



# DANIEL SWAN

SCIENCE & MATHEMATICS TEACHER

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## EDUCATION

### Loughborough University

Master of Engineering, 2013

2.1 (Hons)

### Swansea University

PGCE with QTS: Physics

## ABOUT

I love teaching and am in my 5th year of the profession. Currently I teach A Level & IGCSE Physics and Science, KS3 Science, and Engineering in the Innovation Hub of the British School. I have also taught Mathematics and Computer science in this school over the past 2 years.

Prior to this I was leader for learning of Mathematics and Physics at Atherton International School in Korea, teaching A Level Physics, Mathematics and Computer Science.

Before this, I taught physics and science at the British School of Bucharest (prior to being asked to return) and have experience teaching all ages of high school/secondary, including IMYC.

I always aim to make learning fun, with real-world applications and practical demonstrations throughout my practice.

Prior to teaching, I worked at Barclays Capital, leading the global development of financial technology, before consulting and developing my artwork further.

I love to be in nature and I go on major expeditions most years. I have led several school trips, including to the arctic, ski trips, surfing trips, and hiking the highest peaks in Korea for DOE.

I also love snowboarding, playing music, and training in martial arts (Muay Thai, BJJ & MMA). I was a martial arts champion myself in my 20s and still regularly train at the highest level (last year I trained with Jon Jones in Phuket, and Tawanchai at PK Saenchai.)

## SKILLS & EXPERIENCE

### Teaching Experience

- Leader of learning at Atherton International School, Korea.
- Taught Physics, Computer Science, and Mathematics to A Level
- Physics, Biology, Chemistry and Computer Science at I.G.C.S.E
- KS3 Science, Mathematics & Computer Science
- Teach engineering at the innovation hub, where our students learn to build an electric car over a year, then race in the arctic.
- Led Sci-Tech for KS3
- Private tutor of Mathematics
- Advanced Visual Design, Engineering & Technology Skills (MEng), which enriches lesson delivery.
- My practice uses project-based learning extensively (e.g. creating live aquarium ecosystems in class, building a car).
- Years of teaching as a martial arts instructor (trained Mixed Martial Arts champions and Elite Athletes)
- Multiple-time European and British Champion.
- Ran several school ski, surf, arctic, astronomy and hiking trips.
- Led several (non school) wildlife expeditions into jungles & mountain ranges and across continents (India, U.S, Europe).

### Creative Skills Experience

- An extensive body of work in fine art photography.
- Exhibited around the world and in leading galleries.
- Created a major exhibition in the heart of London raising thousands for charitable work: [see here](#).
- Create advanced digital and traditional renderings.
- Created street art & murals all across the world.
- A lifelong love of Art with a large body of work across multiple media and disciplines ([see here](#))

### Past Experience: Barclays Capital - Team Lead

- Managed a Global team on a 24-hour development lifecycle (employees in Dallas, New York, London & Pune) with a significant budget (Millions of USD).
- Extremely skilled in programming and computing.
- Developed innovative fintech to market with high visibility and major media exposure (Sky News).
- Reported to most senior leaders of executive board
- Subject matter expert in cryptocurrency and DeFi.

Education is about enriching experiences that develop self-awareness, character, talent, and love.

Promoting a love of life and a sense of wonder is as key to my teaching as is academic success. Having fun while exploring this universe is part of preparing learners for a lifelong journey of learning.

A primary objective within all of my teaching is to inspire students to explore their interests deeply. I am consistently told that I do this for many and that the students love this about our lessons.

We are all talented in some way, and a good teacher knows how to guide students toward their unique gifts while facing life's challenges to develop a habit of excellence and self-respect.

To learn and develop consistently requires an ability to reflect, and I always plan time for student reflection, metacognition, and group sharing in my teaching practice.

Through project work and experiential learning, I provide students with the tools to face varied and realistic challenges in their future. I love to foster entrepreneurial spirits, and one of my students is currently filing a patent for his recent project.

It is important to find the right balance between preparation and self-discovery, to enrich (rather than define) the young people we have the responsibility of caring for. It is also increasingly important in today's world to develop the inward freedom, discipline, and confidence of each young person, so that they can thrive both as individuals and as members of a worldwide community.

There are several ways to teach, but the most effective is always based upon excellent relationships. I always work to create a dynamic and nurturing learning environment that enables the expression of unique interests and learning styles while addressing areas for development.

By using scenario-based learning, my classes make the content more relevant and exciting. Custom-made projects bring a practical understanding of the "real" world and bring the subject to life.

I have had many unique experiences that help inform my teaching. From camping in jungles for weeks to cycling across a continent over months, my adventures through this layered reality are invaluable and rare. I find they help immensely with encouraging students to pursue their own life's passions.

My journey is too varied to express fully in this document, but I would be delighted to share it in person.

Whether it is the experience of tracking Tigers and Leopards deep in the jungles of India, painting large-scale street murals, or pointing a camera at life's beauty and sharing it through exhibitions, I show my care for this planet and our children's future with real action. Being able to offer the experience, skills, and perspective gained from such a journey is a unique and valuable offering for any school.

From discussing galactic superclusters to observing the Orion Nebula through a Dobsonian telescope, designing aquatic ecosystems and eco-gardens, or electric cars, my teaching employs a variety of powerful methods to inspire effective, lifelong learning. The most effective method of all is to listen to and learn from our students. By truly listening, we can make their education into a fun and fruitful adventure.

Thank you so much for your consideration. I have attached a few images below to better indicate the character and experience I can offer your school community.

With warm regards,

A handwritten signature in black ink that reads "Daniel". The script is fluid and cursive, with a prominent loop at the end of the name.



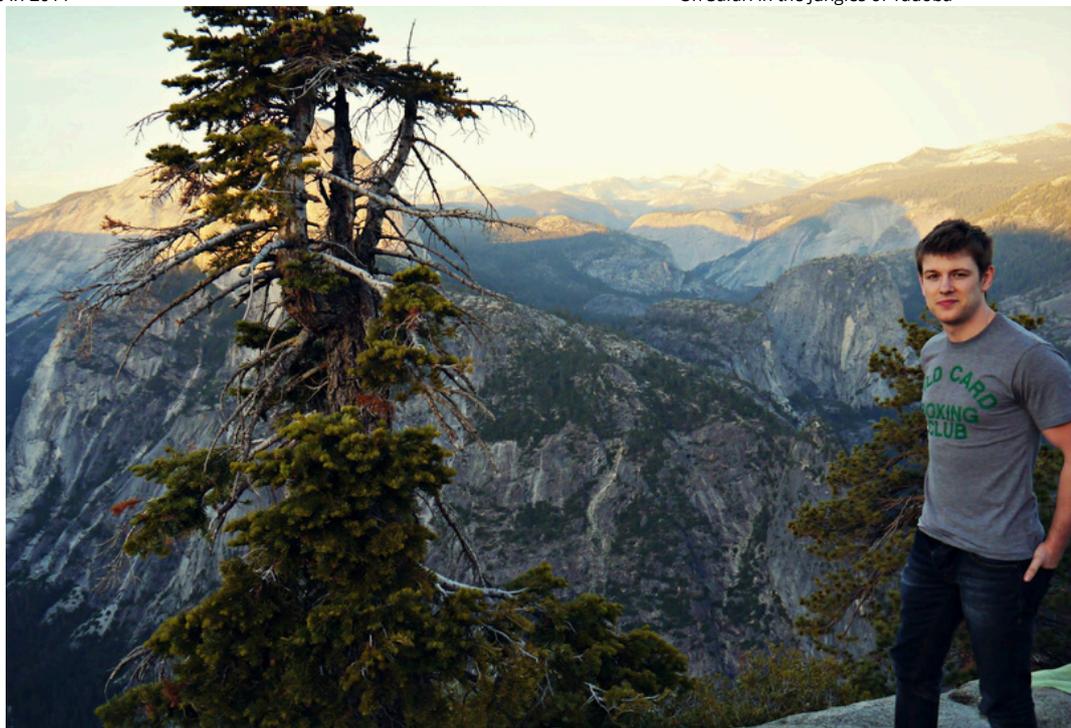
Cycling across the Alps in 2011



On Safari in the Jungles of Tadoba



Training with Rafael Fiziev (top UFC athlete) in Phuket 2025



Travelling the National Parks of North America in 2016



Street art painted in 2019, showing galaxies and nebulae.



London Street Art Mural in Progress



My Piece for a national Street Art Mural Competition in Halifax, England



Street Art Painting of Native American Tribe



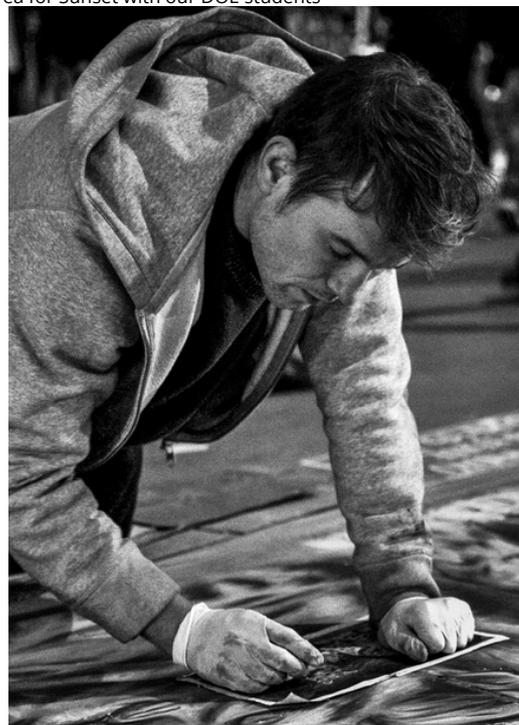
Leading Students Hiking through Jirisan National Park



Reaching the highest peak (Jirisan) in mainland Korea for Sunset with our DOE students



Street Painting of Nobel Prize Winning Physicist Richard Feynman in London's Trafalgar Square (2019)



Street Painting Snow Leopards in London



Vaughan Lee (former European no. 1) beats Kid Yamamoto at UFC 144



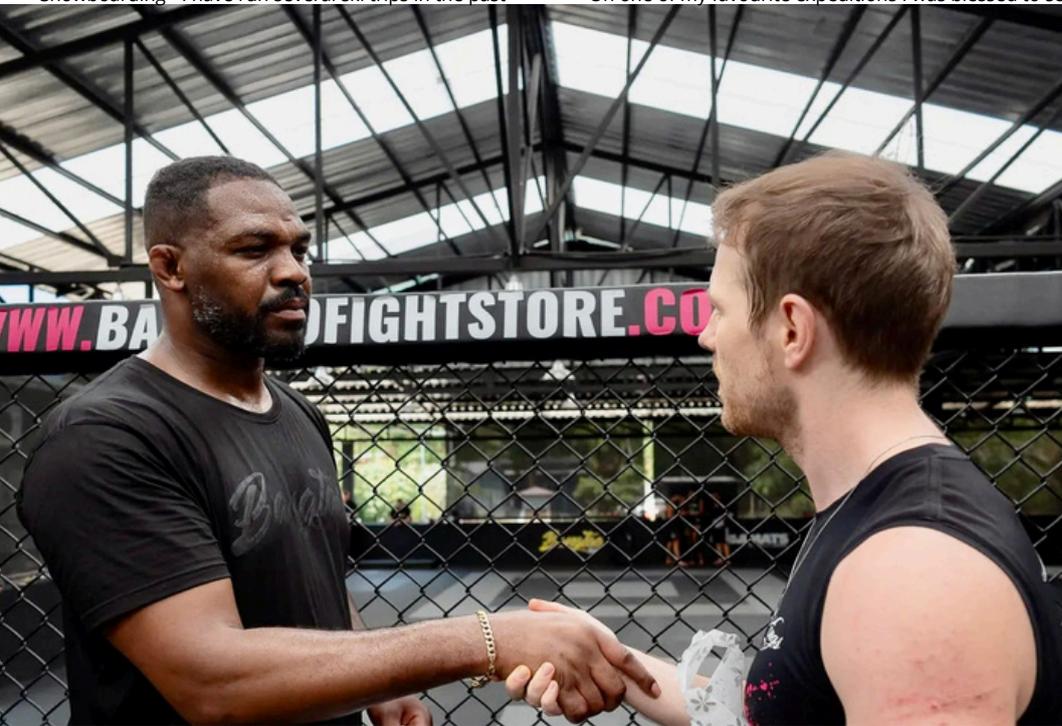
I (left) won Gold against Vaughan Lee (2011)



Snowboarding - I have run several ski trips in the past



On one of my favourite expeditions I was blessed to see this Tiger hunting in Tadoba National Park



After Training with Jon Jones in Phuket, 2024



Climbing the Dolomites (2024)



LOUGHBOROUGH UNIVERSITY

*This is to certify that*

*on 16 July 2013*

*Daniel Swan*

*was admitted to the degree of*

*Master of Engineering*

*Second Class Honours, Upper Division*

*in Electronic and Electrical Engineering*

*Robert J. Aniscu*

VICE-CHANCELLOR



**PRIFYSGOL ABERTAWE      SWANSEA UNIVERSITY**

Hyn sydd i dystio bod      It is hereby certified that

**DANIEL SWAN**

o **PRIFYSGOL ABERTAWE**      of **SWANSEA UNIVERSITY**

wedi derbyn      has been awarded a

**TYSTYSGRIF ÔL-RADDEDIG MEWN**      **POSTGRADUATE CERTIFICATE IN**  
**ADDYSG**      **EDUCATION**

mewn **TAR UWCHRADD GYDA SAC:**      in **SECONDARY PGCE WITH QTS:**  
**FFISEG**      **PHYSICS**

ar 05 Gorffennaf 2021      on 05 July 2021



Is-Ganghellor  
Prifysgol Abertawe

Vice-Chancellor  
Swansea University



[Please go here for website CV with certificates](#)

