Robert Treharne
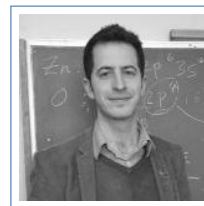
Curriculum Vitae

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✉ rob.treharne@gmail.com

Education

2007 - 2011	**PhD in Physics**, *University of Durham*.
2003 - 2007	**Masters degree in Physics**, *University of Warwick*, *1st Class*.

Professional Experience

Jun 2014 - to date	**Academic Manager for CDT-PV**, *University of Liverpool*. Coordinator for Centre for Doctoral Training in New and Sustainable Photovoltaics - a multi-institutional project that provides specialised training to PhD students. Responsible for administering a £5m EPSRC budget, delivery of training curriculum, event planning/coordination, overseeing recruitment, industry liaisons.
Sept 2011 - Jun 2014	**Postdoctoral Research Associate**, *University of Liverpool*. Investigation of novel materials for thin-film Photovoltaics. Project involved development of novel combinatorial fabrication and characterisation techniques.

Key Skills

- **Project management** - high initiative, low bureaucracy
- **Financial management** - capable of designing and managing large budgets
- **Reporting** - monthly/annual reviews, monitoring outputs, impact case studies
- **Event Coordination** - experience organising conferences, workshops & showcases
- **Branding and Marketing** - highly skilled at graphic design
- **Web Development** - bespoke web applications for scientific projects
- **Promotion** - Posters, brochures, social media/e-mail campaigns, merchandise
- **Lecturing** (PG level) - Programming (Python), Fundamentals of Photovoltaics
- **Writing** - 20+ academic publications, blog articles, technical reporting, reviews
- **Logistics/Procurement** - a highly skilled and innovative facilitator
- **Communication** - articulate, concise, high-level, highly empathetic

Computer Skills

Languages	Python, PHP, Fortran, Bash
Web	Django, Django CMS, Flask, HTML, XML, JSON, Javascript, JQuery D3.js, CSS, Bootstrap 3.0, LAMP
IDE	PyCharm, Atom, VIM
Database	PostgreSQL, MySQL

OS	Windows, Linux (Ubuntu, Mint, Debian, Arch), Mac
Microsoft	Highly competent at using Office suite
Design	Inkscape, GIMP, Adobe Illustrator, Blender
Other	MATLAB, LabView, Origin, Jupyter Notebook, Latex, Slack, Asana

Key Accomplishments

PVSAT 2016.
Coordinator for national photovoltaics conference. Programme chair. Branding and website (pvsat.org.uk)

Solar Challenge, *University of Liverpool*.
Instigator of cross faculty student led project to build a solar powered aircraft. Completed design will compete at national level in 2017

HiPy - **Hive Python**.
Leader of cross faculty initiative to provide support for scientists and engineers learning python. Project includes engagement with local schools and design companies

Awards

Nov 2015	**IChemE**, GLOBAL ENERGY AWARD.
	'Safer and cheaper solar cell processing'

Interests

- Graphic/Web Design (see solidstatedesign.co.uk)
- Electronics/Arduino/Raspberry Pi
- Educational Outreach - STEM Ambassador
- Scout Leader
- Hard science fiction and popular science

*List of academic publications available on request