

Miss Ying LIU

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Profile

Motivated, self-driven PhD student. Works with experimental data, high performance computer modelling and statistics - implemented in multiple programming languages. Strong communication, team working and management skills gained from three years industry experience in a fast-paced, team-driven environment.

Skill Summary

- *IT skills:* Python, Shell, Matlab, Fortran90, LaTeX.
- *Scientific skills:* Data collection/analysis, modelling, statistics.
- *Languages:* Mandarin (native), English (proficient)

Education

2016-present: *Ph.D*, Queen Mary University of London.

- Combine experimental research with computer modelling (Fortran) to study the atomic structure of Quantum Dots.
- Statistical data analysis of experimental 'big data' using Python and Matlab.
- Experience in high performance computing (Apocrita cluster), scheduling jobs, unix programming.

2011-2012: *MSc*, Materials Science and Technology, Loughborough University.

Dissertation: High-temp Oxidation behaviour of high Cr containing Ni-based alloys.

2007-2011: *BEng*, Materials Science and Engineering, Nanjing University of Aeronautics and Astronautics.

Dissertation: Annealing and Sintering of 3 mol% yttria-stabilized zirconia (3YSZ).

Work Experience

Office Manager (12/2013 - 07/2016) **IRIS technology (Yangzhou) Ltd.**

- Communicated with clients and negotiated contracts for production and international export.
- Hosted meetings, managed a small team (3 people).
- Ensure professional conduct, communication and punctuality in the office.
- Managed recruitment process, interviewed potential employees and aided in company decision making.

EM technician (06/2013-12/2013) **Techcomp Instruments Ltd.**

- Trained customers to use scientific software and hardware (Electron Microscopy, EM, techniques). Communicated EM theory to clients in a clear, accessible way.
- Presented figures from samples studied using EM.

Skills and Achievements

- **IT skills:** Word, Excel, Powerpoint, Windows, MacOS, Linux.
- **Programming:** Python, Fortran, Matlab, Unix Shell, LaTeX, image processing.
- **Languages:** English (proficient), Chinese (Native).
- Trained in emergency first aid (2012)
- International English Language Testing System (IELTS) Results: 7 (2011)
- Silver Prize of National Engineering Training Contest for College Students (2009)

Referees

<p>Dr. Andrei Sapelkin Senior Lecturer School of Physics and Astronomy Queen Mary University of London E1 4NS Tel: 0044 (0) 20 7882 3414 Email: a.sapelkin@qmul.ac.uk</p>	<p>Prof. Martin Dove Professor School of Physics and Astronomy Queen Mary University of London E1 4NS Tel: 0044 (0) 20 78823426 Email: martin.dove@qmul.ac.uk</p>
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