

AMANDA JAYNE ZEBEDEE - Physics Graduate

BSc MSc PGCert

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EDUCATION

Brunel University	Postgraduate Certificate in Secondary Education (Physics with Mathematics) with recommendation for QTS, August 2014.
University College London	MSc in Biomedical Engineering and Medical Imaging, 2012.
Basil Paterson College, Edinburgh	CELTA, Certificate in Teaching English to Speakers of other Languages. April 1998.
Queen Mary College, University of London	BSc in Astrophysics 2.1 (Hons), 1994.
Abingdon College	A-levels in Mathematics, Physics and Chemistry

OTHER PERTINENT CERTIFICATES

Udemy	Latex For Everyone and Everything , Oct 2018
Mathworks Training Services	Matlab Onramp, August 2018

EMPLOYMENT

Marie Curie Fellow, March 2019 - present

PhD Studentship undertaken at the Institute of Cancer Research as part of the Horizon 2020 programme of the European Union. Area of research: acoustic cavitation, specifically in characterization of cavitation thresholds in tissue and tissue mimicking materials.

Contracted Physics Expert on Study.com, October 2018 – January 2019

Answering questions posed by college level students.

English Language Teacher. Oct 2016 – May 2018.

Eva Vassalou, Foreign Language School Vassalou – Tsakalaki, Albert Schweizer 18, Yiofiro, 71303, Heraklion. Tel: 2810250963

I taught B1 to C2 level English for a range of examinations including IELTS, Cambridge, and Michigan. Using the knowledge and experience I have gained since my previous sojourn on Crete, further enhanced my pedagogical skills. In addition, I have assisted in preparing students for interschool debates, proof reading presentations, projects and correspondence with organisations working with the school.

English Language Teacher. March 2015 – December 2017.

Vangelis Langouvardos, ABC Foreign language school, Agios Ioannis Chostos 12, Heraklion. Tel: 2810 370338. (As above)

English Language Teacher. March 2015 – August 2016.

Celia Kopaka, Kopaka Foreign Language School, Kamarioti 34, 71414 Gazi. Tel: 281082277. (As above)

Physics Teacher, Bishop Ramsey School, Ruislip, Middlesex, HA4 8EE. Sep 2014 – 31st Oct 2014. Tel: 01895 639227

I began my NQT post but found that teaching in secondary schools was not what I desired career wise. Therefore, I chose to take some time out on Crete to reevaluate my career options and work-life balance. In my brief time at Bishop Ramsey School, I taught KS3 and KS4 Science as well as KS5 Physics. I attended CPD sessions for NQTs, assisted in a Year 8 form class – taking the register, signing Link books, relaying important school news, and accompanying the class to assemblies.

Maternity Services Medical Equipment Technician(Band 6), Royal Free Hospital, London NW3 2QG. July 2007 – April 2012.

I performed maintenance and repairs on a variety of medical equipment and was responsible for procurement of medical devices for Maternity Services. As such, I researched available devices, advised Maternity on the best options and wrote business proposals for new equipment. I also trained staff to use medical equipment. On secondment to the radiation protection team for 3 months, each morning I dealt with deliveries of radioactive isotopes, distribution and collection of radiation monitoring devices, calibration of radiation measuring instruments and disposal of radioactive waste.

Medical Equipment Technician (Bank Staff)(Band 5), Royal Free Hospital, London NW3 2QG. April 2006 – June 2007.

I performed maintenance and repairs on a variety of medical equipment throughout the hospital, performed maintenance checks in the CPAP clinic at RNTNE Hospital. I also trained staff to use medical equipment.

Leicester Square School of English, London Sep 2004 – June 2005

Taught English to adults from across the world. Covered beginners to advanced learners. Included preparing students for the Academic IELTS exam.

Mother's carer following serious illness, Sep 2003 – August 2004

English Language Teacher at two foreign language schools, July 1998 –August 2003:

Hara Saloustrou, Dodonis 18, Pateles, Heraklion. Email harasalou@yahoo.gr. Telephone: 2810 225637. And City Languages (formerly Chris school) Agia Marina, Gazi. Telephone: 2810 261316.

Taught English to children from 9 – 18 years of age up to Proficiency level.

Radar Systems Engineer, GEC-Marconi Avionics, Edinburgh, EH5 2XS, Jan 1996 – Dec 1997.

Developing computer simulations for airborne radar, specifically for the Eurofighter project, to predict the performance of the tracking system, using mainly Fortran and Pascal.

Personal Statement

Following my career break, I wished to return to Medical Physics within academia with a view to not only enhancing and developing my current skill set but to establishing myself within a cutting-edge field of research, where I could truly make a difference.

Nothing better could have come my way as the opportunity to do a PhD at the world-renowned Institute of Cancer Research as part of the Marie Curie Innovative Training Networks' UCOM project (Ultrasound Cavitation in sOft Materials).

My PhD focuses on characterization of nucleation of tissue mimicking materials, produced as part of the UCOM project; derivation of nucleation models with the aim of predicting cavitation thresholds in TMM's modelled on human tissue. Subsequent research will focus on derivation of material damage/failure models to be used by colleagues in the UCOM Fellowship.

Thanks to my life experience, I bring maturity, passion, determination to succeed and a broad spectrum of knowledge. I have always thrived on new challenges and assimilating and utilising knowledge gained. My ultimate goal is to provide myself with the tools to pursue a career within the exciting field of Acoustic Cavitation and its diverse applications.