

Alexander Papiez

Research Chemist

Contact

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Key Skills

- 7 Years laboratory experience
- Tutoring experience
- Competent user of \LaTeX typesetting software
- Knowledge of the Python programming language
- Experienced user of Microsoft Office packages
- Able to work well independantly and in a group
- Excellent spelling and grammar
- Ability to work to a deadline/ under pressure

Profile

My attention and eye for detail have allowed me to be successful in my research career. As a self sufficient individual I have shown initiative in solving problems which have arisen promptly. In early 2016 I was invited to the International Congress on Marine Corrosion and Fouling in Toulon, France; where I presented aspects of my work to attendees. During the course of my studies I have consistently developed my ability to communicate ideas in a clear and concise manner while maintaining a engaging connection with the audience. I believe this is key to building rapports and successful working relationships.

Employment

- 09/2013-05/2016 **Lab Demonstrator** Northumbria University
Worked to support the safe operation of lab-practical classes for under-graduate students. My knowledge in the field and previous experience with the course content meant I was able to act as an effective mentor and role model to students, helping to support the learning experience provided by the lead academic.
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- 02/2015 - 05/2015 **GCE A-Level Tutor (Chemistry)** Newcastle Upon Tyne
I provided one-to-one tutoring support to a student preparing to sit their chemistry A-Level exams. I developed a lesson plan for each session covering a specific topic to ensure that student was given the best opportunity to understand the content and succeed in the exams.
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- 06/2013 - 09/2013 **Production operative / Packer** Quorn Foods, Stokesley
I worked as part of a team on the Quorn production line. Duties included packing and palletizing the product, quality control, cleaning and some work in clean production areas.
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Education

- 09/2013-Present **PhD in Physical Polymer Chemistry** Northumbria University
Supervisors: Dr. Justin Perry and Dr. Leslie Dix
Funded by: AkzoNobel/International Paint
Thesis title: Investigating the Rate of Release of Ions Across Polymer Phases
Summary: In order to develop competitive products in a sustainable manner, anti-fouling paint manufacturers must consider the kinetics of biocide release. By studying the diffusion rate of biocides in relation to material properties, insights useful for the rational design of anti-fouling technologies may be found.
Publications: **Papiez**, A.P. Perry, J.J.B Ferguson, J. Wright, A.C.
Diffusion of Biocides in Polymeric Matrices: A Tool for Rational Coating Design, Poster presented at the International Congress on Marine Corrosion and Fouling, Toulon France, 2016;
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Papiez, A.P. Perry, J.J.B. Downs, R.A. *Design and Implementation of a 3D Printed Microwave Flow Cell*, Poster presented at the R.S.C. Organic division meeting, Bradford, U.K. 2015
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09/2009 - 06/2013 **MChem Applied Chemistry**

Northumbria University

Classification: 1st with honours

Awards: Best Post-graduate final-year project, 2013

4th Year Project: Synthesis and Characterization of Amino Functionalized Methacrylate Polymers

3rd Year Project: Predicting Mass Spectra Using Density

Functional Theory Calculations

09/2007-07/2009 **GCE A-Levels**

Stokesley Sixth Form College

A2: Physics, Chemistry, Mathematics

AS: Physics, Chemistry, Mathematics, French

09/2002-07/2007 **GCSEs**

Stokesley Comprehensive School

10 at grade A*-C including Maths, English and Science

Interests

I am a capable programmer and enjoy the creative thinking involved in solving technical problems; in conjunction with DIY electronics, I enjoy building software and hardware to tackle real world problems.

I am an avid reader - my favourite genre is historical non-fiction as I enjoy learning about the past and the lessons it holds for today's world. This spurs my interest in politics and current affairs, which I enjoy debating in great detail.

I love the operas of Gilbert and Sullivan, my favourites being The Mikado and Iolanthe. I am fascinated by the intricate combination of language and musical theatre which they employ to make clever satirical comments.

References

Dr. Justin Perry,
Enterprise Fellow
Health and Life Sciences
Northumbria University,
Ellison Building,
Ellison Place,
Newcastle Upon Tyne,
NE1 8ST,
Phone: 0191 227 3554,
Email: justin.perry@northumbria.ac.uk

Dr. Leslie Dix,
Senior Lecturer,
Health and Life Sciences
Northumbria University,
Ellison Building,
Ellison Place,
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NE1 8ST,
Phone: 0191 227 3510,
Email: les.dix@northumbria.ac.uk

I have a full, clean U.K. driving licence and own a car.