

Curriculum Vitae

Mohsen Badiey

Professor

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Education

Ph.D.	(Applied Marine Physics and Ocean Engineering), Univ. of Miami/RSMAS ¹	1988
M.S.	(Structural Engineering), Southern Illinois University, Carbondale, Ill.	1983
B.S.	(Engineering Mechanics), Southern Illinois University Carbondale, Ill.	1981

Academic Experience

Professor	University of Delaware, College of Engineering	2017-Present
Professor	University of Del., College of Earth, Ocean & Environment ²	2002-2017
Associate Prof.	University of Del., Grad. College of Marine Studies	1996-2002
Assistant Prof.	University of Del., Grad. College of Marine Studies	1990-1996
Post Doc. Fellow	Ministry of Transportation, Japan, Port & Harbor Res. Inst.	1989-1990
Research Assoc.	Univ. Miami, Rosenstiel School of Marine & Atmospheric Sci.	1986-1988

Administrative Experience

Acting Dean	Univ. of Delaware, College of Earth, Ocean, & Environment	2015-2017
Deputy Dean	Univ. of Delaware, College of Earth, Ocean, & Environment	2011-2015
Prog. Director	Physical Ocean Science and Engr., CEOE, Univ. of Delaware	2005-2011
Prog. Manager	Office of Naval Research, Ocean Acoustics (Code 321OA)	1992-1995

Joint Appointments

Professor	Univ. of Delaware, Civil Engineering Department	1991-Present
Professor	Univ. of Rhode Island, Dept. of Ocean Engineering	2011-2013
Professor	Rensselaer Polytechnic Inst., Dept. of Math. Sciences	1995-2006

Awards and Honors

Fellow of the Acoustical Society of America	1999
Special Act Award, Office of Naval Research	1994
United Nation's Development Program (UNDP): Earthquake research	1992
Fellowship, German Science Foundation	1991
Post-doctoral Fellowship from the Science and Technology Agency (STA) of Japan	1989

Refereed Journal Articles (from 2012 to 2018)

1. Wan, L., **Badiey, M.**, Knobles, D. P., Wilson, P., (2018) "The Airy Phase of Explosive Sounds in Shallow Water," J. Acoust. Soc. Am., 143(3), EL199-EL205. <https://doi.org/10.1121/1.5026023>

¹ Rosenstiel School of Marine and Atmospheric Science

² The College's name was changed during this period and two undergraduate departments were added.

2. Zou, Z., **Badiey, M.**, (2017) “Effects of Wind Speed on Shallow-Water Broadband Acoustic Transmission,” *IEEE J. Ocean. Eng.*, D.O.I. 10.1109/JOE.2017.2737049
3. **Badiey, M.**, Wan, L., Luo, (2017) “Shallow Water Modal Evolution Due to Nonlinear Internal Waves,” *J. Marine Science and Application*, (Accepted, to appear in 2017).
4. Dong, H., **Badiey, M.**, and Chapman, R., (2017) “Geoacoustic Inversion of Airgun Data Under Influence of Internal Waves,” *IEEE J. Ocean Eng.* 2017.
5. Wan, L., **Badiey, M.**, and Knobles, D. P., (2016) “Geoacoustic inversion using low frequency broadband acoustic measurements from L-shaped arrays in the Shallow Water 2006 Experiment,” *J. Acoust. Soc. Am.*, 104(4), p2358-2373.
6. **Badiey, M.**, Wan, L., Lynch, J. F., (2016) “Statistics of Nonlinear Internal Waves during the Shallow Water 2006 Experiment”, *J. Atm. and Ocean. Technology*, doi.org/10.1175/JTECH-D-15-0221.1
7. Romero, S., M., **Badiey, M.**, Song, A., (2016) “Time reversal acoustic communication receivers: DSP implementation and fast channel estimation”, *Physical Communications*, V19, p38-46.
8. Yu, Hua, Song, A., **Badiey, M.**, Chen, F., Ji, F., (2015) “Iterative estimation of doubly selective underwater acoustic channel using basis expansion models,” *Elsevier, Ad Hoc Networks*, 34, pp.52-61.
9. **Badiey, M.**, Eickmeier, J. E., and Song, A., (2014) “Arrival-time fluctuations of coherent reflections from surface gravity water waves,” *J. Acoust. Soc. Am.*, 135, EL226.
10. **Badiey, M.**, Wan, L., and Song, A., (2013) “Three-dimensional mapping of internal waves during SW06 experiment,” *J. Acoust. Soc. Am.*, 133(6), EL1-EL7, doi: dx.doi.org/10.1121/1.4747815.
11. **Badiey, M.**, Song, A., and Smith, K. B., (2012) “Coherent reflection from surface gravity water waves during reciprocal acoustic transmissions,” *J. Acoust. Soc. Am.*, **132**(4), EL290-EL295, doi: dx.doi.org/10.1121/1.4747815.