

# TIYEN MILLER

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## EXPERIENCE

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### **DEPARTMENT OF EDUCATION SERVICES**

Cayman Islands

*The DES is a department of the Ministry of Education of the Cayman Islands Government*

#### **Science and Technology Coach**

*August 2018 to Present*

- Building capacity in schools across the islands to improve the teaching and learning of science and technology
- Supporting and mentoring teachers and other school stakeholders through coaching and professional development
- Developing learning resources and support systems including collaborative platforms and assessment tools
- Key contributor to the development of the Cayman Island National Curriculum (2019) for primary schools

### **CLIFTON HUNTER HIGH SCHOOL**

Cayman Islands

*CHHS is a large state secondary school run by the Cayman Islands Government.*

#### **Teacher of Science – Physics teacher, STEM Coordinator, SLT secondment**

*August 2014 to August 2018*

- Taught all sciences from ages 11 to 16 including CSEC and GCSE qualifications in Physics and Integrated Science
- Predominantly “exemplary” teaching observation reviews and value-added progress leading to high pass rates
- Led INSET to improve teaching and learning school-wide including cross-curricular STEM enrichment
- Developed and shared resources for newly introduced CSEC courses in Physics and Integrated Science
- Pastoral responsibilities included leading a tutor group and the teaching of life skills
- Contributed to school improvement and strategic planning as a seconded member of the senior leadership team

### **REGENT HIGH SCHOOL**

London, UK

*RHS is an urban comprehensive state school with an ethnically diverse student population with 90% EAL and a high level of free school meals that achieved a rating of “Good” by Ofsted in 2012 and a GCSE pass rate above the national average in 2013.*

#### **Teacher of Science – Physics lead teacher and STEM Coordinator**

*July 2006 to August 2013*

- Taught all sciences from ages 11 to 18 including Physics and Psychology A-Level and Applied Science BTEC
- Introduced A-Level Physics as a new course, developing and sharing all materials and schemes of work
- Mentored new teachers to promote and track their development
- Consistently “good to outstanding” teaching observation reviews leading to high pass rates
- Embedded cross-curricular STEM initiatives leading the school’s recognition as Rolls-Royce Science Prize finalists
- Pastoral responsibilities included a tutor group and the role of community coordinator for the student council
- Led INSET programmes on topics ranging from improving ICT use to building cross curricular links
- Pearson Teaching Award nominee in 2010 and 2013
- Contributed to the governance of the school as teacher governor for a full four-year term

### **IMPALA WEB DEVELOPMENT**

London, UK

*IWD is a consultancy helping businesses develop effective e-commerce solutions.*

#### **Founder**

*February 2002 to September 2005*

- Overall management of the company, database design and web application programming

### **HIV OUTREACH PROGRAMME OF EDUCATION (HOPE)**

Cape Town, South Africa

*HOPE Cape Town is a non-profit organisation providing outreach and education focusing on HIV/AIDS.*

#### **Volunteer Educator and Software Engineer**

*December 2003 to April 2004*

- Developed an on-line system allowing rural health clinic staff to quickly get remote help from consultant doctors
- Led educational courses about HIV awareness in township clinics

### **EASYNET LIMITED**

London, UK

*Easynet is a global network, hosting and cloud integration business.*

#### **Web Development Team Leader**

*November 1999 to February 2002*

- Led a team of nine staff, managed team performance, and implemented strategic plans to improve efficiency

## **EDUCATION**

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### **WALDEN UNIVERSITY**

Minneapolis, USA

#### **MSc Education**

*December 2024*

- Specialisation in Integrating Technology in the Classroom
- 4.00 GPA

### **UNIVERSITY COLLEGE LONDON**

London, UK

#### **CertHE Astronomy**

*August 2012*

- Final year dissertation about exo-planet detection awarded first class marks

### **INSTITUTE OF EDUCATION (UNIVERSITY COLLEGE LONDON)**

London, UK

#### **PGCE Secondary Science**

*August 2006*

- Specialisation in Physics
- Post-Graduate research dissertation about school intra-net use identified for use as a high-grade exemplar

### **UNIVERSITY OF CALIFORNIA, SAN DIEGO**

San Diego, USA

#### **BSc Cognitive Science**

*March 1998*

#### **BA History - Economics minor**

- Awarded Provost's Honours and the Betty Tate International Scholarship
- Top 15% of the graduating class by GPA
- Overseas studies contributing to the UCSD degrees at the University of Birmingham, UK (1994 to 1995) and the University of Natal, Pietermaritzburg, South Africa (1997)

## **ADDITIONAL QUALIFICATIONS AND TRAINING**

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- First Aid Instructor Qualification through the Cayman Islands Red Cross (2023)
- Second Step<sup>®</sup> child protection course through the Committee for Children (2022)
- Leadership and Management Level 3 (ILM3) certification through ILM City and Guilds (2022)
- Microsoft Certified Educator (MCE) certification through Microsoft (2021)
- Stewards of Children<sup>®</sup> child protection course through Darkness 2 Light (most recently June 2019)
- Instructional Coaching course through Corwin Professional Learning (2018)
- Teaching Primary Science course through the National STEM Learning Centre, UK (2018)
- Geology of the Cayman Islands residential course through Water Authority Cayman and U. of Alberta (2018)
- Diploma in Project Management through Alison (2016)
- Language in Learning Across the Curriculum (LILAC) course through the London Borough of Camden (2012)
- Physics teacher professional development residential course through CERN (2010)
- Interactive whiteboard training certifications through SMART Technologies and Promethean (2006)
- Qualified Teacher Status (QTS) through the General Teaching Council for England (2006)

## **PROFESSIONAL MEMBERSHIPS**

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- Cayman Islands Astronomical Society (CIAS), President (member since 2014)
- International Astronomical Union (IAU), National Outreach Coordinator for the Cayman Islands (since 2019)

## **INTERESTS AND PERSONAL INFORMATION**

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- Avid promoter of amateur astronomy, leading small groups to view solar eclipses around the globe
- Interest in travel, having visited over 200 countries
- Outdoor activities include hiking, scuba diving, free diving, and surfing
- Conversational French language skills
- Dual citizen of the UK and USA
- Permanent Resident of the Cayman Islands