




DANIEL SWAN

PHYSICS, MATHEMATICS & CS 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 have 5 years experience in secondary school teaching. I currently teach A Level and IGCSE Physics, KS3 Computer Science, and engineering in the innovation hub of the British School in Romania.

I formerly was leader for learning of Mathematics at Atherton International School in Korea, as well as leading A Level Physics and Computer Science.

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

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

Before teaching, I worked at Barclays Capital, leading the global development of financial technology, before consulting and developing my art career.

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

I also love snowboarding, playing music, archery, and training in martial arts (Muay Thai, BJJ & MMA). Muay Thai is a major passion of mine, as I still train at a high level and regularly train with the best (last year I trained with Jon Jones in Bang Tao, and Tawanchai at PK Saenchai. I was a martial arts champion myself in my 20s)

SKILLS & EXPERIENCE

- Leader of learning at Atherton International School, Korea.
- Taught Physics, Computer Science, and Mathematics to A Level
- Physics, Biology, 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 them.
- Co-taught A Level Electronics & SciTech
- 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 or building a car).
- Years of teaching as a martial arts instructor (trained Mixed Martial Arts champions and Olympians)
- Multiple-time European and British Champion.
- Ran several school ski, surf, arctic, astronomy and hiking trips.
- Led several wildlife expeditions into jungles & mountain ranges and across continents (India, U.S, Europe).

Artist & Designer

- 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](#))

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 lifelong learning.

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

We are all talented in some way, and a good teacher knows how to guide students toward their unique gifts while facing 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.

Through project work and experiential learning, I provide students with the tools to face varied and realistic challenges in their future endeavors.

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 I find the most effective is always based upon excellent relationships. I always aim to provide 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 feel more relevant. Through this, we delicately curate a growing understanding of the "real" world and apply subject knowledge to life.

I have had many unique experiences which 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 hiking deep in the jungles of India or running photography exhibitions and painting large-scale street murals to raise awareness and funds for conservation, I can prove my care for this planet and our children's future with the actions of my life. Being able to offer the experience, skills, and perspective gained from this effort is a unique and invaluable offering for any school.

From discussing galactic superclusters to observing the Orion nebula through a telescope, learning projectile motion through archery, or designing aquatic ecosystems and eco-gardens, my teaching uses real-world projects and engineering to inspire effective lifelong learning and sustainability.

By listening to our children, we can make education into a fun and fruitful adventure, rather than a series of assessments or merely the propagation of prior thought patterns.

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

Yours sincerely,

A handwritten signature in black ink, appearing to read "Daniel", written in a cursive style.



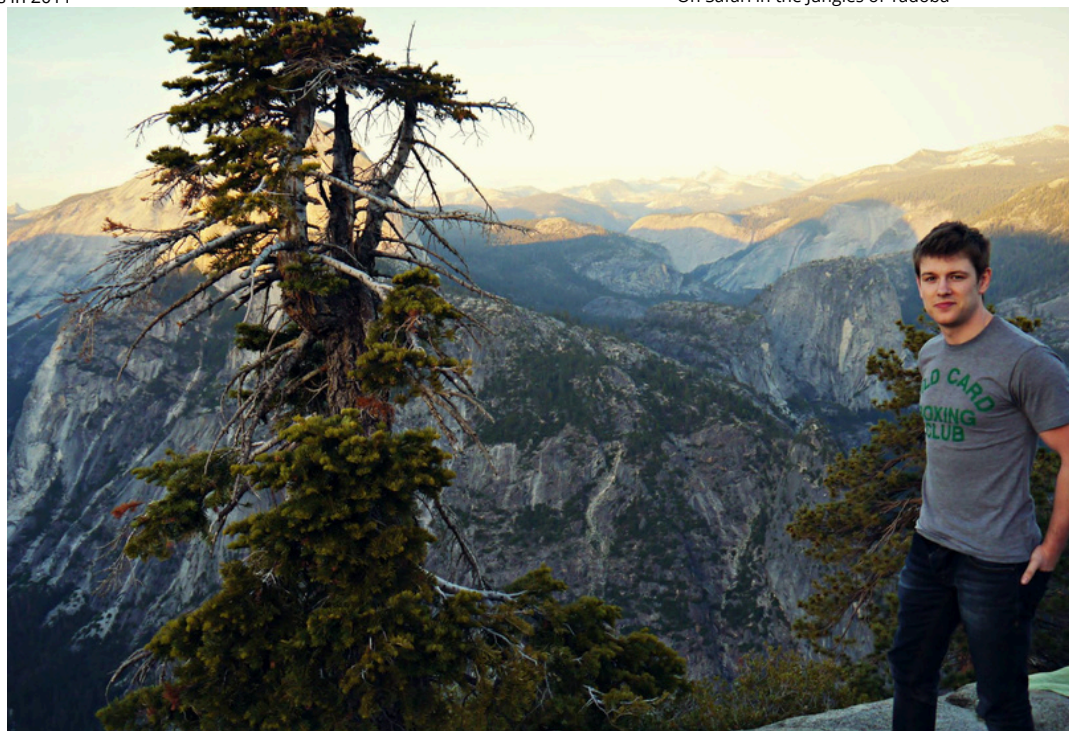
Cycling across the Alps in 2011



On Safari in the Jungles of Tadoba



American Top Team Head Coach (Mike Thomas Brown)



Travelling the National Parks of North America in 2016



Leading DOE 2 day trip to the highest peak of South Korea



London Street Art Mural in Progress



Fighting against UFC Veteran Vaughan Lee in 2011



Vaughan winning in the UFC



John Machado training Keanu Reeves for John Wick



Bringing students to the arctic, with the Dobsonian telescope we shipped all the way from Bucharest.



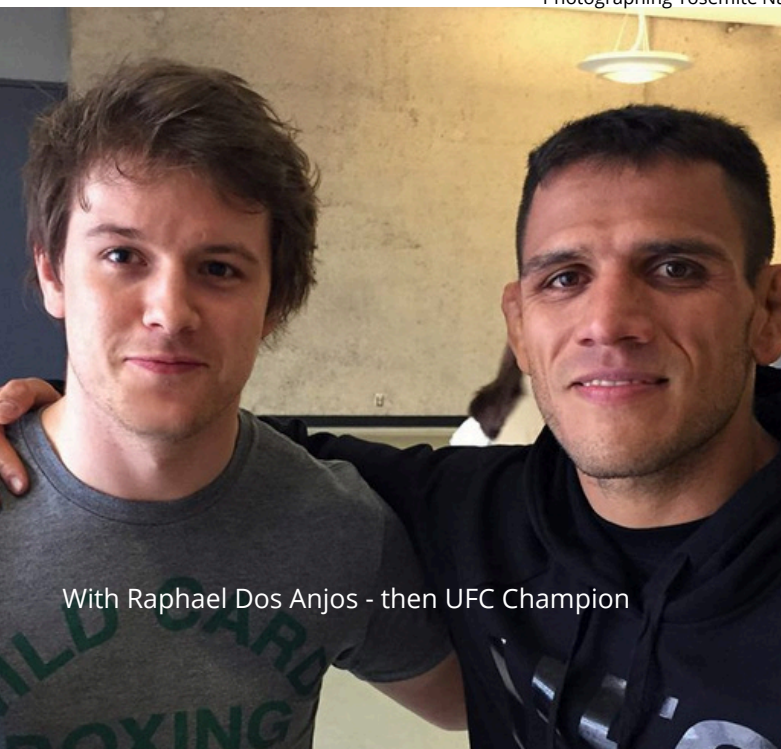
With Jon Jones, UFC Champion



Training with Master Gae in Thailand



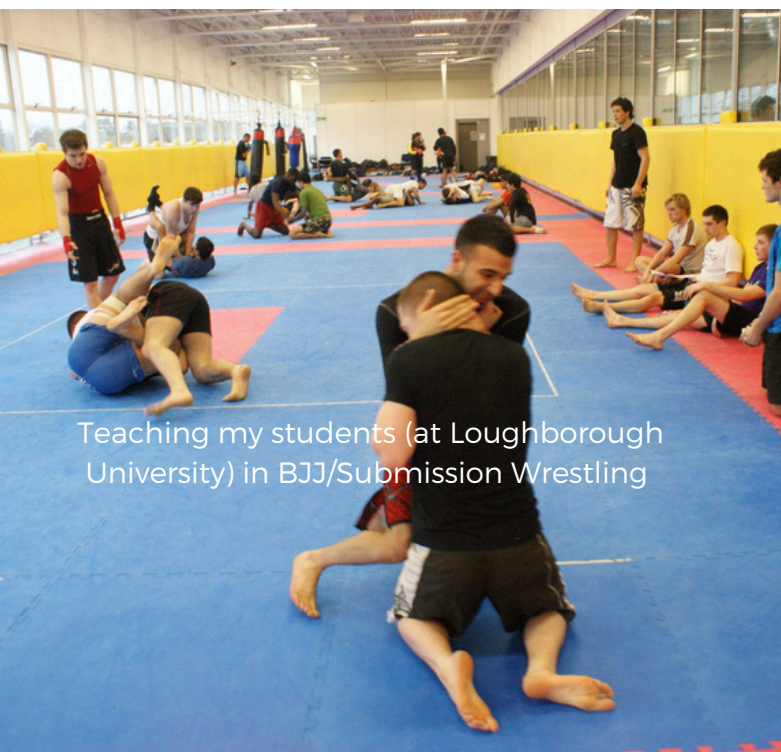
Photographing Yosemite National Park in California



With Raphael Dos Anjos - then UFC Champion



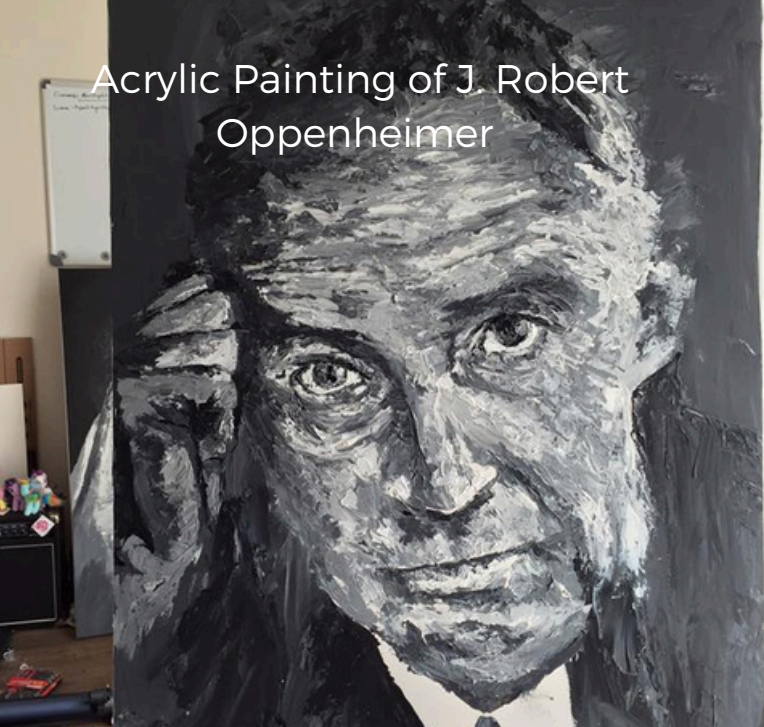
One of my Tiger Encounters



Teaching my students (at Loughborough University) in BJJ/Submission Wrestling



Snowboarding with friends



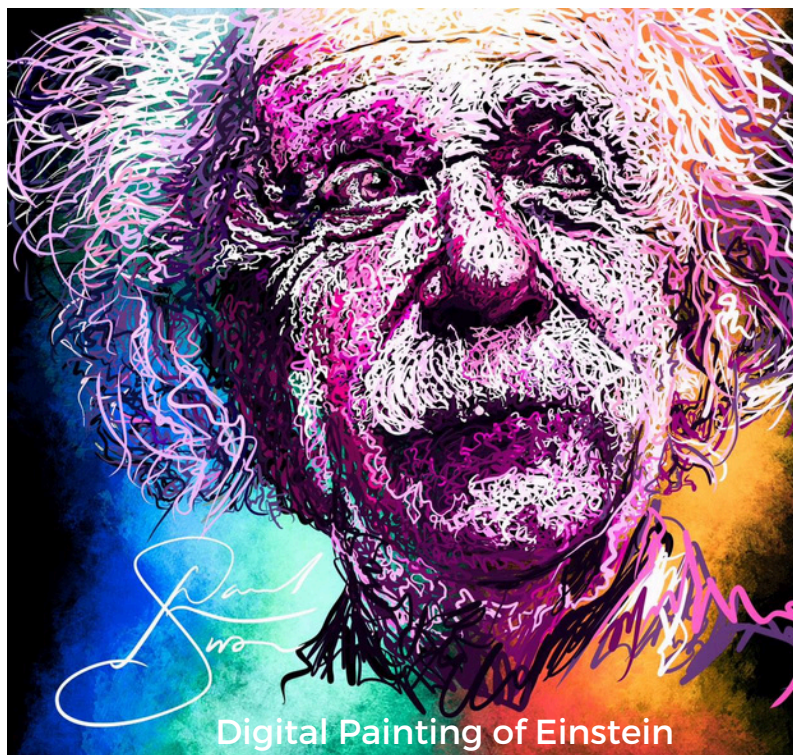
Acrylic Painting of J. Robert Oppenheimer



Street Painting Einstein



Street Painting in Chalk Art Festival



Digital Painting of Einstein



Street Painting of Native Americans

