

## Curriculum Vitae

Dr Nicholas Paul Chatterton  
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### Qualifications with Awarding Body and Date

- 1996                      **Selwyn College, Cambridge University.** MA. Natural Sciences (Class 2 Division 1). Awarded July 1996.
- 1999                      **Imperial College, London.** MSc in Chemical Research (distinction). Awarded September 1999.
- 2003                      **King's College, London.** PhD. "Oxidative Addition at transition metal centres: Structural, chemical and computational studies of  $M(\eta^2\text{-HX})$  intermediates". Supervised by Professor Sean McGrady. Awarded October 2003.
- 2008                      **London Metropolitan University.** PG. Cert. in Higher Education Teaching and Learning (Merit). Awarded November 2008.
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### Membership of Professional Bodies and Learned Societies

- 2008 – present              Member of the Royal Society of Chemistry.
- 2014 - present              Fellow of the Higher Education Academy.
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### Career Details – Present employment

- 6/2015 – present              Central Academic Staff and Lecturer, The Open University
- 10/2010 - present              Associate Lecturer, Birkbeck College, University of London
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### Career Details – Previous employment

- 6/2007 – 5/2015              Senior Lecturer and Course Leader in Pharmaceutical Sciences, London Metropolitan University. Member of Molecular Systems for Health Research Group.
- 6/2014-12/2014              Visiting Scientist, UCL School of Pharmacy
- 2006-2007                      Teacher of school chemistry (year 9 to year 13). Mill Hill School, London.
- 2005-2006                      Teaching Fellow, Department of Chemistry, University of Sheffield.

2004-2005	Post-doctoral research fellow in the group of Dr Marinella Mazzanti, Commissariat à l'Energie Atomique, Grenoble, France.
2003-2004	Teacher of Chemistry (A level/GCSE) and Head of Middle School. Ashbourne Independent School, London
1996-1998	Technical Consultant, Cambio Ltd, Cambridge.

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## Teaching and Learning in Higher Education

### Teaching Experience

2000-2002	<b>King's College London</b> undergraduate tutor in year 1 physical and inorganic chemistry
2004-2005	<b>Sheffield University:</b> Coordinating and running all teaching sessions in practical organic chemistry at levels 1 and 2. Lecturer in <i>Main Group</i> chemistry (8 lectures) at level 2. Personal tutor to 8 students each year. Undergraduate tutorials in general chemistry (year 1) and physical and inorganic chemistry (year 2).
2007 – 2015	<b>London Metropolitan University: old modules -</b> module convenor and lecturer on <i>Chemistry 1</i> and <i>Chemistry 2</i> for foundation year in science (24 lectures, ~ 300 students). Lecturer in all aspects of <i>General Chemistry</i> (20 lectures, ~ 220 students). Lecturer on <i>Metals in Pharmaceutical Science</i> (6 lectures, ~ 50 students). Module convenor and lecturer on <i>Bioinorganic and Organometallic Chemistry</i> (8 lectures, ~ 15 students). Tutor on <i>Organic Chemistry 1</i> and <i>Bioanalytical Techniques 1 and 2</i> .  <b>New modules (Sept 2012 onwards)</b> – module convenor and lecturer for <i>Chemistry</i> at foundation level (~ 200 students, 16 lectures) Mathematics lectures for <i>Scientific Studies</i> at foundation level (~ 200 Students, 4 lectures). Lecturer in all aspects of <i>Concepts of Chemistry</i> (~ 100 students, 16 lectures) and <i>Chemistry and Biochemistry</i> (~200 students, 6 lectures) at year 1, Lecturer and tutor for <i>Inorganic Chemistry</i> (~50 students, 6 lectures), <i>Drug Delivery and Actions</i> (~50 students, 4 lectures) and <i>Bioanalytical Science</i> at year 2 (~150 students, 4 lectures). Module convenor and Lecturer for <i>Advanced Inorganic and Materials Chemistry</i> (~40 students, 16 lectures). Undergraduate and MSc research projects on topics including synthesis of lanthanide complexes for sensor applications, layered double hydroxide salts for sensor applications, protein uptake of titanium containing potential anti-cancer drugs, drug

delivery systems based on biodegradable microspheres or nanospheres and electrospun nanofibers.

- 2010 – present **Birkbeck College.** Lecturer on Chemistry evening course which is half of the yearlong (year 1 equivalent, Level 4 qualification) “Certificate for Subjects Allied to Medicine” (~25 students annually).
- 2015 – present **The Open University.** Production of chemistry content for a new 1<sup>st</sup> year module (S111) and a new practical residential school (SS002). Presentation and production of chemistry content on 3<sup>rd</sup> year module (S315) (NMR, drug-drug interactions, molecular orbital theory).  
Design of remote access experiments utilizing flow chemistry techniques.  
Strand leader for third year practical module (SXM390).

### **Curriculum Design**

Design and implementation of two year-long 30 credit modules, one at level 3 (“Chemistry”) and one at level 6 (“Advanced Inorganic and Materials Chemistry”); the latter was reviewed as part of the recent (2013) successful accreditation of the LMU Chemistry degree.

Design of a master’s level short course (“Research Skills for Pharmaceutical Sciences”); first implementation summer 2015.

### **Teaching innovations and other teaching related responsibilities**

Member of departmental committee for Teaching and Learning; organisation of staff developments sessions on the use of e-learning and technology to enhance student learning (2009-2011).

School representative on Faculty Undergraduate Postgraduate taught course committee (2014-15).

At London Met my teaching innovations included instigation and use of text-messaging to enhance student-learning in large group sessions and utilizing student learning spaces for student drop-in sessions ([twitter.com/chemdrop](https://twitter.com/chemdrop)), and use of pre-lecture learning materials (video clips + formative assessment) to enhance RPA at year 0 (level 3).

Currently involved in a funded project to develop the use of online clinics and structured content to improve student RPA in level 2 chemistry modules.

Outreach activities have included general lectures for local school children entitled “Fantastic Fuels and Real Rockets” and in organising events for AimHigher and National Science Week.

## Teaching Awards

Voted by students in May 2012 as the “Most Supportive Lecturer” at London Metropolitan University Student-Led Teaching Awards and nominated for all other awards (Best Lecturer, Best Feedback, Most Innovative, Most Inspiring – one of 20 lecturers university wide).

Shortlisted for “Overall Best Lecturer” prize in the same awards in May 2013 (<http://www.londonmetsu.org.uk/slta/>).

Shortlisted for “Overall Best Lecturer” in Faculty of Life Sciences and Computing in April 2015.

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## Research and Knowledge Transfer

### Grants and Contracts

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| 2005 | Jointly with Dr Simon Jones, for £100,000 (NESTA/Chemistry for our Future) for the first dedicated schools laboratory housed in university in the UK at Sheffield. |
| 2009 | Emerald Fund award from the London Development Agency of £10,000 to support patent application and commercialisation activities of a molecular sensor.             |
| 2014 | Royal Society of Chemistry Undergraduate Bursary (£2000) in summer 2014 to sponsor student work on an ultra-sensitive ammonia detector.                            |
| 2015 | eSTEE M funding (OU internal) for the development of online chemistry clinics (£2500) for the year 1 to 2 transition.  |
| 2016 | Synergy project funding (OU internal) for purchase of electrospinning and electrospraying equipment (£4000).   |

### Doctoral Supervision

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| 2008 – 2012 | Gaoyun Chen, “Lanthanide complexes of phthalimide and phthalamate containing ligands: synthesis, photophysical properties and their potential applications,” (co-supervisor; self-funded student). PhD awarded October 2012. |
| 2011 – 2015 | Eranka Illangakoon, “Advanced drug delivery systems prepared by electrospinning,” (Director of Studies; London Metropolitan University Vice Chancellor’s Scholarship). PhD awarded October 2015.                             |

- 2011 – 2015 Yacine Kassiss, “Low-dimensional matrices for the delivery of pharmaceutically active agents,” (2<sup>nd</sup> supervisor; self-funded student). PhD awarded November 2015.
- 2015- Erum Noureen working on passive cellular uptake of nano-materials (Director of Studies; self-funded student).

### **PhD viva examinations**

- 2015 Ravi Velaga (London Metropolitan University; supervised by Dr Ken White).
- 2016 Heli Brahmhatt (The Open University; supervised by Dr Nick Turner)

### **Post-Doctoral Supervision**

- 2013 Gaoyun Chen worked on developing electrospun materials loaded with luminescent terbium complexes with potential as ultra-sensitive ammonia detectors. (Supervisor; internal funding from London Metropolitan HEIF allocation).

### **Knowledge Transfer**

- 2012 Due diligence work on for potential investors in Biomimetic Healthcare Industries

### **Professional Practice**

- 2006 Content and context author for new Edexcel A-level specification
- 2008- Referee for the journals Organic and Biomolecular Chemistry, Colloids and Surfaces B, Chemical Communications, Materials Chemistry and Physics, Journal of Nanostructure in Chemistry, International Journal of Pharmaceutics, RSC Advances, European Journal of Pharmaceutical Science, Nanomaterials.
- 2008-2015 Departmental representative for Royal Society of Chemistry
- 2009 Scientific consultant on book (“Chemistry: Getting a Big Reaction”; Pan Macmillian – part of the 2 million selling “Basher” series) aimed at Keystage 3 and GCSE school children published late 2009.

- 2009-2011 Departmental representative for HE Academy Physical Sciences Centre and Royal Society of Chemistry
- 2012- Scientific consultant for WJEC exam board on new A level chemistry syllabus
- 2014- Associate Editor for journal International Journal of Theoretical and Applied Nanotechnology
- 2014-2015 Member of scientific committee for 6<sup>th</sup> International Conference on Nanotechnology: Fundamentals and Applications (Barcelona, 2015).
- 2015- Associate Editor for RSC Advances (dealing with submissions in the area of synthesis of nanomaterials; stipendiary role).