

# Michael Ritchot

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## SUMMARY

Future-focused educator and technology coach with over 10 years of international school experience, specializing in emergent technology integration, digital learning ecosystems, and professional development. Designed and evaluated an asynchronous e-learning module on language processing in large language models (LLMs), improving secondary student assessment scores by 28% compared to pre-assessment through a Design-Based Research methodology to advance K-12 AI literacy instruction. Proven track record of implementing scalable technology solutions that enhance collaboration, transparency, and institutional knowledge retention. Experienced in constructing interdisciplinary, inquiry-driven learning experiences grounded in both constructionist and behaviorist approaches. Recognized for leading digital transformation initiatives, designing new course offerings, and empowering staff through targeted training. Committed to purposeful technology integration, collaboration, and the continuous evolution of teaching and learning.

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## EXPERIENCE

### MYP Design Teacher

**Stamford American International School Singapore**

**July 2025 - Present, Singapore**

- Redesigned the MYP Design e-journal system, embedding generative AI tools such as NotebookLM, Gemini Custom Gems, and Flint to support ethical prototyping, instructional scaffolds, and EAL vocabulary scaffolds. This focus on instructional design and high-impact teaching strategies improved clarity, with student feedback indicating increased engagement in self-directed documentation and improved access to instructional materials.
- Contributed to curriculum review and vertical alignment under the Enhanced MYP framework, executing technical units in Open Source Robotics, Scaled Architecture, and 3D Modelling, that meet strict Cognita and IB expectations for industry-relevant skill building and unit documentation.
- Applied data-informed teaching using formative assessments, process journals, and a post-unit survey system to guide differentiation and unit revision. This rigorous approach cultivated a high-performance culture, evidenced by a 95% "Encourages Perseverance" score on the 2026 Voice of the Student Survey.
- Engineered a streamlined back-end reporting architecture for the Design department to solve reporting cohesion and inefficiency. The system became widely adopted by peers, significantly reducing administrative overhead during reporting cycles.

### Mathematics and Computer Science Teacher, Emergent Technology Coach

**TIS Macao**

**August 2020 - July 2025, Macao SAR, China**

- Taught Grade 8 - 9 Mathematics and Grade 10 - 12 Computer Science, following Alberta Ministry of Education and IB standards, achieving standardized scores 11-17% above the assessment average.
- Developed 13 interdisciplinary MYP investigations for Grades 8 and 9, including designing task-specific assessment rubrics based on MYP Mathematics Criteria, and training on the usage of generative AI tools to assist with rubric creation.
- Developed and revised internal assessments for Grades 7 through 9 (MYP 2 through 4), including blueprint maps and mark schemes. Ensured assessments aligned with MYP Mathematics command terms, IB MYP content benchmarks, and the Alberta program of studies for a thorough and standardized evaluation process. Assessment data analysis confirmed internal grading aligned within 5% of external benchmarks.
- Led professional development workshops on Google Workspace productivity strategies, Generative AI, and VR/AR, which received widely positive feedback and resulted in self-reported workload improvements and stress reduction among participants, and provided new avenues for authentic emergent technology use for learning.
- Consolidated and reorganized Secondary Mathematics resources, creating comprehensive informational documentation. This initiative enhanced both synchronous and asynchronous collaboration among teachers, improved transparency between grade levels, and provided a structured repository for resource continuity. These enhancements resulted in better internal benchmark tracking and improved retention of institutional knowledge, ultimately implemented across all of Secondary.

- Expanded a Mathematics competition program that provided further avenues for Mathematical learning, resulting in a 35% increase in participation over two years, with students earning accolades, recognition, and prizes.

## **Sciences and Literary Studies Teacher, Technology Coordinator and Coach**

**Shanghai Nanyang Model Private High School (CINEC)**

**August 2018 – July 2020, Shanghai, China**

- Piloted and designed courses in Grade 12 Environmental Sciences, Grade 11 Life Sciences, and Grade 10 – 11 Literary Studies, following British Columbia Ministry of Education and IB standards.
- Led the feasibility study and full-scale implementation of Schoology, a school-wide LMS that centralized academic reporting, course delivery and improved communication between teachers, students, parents, and other stakeholders.
- Led professional development sessions on educational technology tools to improve teaching and learning based on upcoming research and integrative reviews.

## **Mathematics, Computer Science, Sciences, and Physical Education Teacher**

**SIS Canada**

**August 2016 – July 2018, Sokcho, South Korea**

- Taught and designed courses in Grade 7 – 9 Mathematics, Computer Science, Sciences, and Physical Education, following British Columbia Ministry of Education standards.
- Designed STEM-focused curriculum for Grades 7–9 while establishing student-led digital media initiatives, including a video editing tech club and a social media marketing committee.

## **Mathematics Teacher**

**Canadian International Academy Shanghai**

**August 2015 – July 2016, Shanghai, China**

- Taught and designed courses in Grade 10 – 12 Mathematics, following Ontario Ministry of Education Curriculum standards.

## **Youth Facilitator**

**Action for Healthy Communities**

**June 2015 – July 2015, Edmonton, Alberta, Canada**

- Assisted in activities and acted as a mentor for new immigrant and refugee youth providing programs in visual and performing arts, field trips, career exploration, life skills, outdoor/wilderness activities, and developing English language skills.

## **Operations Admin**

**TForce**

**September 2010 – February 2015, Edmonton, Alberta**

- Developed a new cost analysis system for the Edmonton branch, which gained nationwide implementation due to its effectiveness in cost savings, ease of transference between branches, and adaptability to individual branch needs.
- Liaised between various branches and shipping companies to resolve shipping and payment disputes.
- Performed various administrative duties such as maintaining and recording audited accounts, broker invoices, payroll, and created cost analysis reports.

## **Office Clerk**

**Department of National Defence**

**June 2009 – August 2010, Edmonton, Alberta, Canada**

- Performed a variety of duties, including implementing the National Household Removal Services contract, mediating disputes between clients and agents, preparing briefings to educate clients on their contracted rights, and entering payroll transactions.

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## **EDUCATION**

### **M.Ed. in Education Technology & Instructional Design**

**Western Governors University • Salt Lake City, UT • 2025**

- Received the Excellence Award in Learning Experience Design, a distinction granted to the top 1–2% of graduate students for outstanding academic and project performance.
- Designed and evaluated an asynchronous e-learning module on language processing in large language models (LLMs), with a focus on tokenization, improving secondary student assessment scores by 28% compared to pre-assessments; derived actionable design principles using a Design-Based Research methodology to advance K–12 AI literacy instruction.

### **Bachelor of Education**

**University of Alberta • Alberta, Canada • 2015**

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## CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

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### Alberta Ministry of Education Professional Certificate

Alberta, Canada • 2023

### British Columbia Ministry of Education Professional Certificate of Qualification

British Columbia, Canada • 2016

### MYP Mathematics Category 1

International Baccalaureate Online Professional Development • 2022

### Google Certified Educator Level 1 and 2

Google for Education • 2024

### Apple Certified Teacher

Apple • 2024

### Gemini Certified Educator

Google • 2025

### Google AI Essentials

Google • 2024

### AI Fluency: Framework & Foundations

Anthropic • 2025

### Teaching the AI Fluency Framework

Anthropic • 2025

### AI Fluency for Educators

Anthropic • 2025

### AI Fluency for Nonprofits

Anthropic • 2025

### Foundations for Teachers

OpenAI • 2025

### Google Data Analytics Professional Certificate

Coursera/Google • 2024

### Google Project Management Certificate

Coursera/Google • 2024

### Human Subjects Research SBE Comprehensive

CITI Program • 2025

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