

CURRICULUM VITAE

Majid Shah-Hosseini (PhD)

Place of Birth: Tehran-Iran

Languages: English, French

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Qualifications

2014: PhD in coastal geomorphology (physical geography), Aix-Marseille University, CEREGE-CNRS, Aix-en-Provence, France.

Supervisors: Christophe Morhange and Edward Anthony

2003: Master's degree in Sedimentology and sedimentary petrology, University of Tehran, Tehran, Iran

1999: Bachelor of Science in Geology, University of Tehran, Tehran, Iran

Research Fellowships

2017: Postdoctoral research Fellowship in Kharazmi University funded by Iran's National Elites Foundation. Subject: effects of global sea level rise on the Iranian coast of Makran.

2016: Postdoctoral research Fellowship in the University of New South Wales (UNSW) Sydney-Australia funded by Australian Government (Endeavour program). Subject: investigation of the tsunami threat posed by the Puysegur subduction zone to South East Australia

2015: Postdoctoral research Fellowship in Johannes Gutenberg University Mainz-Germany and University of Cologne-Germany. Funded by German Academic Exchange Agency (DAAD). Subject: Records of past extreme events in Ancient harbours and application of Optically Stimulated Luminescence (OSL).

Research Employments

2019- : assistant professor, Tarbiat Modares University, Tehran, Iran

2010-2014: Research engineer in sedimentology and geochemistry laboratories of CEREGE, French National Center for Scientific Research (CNRS), Aix-en-Provence, France

2004-2009: Research engineer and director of Marine Geology lab, Iranian National Institute for Oceanography and Atmospheric Sciences (INIOAS), Tehran-Iran

International Research Projects

2016-2017: Joint France-Iran research program "PHC Gundishapur", funded by Campus France and CISSC-Iran. Project title: marine geoarchaeological study of the Persian Gulf: human society response to environmental change and natural hazards in Siraf.

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2015-2016: Joint France-Germany research program “PHC PROCOPE” between CEREGE and institute for Geography, Cologne University. Project title: Geological and archaeological signatures of extreme wave events in ancient harbours: tsunamis vs. extreme storms.

2012-2013: Joint France-Iran research program “PHC Gundishapur”, funded by Campus France and CISSC-Iran. Project title: finding synchronicity of the Caspian Sea level changes with the Holocene climatic variations: model for global sea level change.

2010-2011: International program for Assessment and awareness of Makran tsunami hazards (Gulf of Oman and northern Arabian Sea), Iranian National Institute for Oceanography and Atmospheric Science (INIOAS) and Intergovernmental oceanographic commission (IOC-UNESCO).

2010-2011: Joint France-Iran research program “PHC Gundishapur”, funded by Campus France and CISSC-Iran. Project title: Coastal Hazard Assessment in southern coast of Iran (Gulf of Oman and Persian Gulf)

2006-2007: Joint France-Iran research program “PHC Gundishapur” funded by Campus France and CISSC-Iran. Project title: History of vegetation and climate in the Hyrcanian humid zone (North Iran) comparison with the semi-arid zone of Central Iran.

Peer Reviewed Publications

1. M. Abbasian, A. Haghshenas, M. Shah-hosseini, A. Farhangmehr, H. Rezai, A. Razavi-Arab, M. J. Risk (2023). Biodeposit dispersion around a deep cage finfish farm in the Northern Persian Gulf. *Regional Studies in Marine Science*, 63 102950
2. M. Pourkerman, N. Marriner, S. Amjadi, R. Lak, M. Hamzeh, G. Mohammadpor, H. Lahijani, M. Tavakoli, C. Morhange, **M. Shah-Hosseini** (2023) The impacts of Persian Gulf water and ocean-atmosphere interactions on tropical cyclone intensification in the Arabian Sea. *Marine Pollution Bulletin* 188 (2023) 114553
3. M. Pourkerman, N. Marriner, M. Hamzeh, H. Lahijani, C. Morhange, S. Amjadi, M. Vacchi, M. Maghsoudi, **M. Shah-Hosseini**, M. Afarin (2022) Socioeconomic impacts of environmental risks in the western Makran zone (Chabahar, Iran) *Natural Hazards*, 1-27
4. E. Ghanavati, **M. Shah-Hosseini**, N. Marriner (2021). Analysis of the Makran Coastline of Iran's Vulnerability to Global Sea-Level Rise., *Journal of Marine Science and Engineering* 9 (8), 891
5. Lahijani, H A, Abbasian, H, Naderi, M. **Shah-hosseini, M.** (2019) Sediment distribution pattern of South Caspian Sea: possible hydroclimatic implications. *Canadian Journal of Earth Sciences* DOI: 10.1139/cjes-2017-0239
6. Pourkerman, M., Marriner, N, Morhange, C ... **Shah-hosseini, M.** (2018). Tracking shoreline erosion of "at risk" coastal archaeology: the example of ancient Siraf (Iran, Persian Gulf). *Applied Geography* 101:45-55
7. Sharifi, A, **Shah-hosseini, M**, Pourmand, A. et al. (2018) The Vanishing of Urmia Lake: A Geolimnological Perspective on the Hydrological Imbalance of the World's Second Largest Hypersaline Lake. In book: *The Handbook of Environmental Chemistry*. Publisher: Springer, DOI: 10.1007/978-94-007-698-2_359
8. **Shah-hosseini, M.**, Ghanavati, E., Morhange, Ch., Naderi Beni, A., Lahijani, H., Hamzeh, M.A., (2018) The evolution of Chabahar beach ridge system in SE Iran in response to Holocene relative sea level changes *Geomorphology*, 318: 139-147.

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9. Brill, D., May, S.M., **Shah-Hosseini, M.**, Rufer, D., Schmidt, C., Engel, M, (2017): *Luminescence dating of cyclone-induced washover fans at Point Lefroy (NW Australia)*, *Quaternary Geochronology*, <http://dx.doi.org/10.1016/j.quageo.2017.03.004>
10. Piscitelli, A., Milella, M., J. C. Hippolyte, **Shah-Hosseini, M.**, Morhange, C., Mastronuzzi, G., (2016): *Numerical approach to the study of coastal boulders: the case of Martigues, Marseille, France*. *Quaternary International* <https://doi.org/10.1016/j.quaint.2016.10.042>
11. **Shah-Hosseini, M.**, Saleem, A. Morhange, C. (2016): *Coastal boulder deposits attesting to large wave impacts on the Mediterranean coast of Egypt*. *Natural Hazards*, 83:849
12. Morhange, C., Bony, G., Flaux, C., **Shah-Hosseini, M.**, (2013): *Comment on Sea level changes since the Middle Ages along the coast of the Adriatic Sea: The case of St. Nicholas Basilica, Bari, Southern Italy by Rossella Pagliarulo, Fabrizio Antonioli and Marco Anzidei*. *Quaternary International*, 303, 228–229
13. **Shah-Hosseini, M.**, Morhange, C., De Marco, A., Wante, J., Anthony, E. J., Sabatier, F., Mastronuzzi, G., Pignatelli C. and A. Piscitelli (2013): *Coastal boulders in Martigues, French Mediterranean: evidence for extreme storm waves during the Little Ice Age*. *Zeitschrift für Geomorphologie*, Supplementary Volume 57 Issue 4, p. 181 – 199
14. Naderi Beni, A, Lahijani, H, Moussavi Harami, R., Leroy, S.A.G., **Shah-Hosseini, M.**, Kabiri, K., Tavakoli, V. (2013): *Development of spit-lagoon complexes in response to Little Ice Age rapid sea-level changes in the central Guilan coast, South Caspian Sea, Iran*. *Geomorphology* 187, 11–26
15. Leroy, S. A. G., Lahijani, H. A. K., Reyss J. L., Chalié, F., Haghani, S., **Shah-Hosseini, M.**, Shahkarami, S., Tudryn, A., Arpe, K., Habibi P., Nasrollahzadeh, H. S., and Makhloogh, A. (2012): *Lingulodinium machaerophorum expansion over the last centuries in the Caspian Sea reflects global warming*. *Biogeosciences Discussion*., 9, 16663-16704
16. Rajendran, C. P., Rajendran, K., **Shah-Hosseini, M.**, Naderi Beni, A., Nautiyal C. M., Andrews, R. (2012): *The hazard potential of the western segment of the Makran subduction zone, northern Arabian Sea*. *Natural Hazards*, DOI 10.1007/s11069-012-0355-6
17. Hamzeh, M.A., **Shah-Hosseini, M.**, Naderi Beni, A. (2012): *Effect of fishing vessels on trace metal contamination in sediments of three harbours along Iranian Oman Sea coast*. *Environmental Monitoring and Assessment*, DOI 10.1007/s10661-012-2668
18. **Shah-Hosseini, M.**, Morhange, C., Naderi, A., Marriner, N., Lahijani, H., Hamzeh, M., Sabatier, F. (2011): *Coastal boulders as evidence for high-energy waves on the Iranian coast of Makran*. *Marine Geology* 290, 17–28
19. Ghaffari, P., Azizpour, J., Noranian, M., Chegini, V., Tavakoli, V. and M. **Shah-Hosseini, M.** (2011): *Estimating suspended sediment concentrations using a broadband ADCP in Mahshahr tidal channel*. *Ocean Sci. Discuss.*, 8, 1601-1630, 2011. DOI: 10.5194/osd-8-1601-2011
20. Leroy, S.A.G., Lahijani, H.A.K., Djamali, M., Naqinezhad, A., Moghadam, M.V., Arpe, K., **Shah-Hosseini, M.**, Hosseindoust, M., Miller, Ch.S., Tavakoli, V., Habibi, P., Naderi, M., (2011): *Late Little Ice Age palaeoenvironmental records from the Anzali and Amirkola Lagoons (south Caspian Sea): Vegetation and sea level changes*. *Palaeogeography, Palaeoclimatology, Palaeoecology* 302, 415–434

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21. Djamali, M., Ponel, P., Delille, T., Thiéry, A., Asem, A., Andrieu-Ponel, V., de Beaulieu, J. L., Lahijani, H., **Shah-Hosseini, M.**, Amini, A., Stevens, L. A 200,000-year record of the brine shrimp *Artemia* (Crustacea: Anostraca) remains in Lake Urmia, NW Iran. *Journal of Aquatic Science* 1, 14-18
22. Amini, A., **Shah-Hosseini, M.**, Mohammadi, A., Shahrabi, M., (2010): Sedimentological characteristics and origin of Urmia Lake along shahid-Kalantari Highway. *Scientific Quarterly Journal, Geoscience*, 19, 57-68. (In Persian).
23. Djamali M., De Beaulieu J. L., Andrieu-Ponel V., Berberian M., Miller N. F., Gandouin E., Lahijani H., **Shah-Hosseini M.**, Ponel p., Salimian M., Guiter F., (2009): A late Holocene pollen record from Lake Almalou in NW Iran: evidence for changing land-use in relation to some historical events during the last 3700 years, *Journal of Archaeological Science*, Volume 36, Issue 7, Pages 1364-1375.
24. Djamalia, M., De Beaulieu, J. L., **Shah-Hosseini, M.**, Andrieu-Ponel, V., Ponel, P., Amini, A., Akhiani, H., Leroy S., Stevens, L., Lahijani, H., Brewer, S., (2008): A late Pleistocene long pollen record from Lake Urmia, NW Iran. *Quaternary Research* 69, 413-420

Conference Proceedings and Presentations

1. M. Abbasian, M. Shah-hosseini, A. Haghshenas, M. J. Risk, *Dispersion of bio-deposits from a deep cage culture fish farm in the Northern Persian Gulf*, October 2019 Intercof, Istanbul
2. Brill, D., May S.M., **Shah-Hosseini, M.**, Leopold M., Callow, N., Engel, M., Scheffers, A., Brückner, H. *OSL chronology of onshore cyclone deposits at Point Lefroy (Exmouth Gulf, Western Australia) – Implications for washover fan formation and regional cyclone activity.* *Geophysical Research Abstracts Vol. 18, EGU2016-1586, 2016*, EGU General Assembly 2016, Vienna
3. **Shah-Hosseini, M.**, Morhange, C., Anthony, E. Naderi, A. *Study of strandplain evolution along the Iranian coast of Makran (north western Indian Ocean) with application of ground penetrating radar (GPR).* Oral presentation in *8th IAG- international conference of geomorphology.* 27-31 August 2013, Paris
4. **Shah-Hosseini, M.**, Morhange, C., Shabaniyan, E. (2011): *Late Holocene uplift history and morphotectonics of the Chabahar and Pozm strand plains along the Makran coast, south-east Iran.* *American Geophysical Union*, Fall Meeting 2011, abstract #EP33A-0880. USA
5. **Shah-Hosseini, M.**, Morhange, C., Naderi, A., Marriner, N., Lahijani, H., Hamzeh, M., Sabatier, F., *Coastal boulders as evidence for high-energy waves on the Iranian coast of Makran*, Oral presentation in *8th Italian forum of geosciences (Geoitalia)* 19-23 September 2011, Torino. Italy.
6. **Shah-Hosseini, M.**, Morhange, C., Lahijani, H. Naderi, M., Sanjani, S. *Displaced coastal boulders; evidence for catastrophic coastal waves on Iranian Makran coast*, Short talk and poster presentation in *AGU-Chapman Conference on Giant Earthquakes and Their Tsunamis.* 16-24 May 2010, Valparaíso and Vina del Mar, Chile.
7. **Shah-Hosseini, M.**, Lahijani, H. *Evolution of Caspian Sea's coastal lagoons in Holocene*, oral presentation in *international conference of Tracing pollutants in the Caspian sea coastal lagoons*

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(Gilan province, Iran) Iranian National institute for Oceanography and Atmospheric Science,
14-15 August 2008, Tehran, Iran

8. Lahijani, H., **Shah-Hosseini, M.**, Hosseindoost, M., Naderi Beni, A., Habibi, P., Bagheri, H., Morhange, C., (2010): *Sediment distribution pattern along eastern part of the Iranian Makran shelf, northern Gulf of Oman*. Vol. II book series: International Multidisciplinary Scientific Geoconference-SGEM, Albena, Bulgaria, pages: 133-138.
9. Lahijani, H., **Shah-Hosseini, M.**, Akbarpour, M., Naderi Beni, A., Morhange, C., (2010): *Potential inundation areas for tsunami and surges in Makran coast, Iran*. Vol. II book series: International Multidisciplinary Scientific Geoconference-SGEM, Albena, Bulgaria, pages: 127-131.
10. Djamali, M., **Shah-Hosseini, M.**, de Beaulieu, J.-L., Andrieu-Ponel, V., Ponel, P., Akhani, H., Amini, A., Leroy, S. *Vegetation History and climate change in northwestern Iran during the Upper Pleistocene; pollen analysis of the longest continuous lacustrine sequence of the Near East*. Poster presentation, (Selected as the second best poster). Octobre 2-5, 2007, University of Mirail, Toulouse. France
11. **Shah-Hosseini, M.**, Djamali, M., *Late Quaternary climate and environmental change in Iran*. , oral presentation in Palaeoclimatology and climate change of Iran during the late Quaternary, Septembre 12, 2007, Iranian National institute for Oceanography and Atmospheric Science, Tehran, Iran
12. Djamalia, M., **Shah-Hosseini, M.**, De Beaulieu, J. L., Andrieu-Ponel, V., Ponel, Ph., Amini, A., Akhani, H., Leroy S., (2006) *New palaeoecological investigations in northern part of Iran: a focus on the long sequence of Lake Urmia*, short talk and poster presentation in International Q5 conference: February 1-3 2006 National museum of natural history , Paris, France
13. **Shah-Hosseini M.** Amini A. *Sedimentology of Lacustrine terraces in south of Hypersaline Lake Urmia*, presented as poster in 7th symposium of geologica association of Iran, August 2003, Shahroud, Iran