

Mahdi Razaz

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Professional Preparation

- 2007-2010 PhD in Civil and Environmental Engineering, Hiroshima University, Hiroshima, Japan
- 2003-2006 Master in Hydraulic Structures, Ferdowsi University, Mashhad, Khorasan, Iran
- 1998-2003 Master in Hydraulic Structures, Ferdowsi University, Mashhad, Khorasan, Iran

Appointments

- 2016-Present Postdoc Fellow, Department of Marine Sciences, University of Georgia, Athens. GA, USA
- 2014-2016 Postdoc Fellow, Department of Physical Oceanography, Memorial University of Newfoundland, St. John's, NF, Canada
- 2012-2014 Japan Society for the Promotion of Science Carrier, Graduate School of Engineering, Hiroshima University, Higashi-Hiroshima, Hiroshima, Japan
- 2010-2012 Researcher, Graduate School of Engineering, Hiroshima University, Higashi-Hiroshima, Hiroshima, Japan
- 2012 Visiting Researcher, Department of Civil Engineering, University of Ottawa, Ottawa, ON, Canada

Research Supports, Scholarships

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| 2012-2014 | River Maintenance Fund, Foundation of River & Watershed Environment Management | 10,000 USD |
| 2012-2014 | Japan Society for Promotion of the Science (JSPS) Fellowship | 90,000 |
| 2012-2014 | Grant-in-Aid for Scientific Research (JSPS) | 15,000 |
| 2012-2014 | Grant-in-Aid for Young Scientists (Kakenhi-B), (JSPS) | 50,000 |
| 2012 | Young Researcher Overseas Dispatch | 7,500 |
| 2012 | Young Researcher Overseas Dispatch | 3,000 |
| 2010 | Young Researcher Overseas Dispatch | 3,000 |
| 2007-2010 | Monbukagakusho, Ministry of Education, Culture, Sports, Science and Technology of Japan | 60,000 |
| 2005-2006 | Grant for MSc Thesis, Khorasan Water and Wastewater Company | 5,000 |

Recent Publications

- 2016 **Razaz, M.**, L. Zedel, A. Hay, K. Kawanisi, Monitoring tidal currents in a well-mixed, narrow strait using a time-of-travel instrument (Under review *Journal of Geophysical Research: Oceans*).
- 2015 **Razaz, M.**, K. Kawanisi, A. Kaneko, and I. Nistor, Application of Acoustic Tomography to Reconstruct Horizontal Flow Velocity Field in a Shallow River, *Water Resource Research*, 51(12), 9665-9678, doi: 10.1002/2015WR017102.
- 2014 **Razaz, M.**, K. Kawanisi, and I. Nistor, Tide-driven controls on maximum near-bed floc size in a tidal estuary, *Journal of Hydro-environment Research*, 9(3), 465-471, doi: 10.1016/j.jher.2014.04.001.
- 2013 **Razaz, M.**, K. Kawanisi, I. Nistor, and S. Sharifi, An acoustic travel time method for continuous velocity monitoring in shallow tidal streams, *Water Resources Research*, 49(8), 4885-4899, doi: 10.1002/wrcr.20375, 2013.

- 2013 Kawanisi, K., **M. Razaz**, J. Yano, and K. Ishikawa, Continuous monitoring of a dam flush in a shallow river using two crossing ultrasonic transmission lines, *Measurement Science and Technology*, 24(5), 055303, doi: 10.1088/0957-0233/24/5/055303.
- 2012 **Razaz, M.**, and K. Kawanisi, Turbulence characteristics in the bottom layer of a shallow tidal channel, *Journal of Turbulence*, 13, N52, doi: 10.1080/14685248.2012.741322.
- 2012 Kawanisi, K., **M. Razaz**, K. Ishikawa, J. Yano, and M. Soltaniasl, Continuous measurements of flow rate in a shallow gravel-bed river by a new acoustic system, *Water Resource Research*, 48, doi: 10.1029/2012WR012064.
- 2011 **Razaz, M.**, and K. Kawanisi, Signal post-processing for acoustic velocimeters: Detecting and replacing spikes, *Measurement Science and Technology*, 22, 125404, doi: 10.1088/0957-0233/22/12/125404.
- 2010 Kawanisi, K., **M. Razaz**, A. Kaneko, and S. Watanabe, Long-term measurements of stream flow and salinity in a tidal river by the use of the fluvial acoustic tomography system, *Journal of Hydrology*, 380(1-2), 74-81, doi: 10.1016/j.jhydrol.2009.10.024.

Synergistic Activities

Reviewer for:

Coastal Engineering Journal (World Scientific)
 Journal of Hydraulic Engineering (ASCE)
 Estuarine, Coastal and Shelf Science
 Hydrological Research Letters

Professional Memberships:

2016-Present Canadian Meteorological and Oceanographic Society
 2014-Present Canadian Society for Civil Engineering
 2007-2014 Japan Society of Civil Engineers

Courses Taught:

Estuarine and Coastal Measurements - CVG6309
 Developed and taught at the Department of Civil Engineering, University of Ottawa

Mixing and Transport in River - CVLE4140
 Co-teaching College of Engineering, University of Georgia

Programming with Mathematica, Field instrumentation
 Developed and taught at the Department of Civil and Environmental Engineering, Hiroshima University

Graduate Thesis Co-advising:

K. Ishikawa and J. Yano (Hiroshima University)

Undergraduate Thesis Co-advising:

J. Kagami, K. Takase, T. Naki, T. Kawamura, K. Ishikawa, J. Yano, M. Ikeda (Hiroshima University)

Service:

Vice-chair and presenter at “Shallow Acoustic Tomography and its Applications in Rivers and Coastal Waters” workshop, Hiroshima University (2014).

Collaborators and other affiliations

I. Nistor (uOttawa, Canada), L. Zedel (MUN, Canada), A. Hay (Dalhousie Univ., Canada), A. Kaneko (Hiroshima Univ., Japan), K. Kawanisi (Hiroshima Univ., Japan), N. Taniguchi (Taiwan National Univ., Taiwan), X.H. Zhu (Second Institute of Oceanography, China), S. Sharifi (Birmingham Univ., UK)