

Ahmad Shakibaeinia, *Ph.D., P.Eng.*
Canada Research Chair, Associate Professor

Department of Civil, Geological & Mining Engineering, Polytechnique Montreal
2500 chemin de Polytechnique, Montreal, QC, Canada, H3T 1J4
(514) 340-4711 Ext. 3927
ahmad.shakibaeinia@polymtl.ca
<https://www.polymtl.ca/expertises/en/shakibaeinia-ahmad>

Appointments	Associate Professor Polytechnique Montreal, Dept. Civil, Geological & Mining Eng.	2020–present
	Canada Research Chair in Modelling Complex Hydro-environmental Systems	2018–present
	Assistant Professor Polytechnique Montreal, Dept. Civil, Geological & Mining Eng.	2016–2020
	Postdoctoral Fellow , Environment Canada/ University of Victoria	2013–2016
	Water Resources Engineer , SNC–Lavalin	2012–2013
	Research & Teaching Assistant , University of Regina	2007–2012

Education	Ph.D., Environmental Systems Eng. , University of Regina (Canada)	2007–2011
	M.Sc., Civil Engineering , Amirkabir University of Technology (Iran)	2004–2006
	B.Sc., Water and Irrigation Engineering University of Kerman (Iran)	2000–2004

Research Interests & Specialities	• Computational hydraulics & fluid mechanics : focus on mesh-free Lagrangian methods and high-performance computing
	• Multiphase flows : focus on multiphase granular and sediment-water two-phase flow and air-water interaction
	• Environmental hydraulics & fluid mechanics : hydrodynamic, sediment dynamic, fluid-structure interaction, water quality, ice dynamic and climate change impact in fluvial & coastal environments

Honors, Awards, Scholarships, Fellowships	• Canada Research Chair, 2018 (Title given by the Canada Research Chairs Program to attract and retain some of the world’s most accomplished and promising minds)
	• Thomas C. Keefer Medal, Canadian Society for Civil Engineering (CSCE), 2013.
	• Editors’ Choice - Canadian Journal of Civil Engineering - September 2013.
	• NSERC Visiting Fellowship in Canadian Government Labs, 2013-2016.
	• Dean’s Scholarship, University of Regina, 2009, 2010.

Services & scholarly Activities	Peer review activities
	• Editorship : Guest Editor, <i>Journal: Water, Special Issue on Computational Fluid Mechanics and Hydraulics, 2020-2021.</i>
	• Journal review : <i>Computers & Fluids; Advances in Water Resources; Fluid Dynamics Research; International Journal of Water Resources & Environmental Engineering; Stochastic Environmental Research & Risk Assessment; Numerical Heat Transfer; PlosOne; Environmental Science & Pollution Research; Journal of Fluids & Structures; Journal of Waterway, Port, Coastal, & Ocean Engineering; Cluster Computing; International Journal for Numerical Methods in Fluids.</i>
	• Conference review : <i>AGU 2015; IEMSS 2014; Shallow Flows 2012; IHA Conf. 2005, 2007</i>

- **Grant review:** MITCS Elevate 2018, 2019; NSERC Discovery Grant 2019; NSERC Alliance Grant 2020;

Conference organization:

- Member of Scientific and organizing Committee of the Canadian Water Resources Association (CWRA) Conference 2021.
- Organizer and Chair, 14th U.S. National Congress on Computational Mechanics (USNCCM14), 2017, Minisymposium: *Advances in Meshfree Particle Methods for Fluid*
- Convener and Session Chair, AGU Fall Meeting 2015, Session: *Advances in Numerical Methods for Geophysical Flows*

Networks & working groups membership:

- Intersectorial Flood Network of Quebec (RIISQ)
- Institut nordique du Québec (INQ),
- Centre d'études interuniversitaire des structures sous charges extrêmes (CEISCE).
- Northern Engineering Centre (CINEP), Polytechnique Montreal

Organizations membership:

- International Association for Hydro-Environment Engineering and Research (IAHR)
- American Society of Civil Engineers (ASCE) and Coasts, Oceans, Ports & Rivers Institute (COPRI)
- SPHERIC - SPH European Research Community
- International Environmental Modelling & Software Society (iEMSs)
- Ordre des ingénieurs du Québec

Services to Affiliated University

- Committee Member, Civil Engineering Program Committee, Polytechnique Montreal
- Board member, Association des professeurs de l'École Polytechnique de Montréal

Supervision & Training:

- **In-progress:** Postdoctoral fellow (1), Doctoral. (4), Master's (4), Intern (1)
- **Completed:** Doctoral (4), Master's (5), Intern (6)

Teaching Experiences

- Polytechnique Montreal (2017-present): *Mecanique des fluides (CIV2310), Advanced Computational Hydrosystems (CIV6318).*
- University of Victoria (2015-2016): *Hydraulics & Hydrology (Cive 440), Hydraulic Modelling (Geog 591).*
- Global Innovation Campus (GIC)(2012-2015): *Hydraulic engineering (98-Civ-A5), Mechanics of fluids (04-BS-7), Engineering hydrology (98-Civ-B4).*

Publications

- **Refereed Journals:** 33
- **Conferences Proc.:** 30
- **Citation:** 820, **H-index:** 13
- **Publication list:** <https://scholar.google.ca/>