



KEVIN ROSS FREDERICK

High School Mathematics and Computer Science Educator

+1 707 809 5559 (USA)

www.fredfacts.com

krfred@fastmail.fm

PERSONAL PROFILE

I am an enthusiastic and detail-oriented mathematics and computer science educator with over 20 years of teaching experience in the U.S. and abroad. I passionately believe that every student can succeed in mathematics and I am dedicated to fostering student success through innovative practices, including authoring textbooks, contributing to educational websites, and mentoring novice IB teachers. I excel at developing enrichment programs that broaden students' mathematical experiences and enjoy collaborating in leadership roles to develop and implement impactful educational initiatives.

TEACHING EXPERIENCE

Algebra, Geometry, Algebra 2/Trigonometry, International Baccalaureate (IB) MYP 4 (Grade 9), IB MYP 5 (Grade 10), IB Analysis and Approaches SL/HL, IB Applications and Interpretation SL/HL, IB Math Studies, IB Mathematics SL/HL, Advanced Placement (AP) Calculus, Calculus II, Graphic Design, AP Statistics, Java Programming, Computing Technology. 2005 to present
I am confident in my ability to motivate students to succeed in any high school mathematics course.

POSITIONS HELD

- Upper School Mathematics and Computer Science Teacher** **August 2022 to present**
Teach various courses; acting Head of Upper School when needed; develop, plan, and implement core experiential education components; Cascades Academy, Bend, Oregon, USA
- Content Author: inThinking and IB Educator Network (IBEN)** **2020 to 2024**
InThinking IB DP Mathematics and AP Calculus websites; IBO Digital Channel.
- Teacher support and collaboration services** **2021 to 2022**
Supported novice IB DP Math teachers at Saint George's School, Spokane, Washington, USA.
- High School Mathematics Teacher** **2020 to 2021**
International School of Yangon, Myanmar
- High School Mathematics Teacher and Head of Secondary Mathematics** **2015 to 2020**
American International School of Lusaka, Zambia
Student-selected **commencement speaker**, May 2020.
- High School Mathematics Teacher, Curriculum Leader/Department Chair** **2010 to 2015**
American International School Vienna, Austria
- High School Mathematics Teacher and Department Chair** **2008 to 2010**
Walworth Barbour American International School, Israel
- Mathematics and Computing Technology Teacher, Coordinator** **2005 to 2008**
QSI International School of Bratislava, Slovakia
- ESL Teacher** **2004 to 2005**
International House Bratislava – Caledonian School, Slovakia
- English Teacher and Teacher Trainer** **2004 to 2004**
Ampro David English House, Bangkok, Thailand
- Software Engineer** **1997 to 2003**
Designed, developed, and maintained mission-critical software for a variety of companies and Fortune-100 clients in Colorado's Silicon Valley.

LEADERSHIP ROLES

- Mathematics Department Chair/Curriculum leader (Cascades Academy, AIS Lusaka, AIS Vienna, WBAIS Israel)**
Proven team leader; responsible for curriculum development (experience with CCSS and AERO), student placement, budgeting and ordering, advising senior leadership in division-wide decisions.
- Grade Level Leader (AIS Vienna)**
Ninth grade team leader: coordinate overnight student retreat, mentor 9th grade student council, lead bi-weekly homeroom meetings, point of contact for grade-level concerns.
- Technology Coordinator (QSI Bratislava)**
Managed full-time IT administrator, trained teaching staff, made purchasing decisions, and ensured operation, reliability and recoverability of all school IT systems.

PUBLICATIONS & AWARDS

Contributor, inThinking IB Mathematics Analysis and Approaches subject site	2023 to 2024
Co-Author, IB Mathematics Applications and Interpretations textbooks (Pearson)	2017 to 2019
Part of a team writing content for new textbooks aligned with updated IB DP Math syllabus, including authoring GeoGebra applets for eBook enhancement.	
Contributor, IB Mathematics Standard Level and Higher Level textbooks	2011 to 2012
Authored 91 instructional videos to accompany key textbook examples.	
Recognition of Excellence for Outstanding Score (195/200), ETC Praxis II Exam	2008
Upsilon Pi Epsilon, Computer Science Honor Society	1997

CONFERENCES & WORKSHOPS

inThinking DP Mathematics “Exploration Keys to Success” – presenter	February 2022
Co-led 6-hour online workshop for math teachers from around the globe	
inScholastics DP Mathematics Workshop – presenter	February 2019
Led workshop on new IB DP Applications and Interpretations courses	
ISAZ Teachers Teaching Teachers Conference – presenter	February 2018
Presented session “Avoiding dead-end shortcuts”	
Approaches to Teaching and Learning in the IB DP (Zambia)	October 2017
ISAZ Teachers Teaching Teachers Conference – presenter	February 2017
IB Mathematics HL (Poland)	November 2016
MYP Mathematics (South Africa)	February 2016
ISMTE Mathematics Conference – presenter	November 2014
Presented hands-on workshop “Why the Casio fx-CG20 might be your calculator of choice.”	
Other conferences and workshops	2006-2014
CEESA Annual Conference, IB Mathematical Studies, IB Mathematical Studies, College Board AP Statistics, College Board AP Computer Science, Space Academy for Educators (Alabama) with full scholarship, College Board AP Calculus.	

QUALIFICATIONS & EDUCATION

Wilderness First Responder (WFR) Certification	2024
Oregon State Teaching Certificate, Advanced Mathematics PreK-12 endorsement	2022
M.S. in Multidisciplinary Studies: International Education, State University of New York – Buffalo State, Buffalo, New York, USA	2021
Missouri State Teaching Certificate (Secondary Mathematics), permanent credential	2012
Graduate Studies (Education), University of Missouri – Saint Louis, Missouri, USA	2006 to 2008
CELTA (Certificate of English Language Teaching to Adults), Bangkok	2004
Graduate Studies (Computer Science), University of Colorado – Boulder, Colorado, USA	2002
B.A. in Computer Science/Mathematics, Macalester College, St. Paul, Minnesota, USA	1997
With study abroad at Australian National University, Canberra, Australia, Fall 1996.	

ACTIVITIES & ACCOMPLISHMENTS

Commencement speaker (student selection), American International School Lusaka	2020
Coached secondary STEM team (AIS Lusaka)	2015-2020
Led STEM (Science, Technology, Engineering, Mathematics) team to regional 3-day competitions.	
Complete curriculum overhaul (AIS Lusaka)	
Brought coherency and consistency to MYP content curriculum by leading adoption of Common Core State Standards (CCSS) from grades 6-10 to prepare students for DP mathematics.	
Other Activities and Accomplishments	
AIS Vienna: Initiated review of calculator policy, developed 4-year transition plan, Launched high school robotics program, Coached junior math team; WBAIS Israel: Established peer-to-peer after-school tutoring; QSI Bratislava: Developed MathCOUNTS after-school activity.	

TECHNOLOGY SKILLS

ManageBac, Google Classroom, GeoGebra, Desmos, Moodle, Blackboard, SmartBoard, BlackBaud, Beacon, GradeQuick/APWeb, TeacherPlus, flipped classroom, Atlas Curriculum Mapping, Powerschool, ClassDojo, and more.	
Expert integrator of technology to improve student learning, authoring custom activities as needed.	

INTERESTS & ACTIVITIES

Hobbies: Mountain biking, rock climbing, mountaineering, backcountry skiing, traveling.	
Visited 45+ countries on 6 continents.	
Languages: English (native), Slovak (elementary), Spanish (elementary), German (elementary).	