

Dr. Mona Jafarnejad

Science Teacher

PhD in Civil and Environmental Engineering

University Lecturer

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Swiss Work Permit C



EDUCATION

2021-2022	PGCE (International) IBctI	Durham University & International School of Geneva <i>Post Graduate Certificate in Education</i>
2011-2016	Ph.D. in Civil and Environmental Engineering	École Polytechnique Fédérale de Lausanne (EPFL) <i>Fluid Mechanics and River Engineering</i>
2003-2005	M.Sc. in Environmental Engineering	University of Tehran, Tehran, Iran <i>Water Quality Monitoring Network Design</i>
1997-2003	B.Sc. in Civil engineering	University of Tehran, Tehran, Iran

TEACHING & TRAINING EXPERIENCES

2023-2024 Aug – Jul	International School of Geneva (Ecolint, Campus des Nations) , Geneva, Switzerland <i>Planning, teaching and assessing:</i> <ul style="list-style-type: none">• Physics Year 11, MYP• Science, Year 7, 8, and 9, MYP
2022-2023 Aug – Jul	International School of Geneva (Ecolint, La Châtaigneraie) , Founex, Switzerland <ul style="list-style-type: none">• Replacement teacher for secondary school (100%), DP, MYP, IGCSE
2022 PGCE training Feb - May	La Côte International School , Aubonne, Switzerland <ul style="list-style-type: none">• Physics, Standard and Higher level Year 12, DP• Science Year 8, MYP• Physics Year 9, 10, and 11, IGCSE
2021 PGCE training Oct - Nov	International School of Lausanne (ISL) , Lausanne, Switzerland <ul style="list-style-type: none">• Diploma-Physics, Standard and Higher level Year 12, DP• Science, Year 7, MYP
2017-2024	Lecturer at University of Tehran, Faculty of Management , Tehran, Iran The online Master course in “ Environmental Planning and Management ”
2018-2020	Teacher (volunteer) at École Parsayan , Lausanne and Zurich, Switzerland <ul style="list-style-type: none">• Structured a program for teaching the Persian Language to children 4-10Y
2011-2018	Teacher Assistant at École Polytechnique Fédérale de Lausanne , Switzerland <ul style="list-style-type: none">• TA for Hydraulic Constructions and River Engineering - Master of Science• Trained new PhD/ Master students to conduct experiments at LCH

ADDITIONAL PROFESSIONAL WORK HISTORY

2017 – 2018	Postdoctoral Researcher at EPFL, Laboratory of Hydraulic Constructions
2011 – 2015	Experimental Research Assistant at EPFL, Laboratory of Hydraulic Construction
2005 – 2011	Environmental Senior Expert and Head of Environmental Office at National Iranian Oil refining and Distribution Company (NIORDC), Tehran, Iran

CERTIFICATIONS AND COURSES

IB Certificate in DP Physics Category 2	2-4 Feb 2024
	<i>International baccalaureate Organization (IBO)</i>
IB Certificate in Teaching and Learning for DP	2022
	<i>International baccalaureate Organization (IBO)</i>
Google Educator Level 1 Certificate	2024
Teacher Training Course in teaching Persian to non-Persian students	2018
100 hours of intensive course of TTC	<i>Tehran International and adaptive school, Tehran, Iran</i>
Project Management Professional (PMP)	2016
Based on PMI, GDPM, IPMA and Scrum (agile)	<i>BNF, Bern, Switzerland</i>
Environmental Fluid Mechanics	2012
Doctoral summer school	<i>EAWAG, Horw, Switzerland</i>
Energy Efficiency	2008
	<i>Asian Productivity Organization, Tehran, Iran</i>
Environmental Safety and Risk Management	2007
Intensive 30 days training of Safety and Environmental Risk Assessment	<i>VDSI (Association of German Safety Engineers) Heidelberg, Germany</i>

MAIN PUBLICATIONS

- Jafarnejad, M., Franca, M. J., Pfister, M., & Schleiss, A. J. (2019). **Design of Riverbank Riprap Using Large, Individually Placed Blocks.** *Journal of Hydraulic Engineering, ASCE*, 145(12), 224–235.
- Jafarnejad, M., Franca, M. J., Pfister, M., & Schleiss, A. J. (2019). **Effect of a second layer on the time to failure of compressed riprap as mountain riverbank.** *Journal of Hydraulic Research*, 57(4), 573-578.
- Jafarnejad, M., Pfister, M., Brühwiler, E., & Schleiss, A. J. (2017). **Probabilistic failure analysis of riprap as riverbank protection under flood uncertainties.** *Stochastic Environmental Research and Risk Assessment, Springer*, 31, 1839.
- Jafarnejad, M., Franca, M. J., Pfister, M., & Schleiss, A. J. (2017). **Time-based failure analysis of compressed riverbank riprap.** *Journal of Hydraulic Research*, 55(2), 224–235.

LANGUAGES

Persian	Native language	English	Advanced C1	French	Appropriate B2
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REFERENCES

Mrs. Soraya Sayed Hassen

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International School of Geneva (La Châtaigneraie)
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Mr. Jamie Williams

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International School of Geneva (Campus des Nations)
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