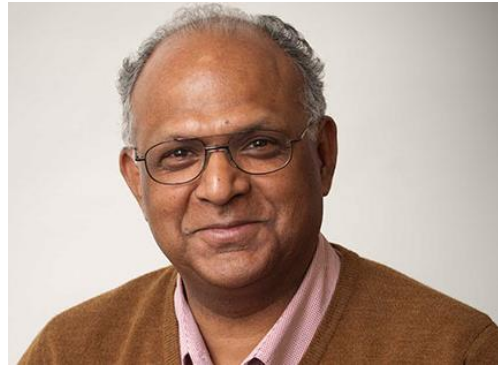
But, I was **determined** to complete my **PhD in 2 years**



First 6 months.....

I worked very long hours.....

Planned the DoEs, prepared 100's of samples.....



Submitted a MSCA experienced researcher (incoming fellow) application

PhD life

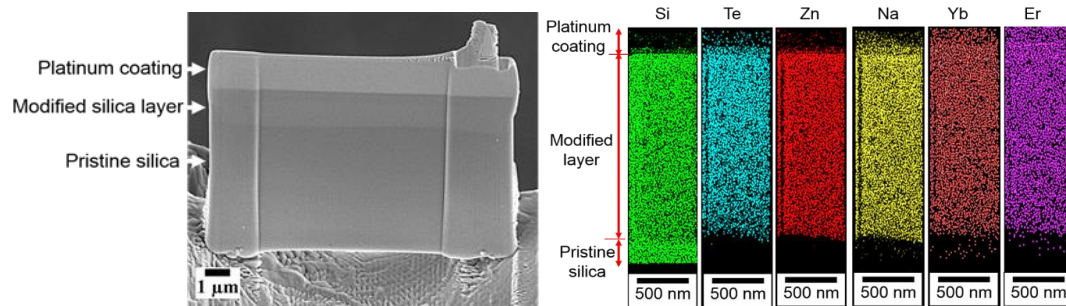
After 6 months..... Five- year-old son joined me in the UK.....

Single parent....

My time was limited **9 am-5 pm** in the university, but the most **productive** period



Investigated novel optical amplifier materials



Patent : WO2017025759A1



3 Journal Publications
Many conference papers



Start-up

In 2 years....on 18 Dec 2015 submitted PhD thesis



Recognitions

Received **£ 5.2 million funding from EPSRC**, for 5 years

**Electronics
Weekly.com**

**Leeds pilots Ultrafast Laser Plasma
Implantation for photonic chips**

A £5.2 million project led by the University of Leeds is aiming to transform data communications with advances in photonic chips.



**RSC Emerging Technology (Materials)
Award-2015**

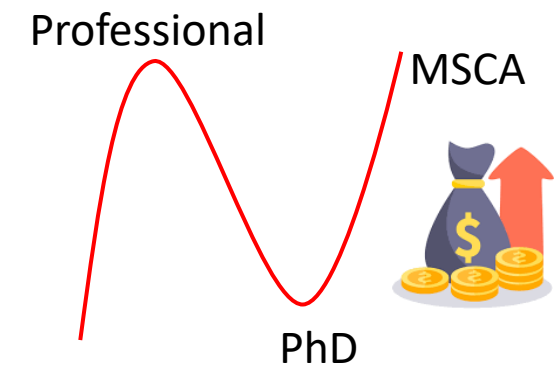
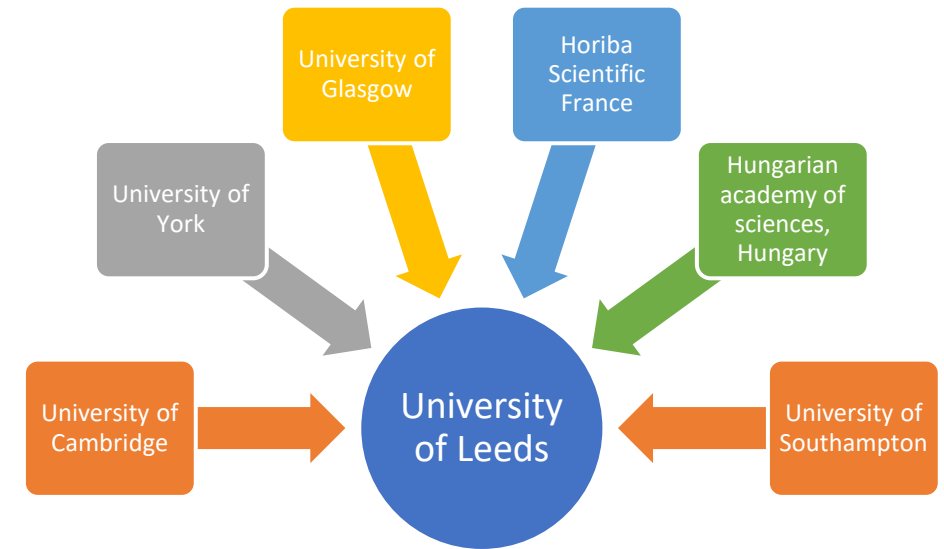
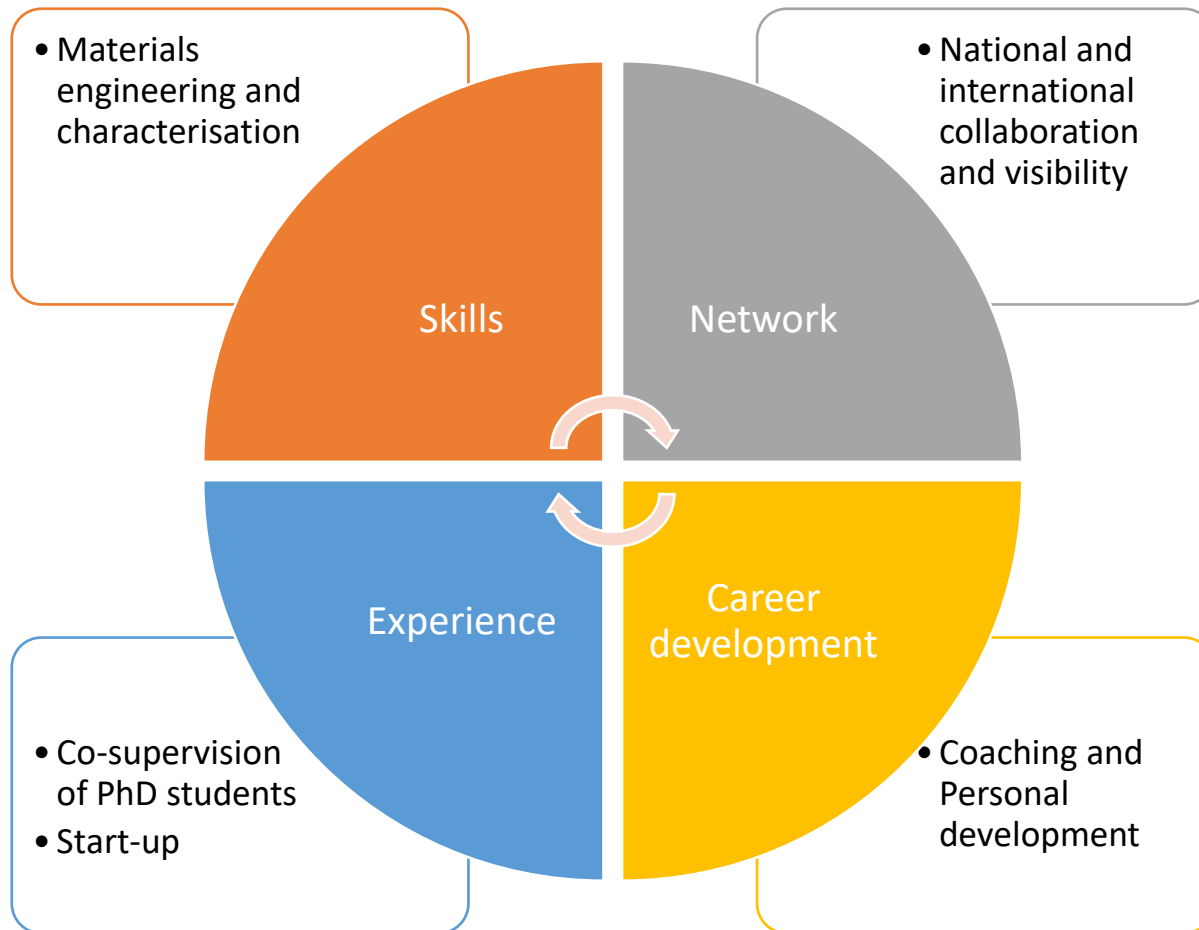
Top 3 PGR of the Year 2015



Marie-Curie Individual Fellowship 2016-2017
Health and Environmental sensors

- Co-supervision of 3 PhD students
- Consultant for Seamatics project

PhD & MSCA



Study at LEEDS--> a complete package, changed my outlook

MSCA 2016-2017

- A unique researcher with international experience
 - Industry, RTO and Academia
- Started looking for job towards the last quarter of the tenure
 - Use social network, job sites and personal contacts

2018



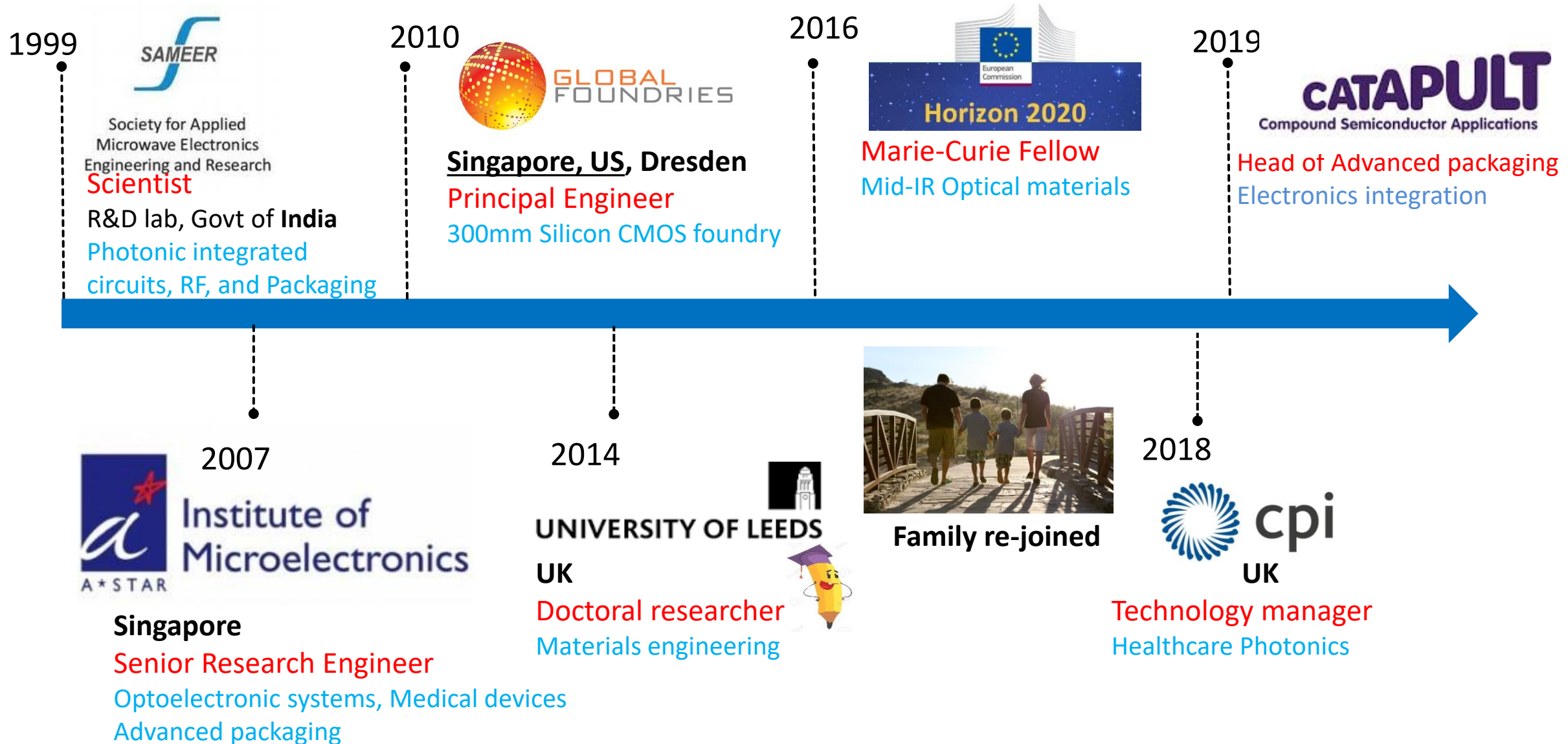
Principal Scientist/
Technology manager
Healthcare Photonics

2019



Head of Advanced packaging
Microelectronics integration

Career Path



Tips

- **Set** clear **goals** and work towards it
- Make yourself essential- **Excel** in your area
- Take up the **opportunities** that come along- **Be confident**
- Expand your **network**

Thank you

