FACULTY of 1000

Careers in science publishing

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Outreach Director

University of Louisville, July, 2015

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Where will a biology PhD At this rate, <8% of entering A faculty job is PhD students will become an "alternative" tenure-track faculty. Yet, 53% rank research professorships take you? as their most desired career.3 career. 1.900 to 3.900 30% do more than one postdoc1 foreign-trained PhDs start postdocs 15% of 17,000 postdocs get tenure-37-68,000 current bio PhDs 720 track faculty 29,000 doing non-science Leave jobs within 6 86,000 jobs the US current tenured and years post current postdocs PhD.2 tenure track faculty 22,500 current US biology PhD students current industry 70% (5,800) Postdoc 9,000 researchers Every year, 16,000 Receive PhDs students start biology years PhD programs 20% get non-tenure track academic jobs US PhDs spend an average of 4 within 6 years post years, but others must spend PhD.2 7 years 37% longer to account for number of 7,000 30% 24,000 drop postdocs. 25,000 (2,500)average time to degree current gov't Don't current noncurrent non-tenure researchers postdoc research, science track academic related jobs positions 10% of former postdocs (up from 1 - Science Careers Annual Postdoc Survey (2012) http://goo.gl/nmVYCN 2% in 2010) consider themselves 2 - doi:10.1038/472276a http://www.nature.com/news/2011/110420/full/472276a.html unemployed.1

POST-GRAD CAREERS IN SCIENCE PUBLISHING & COMMUNICATION

- Journal Editing
- Medical Writing
- Science Journalism
- Science Outreach

JOBS AT THE EDITORIAL DEPARTMENT

Editorial duties are detailed and stretch the scientific knowledge:

- perform prepublication checks on articles
 - is this science?
 - readable?
 - adequate protocol information?
 - appropriate consent and ethical requirements?
 - plagiarism?
- liaise closely with authors
- write reports, articles, critiques and summaries
- plan and organize projects
- research and commission features and new titles

EDITORIAL CAREER PATH

Victoria Aranda

PhD in Biochemistry and Molecular Biology



Experience

Senior Editor

Nature Publishing Group

March 2012 - Present (2 years) | Greater New York City Area



Associate Editor

Nature Publishing Group

July 2010 - April 2012 (1 year 10 months)



Assistant Editor

Nature Publishing Group

January 2010 - July 2010 (7 months)



Postdoctoral Fellow

Cold Spring Harbor Laboratory

September 2004 - August 2009 (5 years)



Postdoctoral Fellow

Stony Brook University

April 2004 - September 2004 (6 months)

Protein sorting mechanisms, mouse genetics of lipid receptor chaperones







EDITORIAL CAREER PATH

Steven LokwanPhD in Neuropsychopharmachology

Background



Experience

Director of Operations

Faculty of 1000

April 2008 - Present (5 years 11 months)

Project Director

Faculty of 1000 Biology

January 2006 - April 2008 (2 years 4 months) | London, United Kingdom

Managing Editor

Faculty of 1000 Biology

January 2002 - December 2006 (5 years) | London, United Kingdom

Commissioning Editor

Faculty of 1000 Biology

August 2000 - December 2002 (2 years 5 months) | London, United Kingdom





Show that you have great communication skills

- neat, error-free, professional emails
- don't have a silly sounding e-mail
- cover letter a must

Display professional purpose

- what is special about the journal/publisher?
- you want to leave research?
- why a publishing career?

Be concise and specific

- But don't write a massive essay!
- don't talk about love of writing or communicating science to the public

No experience necessary

- science writing degrees are not good for this type of career
- publisher prefers to mentor you from the start

Be ready for tests

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CAREERS IN SCIENCE WRITING

- technical writer requires a lot of science writing expertise (grants, papers, methods, etc)
- science journalism/writing for the public
- policy writing
- consult other science writers

SCIENCE WRITING CAREER PATH

Jennifer Deleon PhD in Molecular and Cell Biology



Experience

Freelance Science Writer

New York Academy of Sciences

November 2012 - Present (1 year 4 months) | Greater New York City Area





Doctoral Research

Stony Brook University

January 2011 - Present (3 years 2 months)

Utilized advance molecular biology techniques to identify novel roles of Class I Pi3K

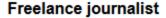


SCIENCE WRITING CAREER PATH

Ed YongPhD in Biochemistry



Experience



Various

September 2007 - Present (6 years 6 months)

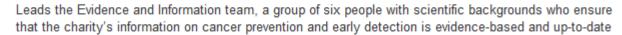
Science writer published in Nature, the BBC, New Scientist, Wired UK, the Guardian, the Times, Discover, The Scientist, the BMJ, CNN, Slate, the Daily Telegraph, the Economist and more.

Creator of award-winning science blog Not Exactly Rocket Science

Head of Health Evidence and Information

Cancer Research UK

September 2004 - July 2011 (6 years 11 months)



Edits and fact-checks writing from across the charity for consistency and accuracy, including press releases, web content, publications, copy from corporate partners, health campaigns, policy statements and more.



SCIENCE WRITING CAREER PATH

David Saltzberg

PhD in Physics

- Thesis work on the mass of the W boson
- Postdoc at CERN
- faculty member at UCLA
- Recipient of multiple awards and fellowships
- science consultant for CBS's The Big Bang Theory: checks scripts, advises producers, writers, actors, set decorators, prop masters, costume designers etc. on scientific accuracy
- writes <u>The Big Blog Theory</u> blog to explain the science behind each episode



SO HOW DO YOU GET A SCIENCE WRITING JOB?

- Writing experience during PhD often isn't adequate
- Journalism training/experience is expected
- Blogging/tweeting/social media
 - Guest blog:
 - F1000 blogs
 - Sciencescape blog
- Networking

SCIENCE OUTREACH

Main goals: increase product awareness and public engagement

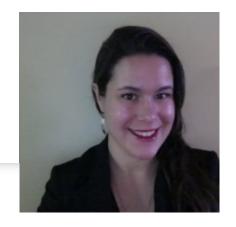
- plan, develop, and execute strategies to reach individual users
- develop relationships across departments internally
- Develop and lead global programs
- Travel to key meetings and site visits to deliver compelling presentations
- Attend conferences and participate as a speaker or panelist

GENERAL WORK TASKS

- Meetings and conference calls
- institute visit
- Conferences
- Organize and lead discussion groups
- Communicate to/with researchers
 - Email
 - Meetings
 - Blog posts
 - Press releases
 - Social media
- At conferences: talk to people to find out what's new in different fields

SCIENCE OUTREACH CAREER PATH

Christine Buske
PhD in Cell Systems Biology/Neuroscience





Experience

Head of Outreach & Relationship Development

Springer Science+Business Media / Papers

January 2014 - Present (2 months) | London, United Kingdom

Lead Marketer ('Papers Genius') for Papers

Springer Science+Business Media / Papers

January 2013 – January 2014 (1 year 1 month) | London, United Kingdom





SCIENCE OUTREACH CAREER PATH

Lou Woodley

PhD in Gene expression and microbiology (thesis unsubmitted)



Experience

Communities Specialist - nature.com

Nature Publishing Group

April 2011 - December 2013 (2 years 9 months) | London, Cambridge, NYC and online



Product Manager - Nature Network and nature.com blogs

Nature Publishing Group

November 2009 - April 2010 (6 months)



Product Development Manager

Nature Publishing Group

July 2009 - November 2009 (5 months)



Graduate Intern

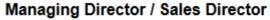
Macmillan

November 2008 - June 2009 (8 months)

Managing Editor

BlueSci magazine

June 2004 - October 2006 (2 years 5 months)



Loughborough High School - Young Enterprise Scheme 1996 – 1997 (1 year)



THE OUTREACH TEAM AT F1000









DO WHAT YOU LOVE!



Brian May, guitarist of Queen PhD in Astrophysics



Brian Keith
"Dexter" Holland,
guitarist of
Offspring
PhD candidate in
Molecular and
Cellular Biology



Mayim Hoya Bialik, actress PhD in Neuroscience



Angela Merkel, politician PhD in Quantum Chemistry