

ROSS WARREN

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EDUCATION

DPhil (PhD) in Physics University of Oxford, UK	<i>2020</i>
Masters (MRes) in Plastic Electronics - Distinction Imperial College London, UK	<i>2016</i>
MSci (Hons) in Physics - First Class Imperial College London, UK	<i>2013</i>

RESEARCH EXPERIENCE AND SKILLS

Postdoctoral Research Associate in Physics *March 2020 - present*
Jenny Nelson Group, Imperial College London, UK

- Python: Kinetic Monte Carlo and tight-binding simulations using numpy, scipy and cython.
- Writing: journal articles of successful results obtained during my PhD.

Visiting Researcher in Chemical Engineering *Oct. 2019 - Jan 2020*
Hitosugi Group, Tokyo Institute of Technology, Japan

Graduate Researcher in Physics *2016 - 2020*
Advanced Functional Materials and Devices Lab, University of Oxford, UK

- Expertise: in molecular doping, organic solar cells, organic transistors and electrical measurements.
- Python: modelling, data analysis, data visualisation and software for experimentation.
- Presentations: to research groups and at large international conferences.
- Teaching: tutor in analogue electronics. Senior demonstrator for the undergraduate electronics lab.
- Mentoring: undergraduate project developing software for performing lab experiments remotely.

Undergraduate Research Assistant in Materials *2011 - 2012*
Ecole Polytechnique Fédérale de Lausanne, Switzerland

EXPERIENCE IN INDUSTRY

Marine Field Geophysicist *2013 - 2015*
Schlumberger, Canada and United States

- Data analysis: of large, noisy datasets. Signal processing techniques to improve signal-to-noise ratio.
- Bash: scripting to automate data analysis routines. My code got rolled out across several vessels.
- Team work: within a diverse geophysics group, presenting to and communicating with clients.

AWARDS

International Exchange Scholarship	<i>2019</i>
Plastic Electronics Symposium Poster Award	<i>2018</i>
Hackathon Win - African Healthcare, Google Campus London	<i>2017</i>

SELECTED PUBLICATIONS

Warren R. *et al.* Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors Nature Communications **10**, 5538 (2019)

Warren R. *et al.* Tuning the ambipolar behaviour of organic field effect transistors via band engineering. AIP Advances **9**, 035202 (2019)