

# John Muddle

## POSITION

6-2047 rue Montcalm, Montréal, Québec, Canada, H2L 3H8  
British Citizen - Open Work Permit

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## Summary

Currently, a Freelance Consultant working for NAG with 7+ years experience in developing scientific software, primarily in Fortran and Python. Specializing in Finite-Volume Methods and the Ctypes Python Module. Experience with using Linux, OS X and Windows for software development including version control. Interested in Machine Learning, Algorithmic Differentiation, and Optimization.

## Work Experience

### John Muddle Consulting

Montreal, Canada

FREELANCE CONSULTANT

Sep. 2016 - PRESENT

- Updated NAG's Python Wrappers to be compatible with its Mark 26 C Library
- Developed new Python examples and technical marketing material
- Managed and collaborated with NAG staff during development
- Provided support and Python examples for customers
- Tutored and trained new employees on version control and unit testing
- Provided advice on commercial and technical decisions

### The Numerical Algorithms Group Ltd. (NAG)

Oxford, UK

TECHNICAL SALES SUPPORT ENGINEER

Mar. 2015 - Sep. 2016

- Sales account manager for Africa, Asia, Eastern Europe, Italy, Oceania, South America and Spain
- Developed new technical marketing material in Python and Excel/VBA
- Streamlined sales pipeline reporting
- Helped develop new processes for leads and opportunity tracking
- Provided public and in-house training to financial institutions and universities

## Skills

<b>Programming</b>	Advanced: Python, Fortran 2003/8, Moderate: MATLAB, LaTeX, HTML, Beginner: Javascript, R, C/C++, VBA
<b>Version Control and Integration</b>	Git, SVN, Github, Bitbucket, Travis
<b>Languages</b>	Native: English, Beginner: French, German
<b>Operating Systems</b>	OS X, Debian Based Linux, Windows
<b>Databases</b>	SQLite, MongoDB, Postgresql
<b>Mathematics Software</b>	Maple, Mathematica, SymPy
<b>Office Software</b>	Excel, Word, Access, Outlook
<b>Debugging</b>	Valgrind, GDB, PDB

## Education

### Udacity

Oxford, UK and Montreal, Canada

DATA ANALYST NANODEGREE

Nov. 2015 - Nov. 2016

### University of Southampton, School of Mathematics

Southampton, UK

PH.D. IN APPLIED MATHEMATICS, GENERAL RELATIVITY GROUP

Sep. 2010 - Sep. 2014

### University of Southampton, School of Physics

Southampton, UK

MASTER OF PHYSICS WITH MATHEMATICS (MPHYS) - FIRST CLASS (HONS)

Sep. 2006 - Jun. 2010

## Honors & Awards

2016 **Best Ph.D. Thesis in Gravitational Physics awarded by The Institute of Physics**

Nottingham, UK

2008 **Best Physics Society for Media and Communication awarded by The Institute of Physics**

London, UK