

# 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 an 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;  
\*  
**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  
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Ellison Building,  
Ellison Place,  
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NE1 8ST,  
Phone: 0191 227 3554,  
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*Dr. Leslie Dix,*  
**Senior Lecturer,**  
Health and Life Sciences  
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Phone: 0191 227 3510,  
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I have a full, clean U.K. driving licence and own a car.