Edgar Völker

Physics & Chemistry Educator | PhD | IB/AP Certified | Dept. Leader

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# Professional Summary

Experienced international physics and chemistry teacher with over two decades of teaching, tutoring, and scientific research. PhD in Physical Chemistry with leadership experience as Head of Science and IB Examiner. Proven excellence in IB DP, MYP, IGCSE, AP, and NGSS-aligned programs across Argentina, Germany, South Korea, and more.

# Core Competencies

• IB DP, MYP, AP, and IGCSE Curriculum Expertise  
• Team Leadership and Department Coordination  
• Curriculum Development (UbD, NGSS)  
• Educational Technology Integration  
• University-level Physics Instruction (TA)  
• Private Science and Math Tutoring  
• Google Classroom, ManageBac, PowerSchool  
• Science Communication and Research Presentation  
• Examiner: IB DP Physics IA and Paper 2 HL  
• Multilingual: Spanish, English, Italian, Korean

# Key Achievements & Strengths

• Global Teaching Impact: Taught in Argentina, Germany, and South Korea, bringing cultural insight and pedagogical diversity.  
• Leadership: Head of Science (2020–2022) overseeing 8 teachers; led committees and managed departmental budgets and reports.  
• Scientific Research: 8 peer-reviewed publications and international conference participation.  
• Pedagogical Innovation: Revamped all science curricula using Understanding by Design (UbD).

# Certifications

• Google Certified Educator Level 1 – Valid through August 2024  
• Teaching Certification – Instituto San Ambrosio, Argentina (2016)

# Professional Experience

* Physics Teacher  
  2023 – Present — Northlands School, Argentina
* Chemistry Teacher  
  2022 – 2023 — Berlin Brandenburg International School, Germany
* Head of Science / Chemistry & Physics Teacher  
  2017 – 2022 — St. Johnsbury Academy Jeju, South Korea
* Physics & Chemistry Teacher  
  2014 – 2017 — Northlands School, Argentina
* Physics Teacher  
  2007–2010 & 2012–2017 — Villa Devoto School, Argentina

# Consulting History

* Private Tutor: Physics, Chemistry, Mathematics  
  2022 – Present — Online
* IB Physics & Math Teacher  
  2013 — Colegio Tarbut, Argentina
* Physics Teaching Assistant  
  1998 – 2008 — Universidad de Buenos Aires
* Scientific Researcher  
  2006 – 2013 — UBA & University of Liverpool
* IB Physics Examiner  
  2018 – Present — External examiner for IA & Paper 2 HL
* Workshop Facilitator – IB DP Physics & EE  
  2014, 2016, 2023 — Buenos Aires, Argentina
* AP Chemistry Subject Training  
  2017 — Vermont, USA

# Education

* MA in Educational Institutions Leadership, Universidad Austral, Argentina — 2024 (in progress)
* PhD in Physical Chemistry, Universidad de Buenos Aires & University of Liverpool — 2013
* Licentiate in Physics, Universidad de Buenos Aires — 2006