



Babol Noshirvani University of Technology
Faculty of Civil Engineering
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Curriculum Vitae Mehdi Hamidi

• PERSONAL INFORMATION

Family name, First name: Hamidi, Mehdi
Researcher unique identifier(s): <https://orcid.org/0000-0002-7376-3303>
Date of birth: 18.06.1981
Nationality: Iranian
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URL for LinkedIn: <https://www.linkedin.com/in/mehdi-hamidi-45871844/>

• EDUCATION

2008-2013: Civil (Water) Engineering, PhD, Khaje Nasir Toosi University of Technology (KNTUT), Tehran, Iran. Thesis Title: Numerical Modeling of Dust Events in the Middle East.
2002-2005: Civil (Hydraulic Structure) Engineering, Master of Science, Khaje Nasir Toosi University of Technology (KNTUT), Tehran, Iran. Thesis Title: Numerical Modeling of Seawater Intrusion into Coastal Aquifers.
1998-2002: Civil Engineering, Bachelor of Science, Shiraz University, Shiraz, Iran

• CURRENT POSITION

12/2020 - present: **Associate Professor**
Faculty of Civil Engineering, Babol Noshirvani University of Technology (BNUT), Bābol, Iran

• PREVIOUS ACADEMIC POSITIONS

09/2013 – 12/2020: **Assistant Professor**
Faculty of Civil Engineering, Babol Noshirvani University of Technology, Bābol, Iran
07/2018 - 08/2018: **Visiting Professor**
Institute of Geophysics and Meteorology, University of Cologne, Cologne, Germany
09/2011 - 03/2012: **Guest Researcher**
Institute of Geophysics and Meteorology, University of Cologne, Cologne, Germany

• INSTITUTIONAL RESPONSIBILITIES

04/2021 - Present: Dean of Faculty of Civil Engineering (BNUT)
05/2017-06/2019: Head of the Department of Structural Engineering (BNUT)
05/2015-05/2017: Director of Hydraulic Lab (BNUT)

• RESEARCH INTEREST

Hydraulic, Hydrology, Atmospheric Sciences, Computational Hydraulics, Environmental Engineering, Water Resources Management, Dust and Sand Storm Simulation, Aerosol Properties, Synoptic Analysis, Climate Change Effects, Hydraulic Structures, Underground Water, Seawater Intrusion, Dam and Appurtenant Structures.

• FELLOWSHIPS AND AWARDS

2022: Civil Engineering Faculty (BNUT) Outstanding Researcher Award
2020: Civil Engineering Faculty (BNUT) Outstanding Professor Award

Dr. Mehdi Hamidi

2008: Water Engineering Ph.D. Entrance Exam First Rank Student (KNTUT)
2011: Iranian Ministry of Science, Research and Technology Scholarships
2011: Alexander von Humboldt, Prospective Leaders in Climate Protection and Resource Conservation Conference Attendance Scholarships (Invited for Short List)

• SUPERVISION OF MSC and PhD STUDENTS

2013 – 2022: More than 25 PhD/MSc Students in Babol Noshirvani University of Technology.

• TEACHING ACTIVITIES

2013 – 2022: 6 courses in Babol Noshirvani University of Technology including: Hydrology, Hydrodynamics, Open Channel Hydraulics, Hydraulic Lab, Design of Hydraulic Structures, Construction of Hydraulic Structures
2008 – 2013: Adjunct Lecturer: Statics, Strengths of Materials, Structural Analysis.

• RESEARCH PROJECTS

2023 – present: Urban surface runoff management in Babol city.
2021 – 2023: Investigation of climate change effects on dust activity in Iraq using deep learning.
2019 – 2020: Numerical investigation of the effect of stilling basin length on flow energy dissipation.
2017 – 2018: Numerical modeling of flood evacuation system (spillway).

• SKILLS

Hydraulic and Hydrology: Run-off Analysis, River Restoration, Spillway Design, Water Intake Design, Bottom Outlet Design, Culvert Design, Water Conveyance System Design, Hydro Power Plant Design, Energy Dissipator Design, Scour Analysis, Bridge Hydraulic Design, and GIS Processing for Hydrology.
Atmospheric Science: Aerosol Properties Analysis, Synoptic Analysis, Numerical Simulation of Weather and Forecasting, Numerical Simulation of Dust Events, Hydrologic Responses into precipitation (Land-Surface Models), and GIS Processing.
Computational Hydraulics: CFD Modeling of Hydraulic Structures, Sediment Transport and Scour modeling, Two-phase Flow/Transport modeling; Seawater Intrusion Modeling, Contaminant Transport Modeling, and River Flow Modeling.
Climate Change: Research on Climate Change and its effects on Water Resources, Underground Water, and Dust Activity.
Software: Arc-GIS for processing Hydrologic, Land-surface, and Atmospheric Data. Flow-3D, HEC-RAS, and MODFLOW for Hydraulic and Hydrologic Analysis. WRF, WRF-Chem, and AHMS for Atmospheric and Land-surface Analysis. MATLAB, LARS-WG, AutoCAD, Microsoft Office, and etc.

• PROFESSIONAL EXPERIENCES

2016-2021: Mazandaran Regional Water Company, Sari, Iran.
Role: Technical Controller (Hydraulic and Water resources).
Projects: Hydraulic Technical Control of Haraz Dam Spillway (2019).
Hydraulic Technical Control of Haraz water conveyance network (2016).
Hydraulic Technical Control of SajadRud Dam Appurtenant Structures (2017).
2013-2015: Zistab Consulting Engineers Company, Tehran, Iran.
Role: Hydraulic Structures Designer.
Projects: Hydraulic Design of Karoon-1 Dam Spillway Height Increase Project (2013).
Hydraulic Design of Karam-Abad Dam Appurtenant Structures (2015).
Hydraulic Design of Gorgak Dam Appurtenant Structures (2015).
Hydraulic Design of Ghezel-Dagh Dam Appurtenant Structures (2014).
Hydraulic Design of Varzaghan Dam Appurtenant Structures (2014).
Hydraulic Design of Ghalachohgeh Dam Appurtenant Structures (2014).
Hydraulic Design of Shadaleh Dam Appurtenant Structures (2014).
Hydraulic Design of Aras to Urmia Lake Water Conveyance System (2014).
2008-2013: Lar Consulting Engineers Company, Tehran, Iran.
Role: Management of Dam Design Project, Hydraulic Structures Designer, River

Engineering expert, Engineering Economics Expert.

Projects: Management of Kalat Dam Design Group (2010).

Technical Management of Babol City Urban Water Project (2013).

Hydraulic Design of Chaili (Atrak) Dam Appurtenant Structures (2009).

Hydraulic Design of Parsian Dam Appurtenant Structures (2010).

Hydraulic Design of Haj-Ghalandar Dam Appurtenant Structures (2008).

Hydraulic Design of Kalat Dam Appurtenant Structures (2011).

Engineering Economics Expert of Mamloo Dam Project (2010).

Engineering Economics Expert of Kalat Dam Project (2013).

Engineering Economics Expert of Haj-Ghalandar Dam Project (2011).

Hydraulic Investigation of Shahr-e-Kord River Restoration Project (2013).

2004-2006:

Tehran Regional Water Company, Tehran, Iran.

Role: Civil Engineering Expert, Technical controller of Hydraulic structures projects

Projects: Member of Hydraulic Technical Control Group for Kamal-Saleh Dam, Ghahan, Dam, Water Conveyance System from Kine-Vars Dam to Abhar City, Artificial Groundwater Recharge of Hasht-gerd and Ivanekey Plain (2004-2006).

- **ORGANISATION OF SCIENTIFIC MEETINGS**

2014:

Member of Organization Team, 8th National Congress on Civil Engineering Babol Noshirvani University of Technology, Babol, Iran

- **REVIEWING ACTIVITIES**

Referee for Journals:

Journal of Geophysical Research, Applied Water Science, Aeolian Research, Hydrogeology Journal, Climate Dynamics, Atmosphere, Annals of Geophysics, Sustainability, Theoretical and Applied Climatology, Environmental Processes, Environmental Science and Pollution Research, International Journal of Remote Sensing, Journal of Hydraulic, Journal of Earth System Science, International Journal of Modern Physics, and etc.

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2006:

Construction Engineering Organization, Iran

2019:

Iranian Flood Investigation Committee, Iran

- **MAJOR COLLABORATIONS**

Prof. Dr. Yaping Shao, Institute of Geophysics and Meteorology, University of Cologne, Cologne, Germany.

Prof. Dr. Mohammad Reza Kavianpour, Faculty of Civil Engineering, Khaje Nasir Toosi University of Technology (Head of Iran Water Research Institute), Tehran, Iran.

Prof. Dr. Saeed Reza Sabbagh Yazdi, Faculty of Civil Engineering, Khaje Nasir Toosi University of Technology, Tehran, Iran.