

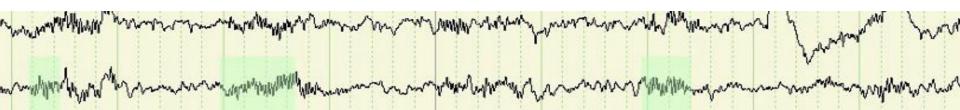


Healthcare Science Postgraduate Scientist Trainees and Supervisors Annual Conference 2018

RESEARCH AND DEVELOPMENT STORIES

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Sleep Research Fellow, The University of Edinburgh Specialist Clinical Physiologist (Sleep), Royal Hospital for Sick Children, Edinburgh NRS Career Research Fellow, Royal Hospital for Sick Children, Edinburgh









- How did I get here?
- What have I learned?
- Questions



EARLY DAYS



Generally curious

- How? Why?

Interest in science

- Dinosaurs
- Volcanoes
- Human body

Career plan

- Palaeontologist
- Scientist
- Fashion designer
- Medical researcher





UNDERGRADUATE



• BSc (Hons) Human Life Sciences

- Anatomy
- Physiology
- Biochemistry
- Psychology
- Neuroscience

• Graduated with 2:2

Not "high achiever"

Career plan

- Biomedical Scientist
- "We're breeding research scientists, not lab technicians..."





EARLY CAREER



Various lab-based jobs

- Summer student, NoSWA (temporary position)
- QC Technician, Rosgen (made redundant)
- QC Technician, Serologicals

Realised lab work was not for me

- Variety
- "People person"







Sleep Technician post, RIE (30hr/wk)

- Science degree
- Physiology-based
- Patient contact
- Day shifts / split shifts

Diagnosis and treatment of sleep disorders

- Obstructive sleep apnoea
- Narcolepsy
- Parasomnias
 - Sleepwalking, night terrors, REM behaviour disorder









On-the-job training

- No formal training pathway
- No professional qualifications / registration in UK
- "Not respiratory enough" for RCCP registration

Strong research tradition

- Clinical research / RCTs
- Pioneers in field, e.g. Prof Sir Neil Douglas
- PhDs / MDs
- Publications in high-quality international journals
- But research and clinical staff very much divided
 - "them and us"









• Keen to be involved in research

- But "not part of the job for NHS staff"
- Clinical workload comes first

Research Assistant post (7.5hr/wk)

- Assisting with technical and admin aspects of studies in department
- Learning basic research techniques
- Fostering research interest

Attended conferences

- British Sleep Society
- European Respiratory Society, Glasgow





Joined British Sleep Society

- Attended conferences
- Find own funding

Invited to teach

- Lectures
- Workshops

Networking

- Conference dinners / drinks
- Informal mentoring
- Encouraged to get more involved in Society / stand for election
- Chance meeting led to next job...



Editors's Message



Firstly, huge thanks to Rc time as editor. I hope to cor entertaining periodical, refle To this end, please get in better, write an article! This

opinions, enquiries and feedback; longer a



MOVING ON



Technical Manager, The Edinburgh Sleep Centre

- Private sleep clinic
- Commercial research
- Mentoring
- Gaining research skills

• Unexpected career change...





MOVING ON



• Time out for maternity leave

- Returned to work part-time
- But covering full-time post in less hours!

• No sleep jobs advertised anywhere!

- Contacted colleague at RIE
- Research Assistant, University of Edinburgh (21hr/wk)
 - Technical / admin support for study of OSA in adults with Down syndrome
 - CSO funded
 - Diagnostics / treatment







Disaster! Study lead pulls out...

- Funding in place but no one to lead
- Redundancy?
- Invited to lead study
 - Skills, experience

• Grant states researcher will undertake higher degree

- Problem for funding?
- "It's ok, you can just do a PhD..."





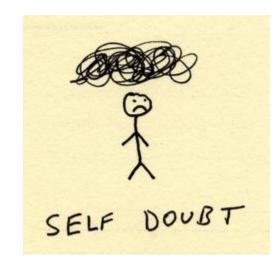


PhD by Research, University of Edinburgh

- Fully funded
- Salary
- Entirely research based

• But...

- I'm not a "high achiever"
- I'm not "academic enough"
- Mid-30s
- 1 year old child
- Not PhD material



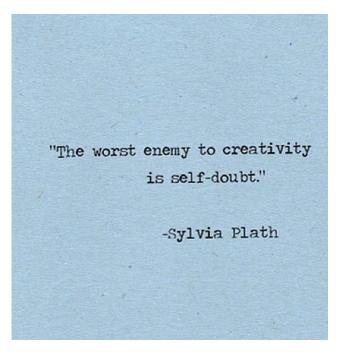




Encouraged by senior researchers in department

- Experienced in sleep
- Practical / technical
- Organisational skills
- Driven, focussed...

Commenced PhD...!







Skills gained through PhD

- Patients with intellectual disability
- Research skills
- Independent working
- People management / teamworking
- Time management
 - Job, study, travel, family...
- Data management
- Statistics
- Lecturing / presentation skills
- Confidence in myself and my skills / experience ...









the ref ap

csandra Piechuta (Warsaw, Poland) for abstract "OSA complication score as novel rence to assess systemic inflammation in sleep oea"_____



sanna SS Ng (Hong Kong, Hong Kong) fo e abstract "A randomized controlled stud examine the effect of lifestyle modification ogram in obstructive sleep apnea"

Presented work at international conference

- Posters
- Oral presentations
- European Respiratory Society
 Travel Grant
 - Top 3 abstracts in sleep

World Sleep Federation Travel Grant

- Top abstracts submitted



MOVING ON – AGAIN...!



• Disaster!

- Funding runs out...
- Still mid-data collection
- Made redundant

Contact network

- "You've probably heard..."
- Post created at RHSC
- 3-month stipend from University



MOVING ON – AGAIN...!



• Specialist Clinical Physiologist (Sleep)

- Part-time whilst finishing PhD
- Kept on full-time after completion of PhD

Full-time clinical post

- Research interest within wider team
- But "not part of the job for NHS staff"
- Some funding to assist with ongoing research project
- Approached manager re. seeking my own research funding
 - Surprisingly supportive!

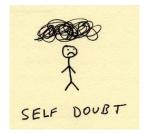


MOVING ON – AGAIN...!



Applied for NRS Career Research Fellowship

- Funding for up to 0.4WTE research time within existing clinical post
- 3 years
- Application form
- Research portfolio proposal
- Mentor



- Interview with panel of 8 clinicians, researchers from NHS and CSO

Awarded funding April 2017

- First physiologist to be awarded funding
- Ring-fenced time to undertake research





- Feel constrained by clinical post
- Research Assistant in Neurodegeneration and Sleep Disorders, University of Edinburgh
 - Full-time post
 - No longer entitled to NRS funding
 - Encouraged to speak to CSO by new line manager
- CSO agreed to continue funding provided 2 clinical sessions per week retained
 - "you don't ask, you don't get…"







- 3 days/wk Sleep Research Fellow, University of Edinburgh
 - Centre for Clinical Brain Sciences
 - Small vessel disease in adults with OSA (international collaboration)
- 1 day/wk Specialist Clinical Physiologist, NHS Lothian
 - RHSC
 - Clinical sleep diagnostics

• 1 day/wk NRS Career Research Fellow, NHS Lothian

- Parental group sleep education for pre-school children with Down syndrome
- Various other sleep-related projects



WHY DO RESEARCH?



- Part of our job as Healthcare Scientists!
- Patient benefit
- Personal / professional curiosity
- Pursuit of knowledge / contribution to field
- Professional development / career progression
- Personal development / confidence in self



WHAT HAVE I LEARNED?



Have a plan

- But be prepared to deviate
- Not everyone's path is the same
- Flexibility is key
- Don't wait to be asked make your own opportunities
 - But do grab opportunities when they arise
- Stay informed
 - CPD: professional bodies, conferences, publications



WHAT HAVE I LEARNED?



• Network, network, network

- "It's not what you know, but who you know"

Find a mentor

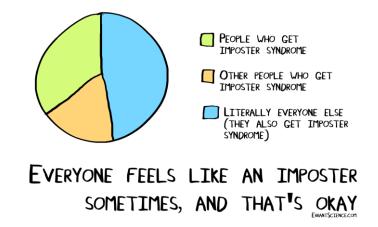
- Formal, informal

Have confidence in yourself

- Avoid impostor syndrome
- Big yourself up!
- Social media, blogging

Just do it!

- You won't know if you don't try...
- Don't be put off by negativity of others









• Be prepared to work hard

– but grab opportunities when they present themselves

• Use the resources at your disposal

- Training
- Networking
- Mentorship
- If there isn't a research culture in your department / hospital / field – cultivate one
- Stay curious!
 - Keep questioning







NHS Research Scotland (NRS)

- www.cso.scot.nhs.uk/nrs/

CHAIN

- www.chain-network.org.uk

Vitae

- www.vitae.ac.uk

Wellcome Trust Clinical Research Facility, Edinburgh

- www.wtcrf.ed.ac.uk/Courses

Any questions?

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