

Dr Colin Beveridge

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About me

Hi! My name is Colin, and I am a mathematician.

I love solving hard problems, from pricing options to guiding autonomous submarines.

I have a strong track record in mathematically-based software development and communication.

I am driven by finding neat solutions to complicated problems.

My background is in numerical computing.

During my Ph.D. and postdoc, I simulated the magnetic field in the Sun's atmosphere as part of NASA's *Living With A Star* project. More recently, I've been modelling option prices.

I'm seeking short-to-medium term contract work but am open to longer-term opportunities.

Employment History

- 2021 – ···· **Quantitative Finance Developer/Analyst**, Ibsen, Palo Alto, CA, USA (remote)
- 2018 – 2021 **Associate**, Advanced Maths Support Programme, UK (remote)
- 2008 – ···· **Consultant, Author, Tutor**, Flying Colours Maths, UK
- 2004 – 2008 **Postdoctoral Research Associate**, Montana State University, Bozeman, MT, USA

Selected Projects

- Options trading **I designed and implemented a system to interact with a trading API, price options in real time, and execute trades automatically.**
Keywords: *go, Interactive Brokers, options, algorithmic trading*
- AUV parking **I developed a system to determine the position and attitude of an autonomous underwater vehicle, and dynamically plan a route to its dock.**
Keywords: *python, route-planning, geometry, Bayesian statistics, sonar*
- Sports science **A researcher had detailed three-axis accelerometer data from cycling experiments. I developed a spreadsheet solution to convert the data to the required angular form.**
Keywords: *Excel, DOTs, 3D vector calculus, accelerometer*

Education

- 2000 – 2003 **Ph.D., University of St Andrews Mathematics**
Thesis title: *The Magnetic Topology of the Solar Corona.*
- 1996 – 2000 **B.Sc., University of St Andrews Mathematics with French**

Personal

- When I'm not solving problems or spending time with my family, I can be found training for a triathlon on the beautiful Dorset coast, or cementing my reputation as Weymouth's foremost mathematical comedy singer-songwriter at a local open mic.