

# FINLAY MAGUIRE

## ACADEMIC ADDRESS

Natural History Museum  
Cromwell Road  
London  
SW7 5BD  
+44 (0)20 7942 6322  
<http://gna-phylo.nhm.ac.uk>

## HOME ADDRESS

29 Nash House  
Lupus Street  
London  
SW1V 3HQ  
+44 (0)77 6989 5717

## EDUCATION

**Doctor of Philosophy (To be completed)**  
**Natural History Museum**  
**University College London**

October 2011-Present

Joint institution PhD in Molecular Evolution/Bioinformatics between Professor Max Telford at University College London and Dr. Thomas Richards at the Natural History Museum. Project is investigating the deep branching relationships within the Eukaryotes and the metabolic basis of photosynthetic endosymbioses in ciliates via a combination of molecular and bioinformatic techniques.

**Bachelor of Arts (Honours) Biological Sciences**  
**Oxford University**

October 2008-June 2011

Honours schools: Cellular and Developmental Biology and Biology of Plant and Animal Disease

Undergraduate projects:

- The evolution of the folate biosynthesis gene fusions in the eukaryotes (supervised by Dr Thomas Richards).
- Explaining the functional diversity of leucine rich repeats (supervised by Dr Adrian Smith).
- A proposal to investigate the exchange of proteins between *Igniococcus hospitalis* and *Nanoarchaeum equitans* (supervised by: Professor Ian Moore).

## INTERNSHIPS

**Society for General Microbiology Vacation Studentship**

June 2010-August 2010

Summer research project with Dr. Thomas Richards at Exeter University on the evolution of folate biosynthesis gene fusions in the eukaryotes.

**BioMAP Egypt**

July 2008-August 2008

Research assistant on BioMAP GIS project monitoring biodiversity in the Sinai desert in association with the University of Nottingham and the Suez Canal University.

## AWARDS AND GRANTS

**Dukinfield Exhibition in Biological Sciences**

October 2009-July 2011

Awarded for academic excellence (£300).

Somerville College, Oxford

**Society for General Microbiology Vacation Studentship**

June 2010-August 2010

Funded a summer research project with Dr. Thomas Richards at Exeter University on the evolution of folate biosynthesis gene fusions in the eukaryotes (£1890).

University of Exeter

**Society for General Microbiology Undergraduate Student Grant**

5th-7th September 2011

Grant for travel and accommodation to attend and present at the Society for General Microbiology summer conference at the University of York (£170).

University of York

**FEMS Young Scientist Meeting Grant**

5th-20th October 2011

Federation of European Microbiological Societies grant to attend and present at European Molecular Biology Organisation: Comparative Genomics of Eukaryotic Microorganisms (£350).

Sant Feliu de Guixols, Spain

## PUBLICATIONS

### **Complex pattern of gene fusion and fission in the Pterin folate biosynthesis pathway**

Manuscript in preparation.

## CONFERENCES AND WORKSHOPS

### **Molecular Evolution Workshop**

Workshop participant.

22nd July - 1st August 2012

MBL, Woods Hole

MA, USA

### **Natural History Museum Student Conference**

Poster presentation: “Complex pattern of gene fusion and fission in the Pterin folate biosynthesis pathway”.

27th-28th March 2012

Natural History Museum, UK

### **National Association for Research in Science Teaching**

Co-author of poster presentation: “Working on the Public’s Perception and Understanding of Science and Scientists through a Popular, Open-access ‘AskScience’ Website” (*Presented in absentia*).

25th-28th March 2012

Indianapolis, IN, USA

### **Tennessee Maths and Science Education Research Conference**

Co-author of oral presentation: “Online Conversations as a Way of Understanding the Public’s Views of the Nature of Science: Research on Reddit’s AskScience” (*Presented in absentia*).

2nd-3rd February 2012

Murfreesboro, TN, USA

### **Systematics Association: Young Systematists Forum**

Poster presentation: “Folate Biosynthesis Gene Fusions Evolution in the Eukaryotes”.

1st December 2011

Natural History Museum

### **Society for General Microbiology Summer Conference**

Poster presentation: “Evolution of Folate Biosynthesis Gene Fusions in the Eukaryotes”.

5th-7th September 2011

University of York, UK

### **EMBO: Comparative Genomics of Eukaryotic Microorganisms**

Poster presentation: “Evolution of Folate Biosynthesis Gene Fusions in the Eukaryotes”.

15th-20th October 2011

Sant Feliu de Guixols, Spain

## TEACHING

Co-supervision of a visiting summer research student registered at the University of Oxford. The project involved bioinformatic analysis of arsenate resistance HGTs.

## OUTREACH

Moderator of the “AskScience” science education outreach forum with over 14 million monthly views.

## TECHNICAL SKILLS

Experienced with UNIX/Linux, Bash, Awk, Perl, Git  $\text{\LaTeX}$ .

Some Knowledge with Python, C/C++, Javascript, Verilog, Prolog.

Basic Familiarity with Java, CSS, R, MySQL, PostgreSQL.

Experience with an array of basic molecular biology techniques and methodologies: PCR, qrtPCR, cloning, western blots, southern blots, sequencing technologies, fluorescence microscopy.

## OTHER INTERESTS

PADI Open Water Diver.

St. John’s Ambulance First Aider.

RYA Level 3 Sailing.

Languages: German (intermediate), French (basic/intermediate), Arabic (basic), Japanese (basic).

Musical instruments: French Horn and Bass Guitar.