

# Dr. Mona Jafarnejad

## Mathematics Teacher

PhD in Civil and Environmental Engineering

University Lecturer

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Swiss Work Permit C



## EDUCATION

2021-2022	PGCE (International) IBctl	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

2024-2025 Part-time Aug – Jul	<b>International School of Geneva (Campus des Nations)</b> , Geneva, Switzerland Planning, teaching and assessing: <ul style="list-style-type: none"><li>• Mathematics: Analysis and Approaches, Standard Level Year 13, IBDP</li><li>• Mathematics: Applications and Interpretations, Standard Level Year 12, IBDP</li><li>• Mathematics, Year 8, 10 (Standard) and 11 (Extended), MYP</li></ul>
2023-2024 Part-time Aug – Jul	<b>International School of Geneva (Campus des Nations)</b> , Geneva, Switzerland Planning, teaching and assessing: <ul style="list-style-type: none"><li>• Physics, Year 11, MYP</li><li>• Science, Year 7, 8 and 9, MYP</li></ul>
2022-2023 Full-time Aug – Jul	<b>International School of Geneva (Ecolint, La Châtaigneraie)</b> , Founex, Switzerland <ul style="list-style-type: none"><li>• Replacement teacher for secondary school (100%), DP, MYP, and IGCSE</li></ul>
2022 PGCE training Feb - May	<b>La Côte International School</b> , Aubonne, Switzerland Planning, teaching and assessing: <ul style="list-style-type: none"><li>• Year 8 MYP, Year 9, 10 and 11 IGCSE, and Year 12 IBDP</li></ul>
2021 PGCE training Oct - Nov	<b>International School of Lausanne (ISL)</b> , Lausanne, Switzerland Planning, teaching and assessing: <ul style="list-style-type: none"><li>• Year 7 MYP, and Year 12 IBDP</li></ul>
2017-2024 Part-time	<b>Lecturing at the University of Tehran, Faculty of Management</b> , Tehran, Iran Master course in “Environmental Planning and Management” online
2018-2020 Part-time	<b>Teacher (volunteer) at École Parsayan</b> , Lausanne and Zurich, Switzerland <ul style="list-style-type: none"><li>• Structured a program for teaching the Persian Language to children 4-10Y</li><li>• Prepared course material and maintained classrooms for class activities</li></ul>
2011-2018 Full-time	<b>Teacher Assistant at École Polytechnique Fédérale de Lausanne</b> , Switzerland <ul style="list-style-type: none"><li>• TA for Hydraulic Constructions and River Engineering - Master of Science</li><li>• Trained new PhD/ Master students to conduct experiments at LCH</li></ul>

## ADDITIONAL PROFESSIONAL WORK HISTORY

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

## CERTIFICATIONS AND COURSES

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IBDP CAT1 Certificate in DP Mathematics: Analysis and Approaches	2024
	<i>International baccalaureate Organization (IBO)</i>
IBDP CAT2 Certificate in DP Physics	2024
	<i>International baccalaureate Organization (IBO)</i>
IB Certificate in Teaching and Learning for DP	2021- 2022
	<i>International baccalaureate Organization (IBO)</i>
Teacher Training Course in teaching Persian to non-Persian students	201 -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>

## MAIN PUBLICATIONS

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- 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

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<b>Persian</b>	Native language	<b>English</b>	Advanced C2	<b>French</b>	Appropriate B1-2
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## REFERENCES

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### Mr. Nunana Nyomi

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International School of Geneva  
(Campus des Nations)  
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### Mr. Thomas Riis Johannessen

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International School of Geneva  
(Campus des Nations)  
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### Prof. Anton Schleiss

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Lausanne (EPFL)  
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