

Curriculum Vitae

1. (a) Name JOYDIP BHATTACHARJEE
 (b) Address for correspondence Assistant Professor,
 Dept. of Ocean Engg. & Naval Architecture
 Indian Institute of Technology Kharagpur
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3. Institution Indian Institute of Technology, Kharagpur
4. Date of Birth 29th December, 1977
5. Gender Male
6. Category GE
7. Whether differently abled NO

8. Academic qualifications (Undergraduate onwards)

Sl. No.	Degree	Subject	Class/Division	Year	University
1	Ph. D.	Hydrodynamics (Water waves)	-	2008	IIT Kharagpur
2	M. Sc. (Spl: Fluid Mechanics)	Mathematics	1 st class 1 st	2001	Jadavpur University, Kolkata-700032,
3	B. Sc. (Mathematics Hons.)	Mathematics (Main) Physics, Chemistry	1 st class 2 nd	1999	The University of Burdwan, West Bengal

9. Ph. D. Thesis Title: Fourier Analysis and Allied Methods in Wave Structure Interaction Problems with Application in Hydroelasticity

Ph. D. Guide: Prof. Trilochan Sahoo

Organisation: Department of Ocean Engineering and Naval Architecture
 Indian Institute of Technology Kharagpur, INDIA

Year of Award: 2008

10. Work Experience

Organization	Designation	Period
Dept. of Ocean Engg & Naval Architecture IIT Kharagpur, INDIA	Assistant Professor	3 rd July, 2013 - Till date
CENTEC, UTL, IST, Lisbon, Portugal	FCT Post Doctoral Fellow	20 th January, 2009 – 30 th June, 2013
Indian Statistical Institute Kolkata, India	Visiting Scientist	2 nd May, 2008 – 30 th November, 2008
Indian Institute of Technology Kharagpur, India	NBHM Post Doctoral Fellow, Dept. of Atomic Energy, Govt. of India	1 st September, 2007 – 1 st May, 2008
Indian Institute of Technology Kharagpur, India	Senior Research Fellow, CSIR-Individual	4 th March, 2005 - 31 st August, 2007
Indian Institute of Technology Kharagpur, India	Junior Research Fellow, CSIR-Individual	4 th March, 2003 - 3 rd March, 2005
Indian Institute of Technology Kharagpur, India	Institute Research Scholar	25 th July, 2002 - 3 rd March, 2003

11. Supervision of research/project

Sl. No	UG/PG level	No. completed	No. in progress
1	B. Tech.	5	6
2	5 th Year Dual Degree M. Tech.	1	5
3	M. Tech./M. Sc./MS	2	1
4	Ph. D.	0	2

12. Sponsored Projects

Sl. No	Project Title	Co-PI	Funding Agency	Amount in lakhs (INR)	Period	Status
1	Hydrodynamic Analysis of Wave Energy Converters with Different Motion Characteristics	Prof. C. Guedes Soares	FCT, Ministry of Sc., Tech. & Higher Edu., Portugal	Approx. Rs. 98.12 lakhs	01/04/2010 – 30/09/2013	Completed
2	Wave Interaction with Floating	Prof. C. Guedes Soares	FCT, Ministry of Sc., Tech. & Higher Edu.,	Approx. Rs. 93.45 lakhs	01/03/2011 – 31/08/2014	Completed

	Structures in Shallow Water		Portugal			
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13. Complete list of publications in standard refereed journals

Sl. No	Title of Paper	Author's name as in the paper	Journal's name	Vol., page & year of Publication
1	Analytical and numerical study of nearshore multiple oscillating water columns	K. Rezanejad, J. Bhattacharjee & C. Guedes Soares	<i>J. Offshore Mech. And Arctic Engng. (ASME)</i> Imp. Fac.: 0.760	Vol. 138 pp. 021901-7, 2016
2	Forced flexural gravity wave motion in two-layer fluid	R. Mondal, J. Bhattacharjee & T. Sahoo	<i>J. Offshore Mech. And Arctic Engng. (ASME)</i> Imp. Fac.: 0.447	Vol. 137(3), pp. 031101 2015
3	Analytical and numerical study of dual-chamber oscillating water columns on stepped sea bottom	K. Rezanejad, J. Bhattacharjee & C. Guedes Soares	<i>Renewable Energy</i> Elsevier Inc. Imp. Fac.: 3.361	Vol. 75, pp. 272-282 2015
4	Time-dependent capillary-gravity waves in the presence of current	S. K. Mohanty, J. Bhattacharjee & T. Sahoo	<i>Acta Mechanica</i> Springer Vienna Imp. Fac.: 1.268	Vol. 226, pp. 311-330 2015
5	Overview and prospects for development of wave and offshore wind energy	C. Guedes Soares, J. Bhattacharjee & D. Karmakar	<i>Brodogradnja</i> Faculty of Mechanical Engineering and Naval Architecture of the University of Zagreb, Croatia Imp. Fac.: 0.3	No. 2 Vol. 65 pp. 87-109 2014
6	Stepped sea bottom effects on the efficiency of nearshore oscillating water column device	K. Rezanejad, J. Bhattacharjee , & C. Guedes Soares	<i>Ocean Engineering</i> Elsevier Inc. Imp. Fac.: 0.966	Vol. 19, pp. 61-72 2013
7	Scattering of gravity waves by multiple surface-piercing floating membrane	D. Karmakar, J. Bhattacharjee & C. Guedes Soares	<i>Applied Ocean Research</i> Elsevier Inc. Imp. Fac.: 1.053	Vol. 39 pp. 40 – 52 2013
8	Flexural gravity wave over a floating ice sheet near a vertical wall	J. Bhattacharjee & C. Guedes Soares	<i>J. Engg. Math.</i> Springer Ver. Imp. Fac.: 0.691	Vol. 75, pp. 29-48 2012

9	Oblique wave interaction with a floating structure near a wall with stepped bottom	J. Bhattacharjee & C. Guedes Soares	<i>Ocean Engineering</i> Elsevier Inc. Imp. Fac.: 0.966	Vol. 38, pp. 1528-1544 2011
10	Wave interaction with a floating rectangular box near a vertical wall with step type bottom topography	J. Bhattacharjee & C. Guedes Soares	<i>J. Hydrodynamics, Ser. B,</i> Elsevier Inc.	Vol. 22(5), pp. 91-96 2010
11	Oblique flexural gravity-wave scattering due to changes in bottom topography	D. Karmakar, J. Bhattacharjee & T. Sahoo	<i>J. Engg. Math.</i> Springer Ver. Imp. Fac.: 0.691	Vol. 66(4), pp. 325-341, 2010
12	Interaction of flexural gravity waves with shear current in shallow water	J. Bhattacharjee & T. Sahoo	<i>Ocean Engineering</i> Elsevier Inc. Imp. Fac.: 0.966	Vol. 36, pp. 831-841, 2009
13	Wave interaction with multiple articulated floating elastic plates	D. Karmakar, J. Bhattacharjee & T. Sahoo	<i>J. Fluids & Structures</i> Elsevier Inc. Imp. Fac.: 1.256	Vol. 25, pp. 1065-1078, 2009
14	Generation of flexural gravity waves in the presence of uniform current	J. Bhattacharjee & T. Sahoo	<i>J. Marine Science & Technology</i> Springer Ver. Imp. Fac.: 0.361	Vol. 13 pp. 138-146, 2008
15	Flexural gravity wave problems in two-layer fluids**	J. Bhattacharjee & T. Sahoo	<i>Wave Motion</i> Elsevier Inc. Imp. Fac.: 1.379	Vol. 45(3) pp. 133-153, 2008
16	Transformation of flexural gravity waves by heterogeneous boundaries	J. Bhattacharjee, D. Karmakar & T. Sahoo	<i>J. Engg. Math.</i> Springer Ver. Imp. Fac.: 0.691	Vol. 62(2) pp. 173-188, 2007
17	Scattering of surface and internal waves by rectangular dikes	P. Suresh Kumar, J. Bhattacharjee & T. Sahoo	<i>J. Offshore Mech. And Arctic Engng. (ASME)</i> Imp. Fac.: 0.447	Vol. 129 pp. 306-317, 2007
18	Expansion formulae for wave structure interaction problems with applications in hydroelasticity	D. Karmakar, J. Bhattacharjee & T. Sahoo	<i>Intl. J. Engng. Sc.</i> Elsevier Inc. Imp. Fac.: 1.360	Vol.45 (10) pp. 807-828, 2007
19	Interaction of current and flexural gravity waves*	J. Bhattacharjee & T. Sahoo	<i>Ocean Engineering</i> Elsevier Inc. Imp. Fac.: 0.966	Vol.34 (11-12) pp. 1505-1515, 2007

20	Expansion formulae in Wave Structure Interaction Problems	S. R. Manam, J. Bhattacharjee & T. Sahoo	<i>Proc. Roy. Soc. Lond. Ser. A</i> Imp. Fac.: 1.702	Vol.462 (2065) pp. 263-287, 2006
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14. Complete list of publications in conference proceedings

Sl. No.	Title	Authors	Name of Conference	Location & Date
1	Wave interaction with floating and submerged rectangular dikes in a two-layer fluid	P. Suresh Kumar, J. Bhattacharjee & T. Sahoo	Intl. Conf. on Conservation Restoration and Management of Lakes and Coastal Wetlands	BBSR, Orissa, India, Dec. 9-13, 2004
2	Effect of current on flexural gravity waves	J. Bhattacharjee & T. Sahoo	25 th Intl. Conf. on Offshore Mech. and Arctic Engng. (OMAE 2006)	Hamburg, Germany, June 4-9, 2006
3	Scattering of ice-coupled waves by a crack in a compressed ice-sheet	J. Bhattacharjee & T. Sahoo	XV th Conf. of Asia and Pacific Div. of the Intl. Assoc. for Hydraulic Res. and Intl. Symp. on Maritime Hydraulics	IIT, Madras, India August 7-10, 2006
4	Expansion formulae for wave structure interaction problems in two-layer fluids	J. Bhattacharjee & T. Sahoo	Intl. Conf. on Appl. of Fluid Mech. in Industry and Environment	ISI, Calcutta, India August 28-31, 2006
5	Scattering of flexural gravity waves by an infinite step	J. Bhattacharjee , D. Karmakar & T. Sahoo	Intl. Conf. on Frontiers in Fluid Mech.	Bangalore Univ., India, October 26-28, 2006
6	On flexural gravity waves in the presence of current	J. Bhattacharjee & T. Sahoo	2 nd Intl. Cong. on Comp. Mech. and Simulation	IIT, Guwahati, India, Dec. 8-10, 2006
7	Wave ice interaction with heterogeneous boundaries	J. Bhattacharjee , D. Karmakar & T. Sahoo	22 nd Intl. Workshop on Water Waves and Floating Bodies (IWWWFB 2007)	Plitvice, Croatia, April 15-18, 2007
8	Scattering of flexural gravity waves by heterogeneity in floating ice sheets	J. Bhattacharjee & T. Sahoo	4 th Intl. Conf. on Theo., Appl., Comp. and Exp. Mech. (ICTACEM 2007)	IIT, Kharagpur, India, Dec 27-29, 2007

9	Oblique scattering of flexural gravity waves due to change in bottom topography	D. Karmakar, J. Bhattacharjee & T. Sahoo	79 th Annual Meeting of the Intl. Asso. of Appl. Math. and Mech. (GAMM2008)	Bremen, Germany, 31 st Mar.-4 th Apr. 2008
10	Hydroelastic analysis of multiple articulated floating elastic plate	D. Karmakar, J. Bhattacharjee & T. Sahoo	XXII Intl. Cong. of Theo. and Appl. Mech. (ICTAM 2008)	Adelaide, Australia, August 24–30, 2008
11	Scattering of gravity waves by floating elastic plate in shallow water	J. Bhattacharjee , D. Karmakar & T. Sahoo	9 th Intl. Conf. on Vibration Problems (ICoVP 2009)	IIT, Kharagpur, India, Jan 19-22, 2009
12	Effect of jet-like current on flexural gravity waves	J. Bhattacharjee & T. Sahoo	3 rd Intl. Conf. in Ocean Engg. (ICOE 2009)	IIT Madras, India, Feb 1-5, 2009
13	Flexural gravity wave scattering due to variations in bottom topography	D. Karmakar, J. Bhattacharjee & T. Sahoo	28 th Intl. Conf. on Ocean, Offshore and Arctic Engg. (OMAE 09)	Honolulu, Hawaii, May 31 st – June 5 th , 2009
14	Wave interaction with a floating rectangular box near a vertical wall with step type bottom topography	J. Bhattacharjee & C. Guedes Soares	9 th Intl. Conf. on Hydrodynamics (ICHHD2010)	Shanghai, China October 11-15, 2010
15	Vertical porous membrane barrier for coastal structure near a wall	J. Bhattacharjee & C. Guedes Soares	2 nd Coastal and Maritime Mediterranean conference CM ²	Tangier, Morocco, November 22-24, 2011
16	Reflection and transmission of gravity waves by a large circular elastic plate	J. Bhattacharjee & C. Guedes Soares	1 st Intl. Conf. on Maritime Tech. and Engng. (MARTECH 2011)	Lisbon, Portugal, May 10-12, 2011
17	Review and classification of Wave Energy Converters	C. Guedes Soares, J. Bhattacharjee , M. Tello & L. Pietra	1 st Intl. Conf. on Maritime Tech. and Engng. (MARTECH 2011)	Lisbon, Portugal, May 10-12, 2011

18	Analytical and numerical study of nearshore multiple oscillating water columns	K. Rezanejad, J. Bhattacharjee & C. Guedes Soares	32 nd Intl. Conf. on Ocean, Offshore and Arctic Engg. (OMAE2013)	Nantes, France June 9-14, 2013
19	Numerical modelling of a heaving point absorber in front of a vertical wall	K. Rezanejad, J. Bhattacharjee & C. Guedes Soares	32 nd Intl. Conf. on Ocean, Offshore and Arctic Engg. (OMAE2013)	Nantes, France June 9-14, 2013
20	Wave interaction with a vertical partial barrier near a wall	P. Mohapatra, R. K. S. R. Mishra & J Bhattacharjee	4 th Intl. Conf. on Ship & Offshore Technology ICSOT India 2015	IIT Kharagpur, India, December 10-11, 2015
21	A review of wave and tidal energy prospects in India	R. K. S. R. Mishra, P. Mohapatra & J Bhattacharjee	60 th Congress of ISTAM	MNIT Jaipur, India December 16-19, 2015

15. Book/Book chapter

Sl. No.	Title	Authors	Publisher
1	Contemporary approaches in the hydroelastic analysis of floating and submerged structures	D. Karmakar, J. Bhattacharjee & T. Sahoo	Marine Tech. & Engng., Vol. 1, Marine Environment Dynamics and Hydrodynamics, pp. 461 – 478, Taylor and Francis, Editors: C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira
2	Scattering of ice-coupled waves by a narrow crack in a floating ice sheet	M. Tello, J. Bhattacharjee & C. Guedes Soares	Maritime Engineering and Technology, C. Guedes Soares, Y. Garbatov S. Sutulo T. A. Santos, (Eds.), Taylor & Francis Group, UK, pp. 655-666.

16. Collaborations: CENTEC, IST, UTL, Lisbon, Portugal

Collaborators: Prof. C. Guedes Soares, Mr. K. Rezanejad)

Outcome: Research Collaboration, Research publications

17. Member of Professional Body: Associate Member: Royal Institution of Naval Architects (RINA)

18. Seminar / Conference / Workshop organized: Member of the Organizing Committee: International Conference on Ship and Offshore Technology, ICSOT INDIA 2015, December 10-11, Dept. of OE & NA, IIT Kharagpur

19. Short Term Course organized:
Numerical Ocean Hydrodynamics (QIP)
Role: Co-coordinator
Duration: 08-13 June, 2015

Offshore and Coastal Engineering (QIP)
Role: Faculty
Duration: 06-10 July, 2015

INTEGRATED TRAINING MODULE UNDER ICZMP WITH GUJARAT PERSPECTIVE

Role: Faculty

Duration: 01-08 January, 2014 (Batch 1), 20-27 January, 2014 (Batch 2), 14-21 July, 2014 (Batch 3), 20-27 November, 2014 (Batch 4)

INTEGRATED TRAINING MODULE ICZMP WEST BENGAL

Role: Faculty

Duration: 21-26 April, 2014

20. Any other information

(a) Personal Google Scholar site :

<http://scholar.google.co.in/citations?user=28meZBsAAAAJ&hl=en>

(b) Google Scholar citation: Citation- 236 with h-index 9 and i10 index - 8 as on 1st April, 2016

(c) Personal webpage : <http://www.naval.iitkgp.ernet.in/home/faculty/home.php?id=joydip>