

# Curriculum Vitae

## RAVINDER DHIMAN

Doctoral Research Scholar  
Centre for Urban Science and Engineering  
2<sup>nd</sup> Floor Civil Engineering Dept.  
Indian Institute of Technology Bombay  
Powai, Mumbai 400 076, India.

**Mobile:** +91 9253521111  
**Email:** rdhiman@iitb.ac.in  
rdhimanc4s@gmail.com  
**ORCID:** 0000-0002-5906-8953  
<https://sites.google.com/view/rdhiman>

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## Present Status

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Full time Doctoral research scholar at Centre for Urban Science and Engineering, (Centre for Excellence in Urban Science and Engineering and Centres for Training and Research in Frontier areas of Science and Technology (CoE-FAST)), Indian Institute of Technology Bombay, Mumbai under Teaching Assistantship category funded by Ministry of Human Resource Development, Government of India.

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## Education

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<b>Ph. D.</b> 2015 – Present	Centre for Urban Science and Engineering, Indian Institute of Technology, Bombay, Mumbai, India <i>Thesis:</i> Methods for Environmental Spatial Planning of Coastal Cities <b>Performance: 9.25/10 (C.P.I) (First Division)</b> Expected year of completion (July 2019)
<b>M. Tech.</b> 2011 – 2013	Institute of Environmental Studies, Kurukshetra University, Kurukshetra, Haryana, India <i>Subject:</i> Energy and Environmental Management <b>Performance: 74.38% (First Division)</b>
<b>B. E.</b> 2007 – 2010	Maharshi Dayanand University, Rohtak, Haryana, India <i>Subject:</i> Biotechnology Engineering <b>Performance: 65.54% (First Division)</b>
<b>Diploma</b> 2004 – 2007	Government Polytechnic, Sonipat, Haryana, India <i>Subject:</i> Computer Engineering <b>Performance: 64.31% (First Division)</b>

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## Research and Professional Interests

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Environmental Management, Sustainability Assessment, Geospatial Science, Multiple Criteria Decision Making, Environmental Policies and Urban Development, Coastal Resource Management, Environmental Decision Support, Smart Cities and Climate Studies.

## Research and Professional Experience

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Teaching Assistantship 2015 – Present	Indian Institute of Technology Bombay, Mumbai, India <i>Role:</i> Assisted in teaching and evaluation of various courses and provided technical assistance for sponsored projects.
Senior Project Fellow 2013 – 2014	Physical Oceanography Division CSIR – National Institute of Oceanography, Goa, India <i>Role:</i> Provided technical assistance for various sponsored research projects.

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## Sponsored Projects

- 2015 Development of Coastal Management Information System for Maharashtra State sponsored by Maharashtra Maritime Board (MMB) in collaboration with Centre of Studies in Resources Engineering, IIT Bombay.
- 2014 Demarcation of High Tide line, Low Tide line & CRZ boundaries along the coast between Gangavaram Port and Kakinada Deep Sea Port, Andhra Pradesh sponsored by Visakhapatnam - Kakinada Petroleum, Chemical and Petrochemical Investment Regional Special Development Authority (VK-PCPIR SDA), India.
- 2013 Shoreline change study at Mundra Water Front Development Plan (WFDP) area sponsored by Adani Ports and SEZ Ltd. in Gulf of Kutch, Gujrat, India.
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## Publications

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Journals (International peer reviewed)

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1. **Dhiman, R.**, Kalbar, P., & Inamdar, A. B. (2018). GIS coupled multiple criteria decision making approach for classifying urban coastal areas in India. *Habitat International*, 71, 125-134. [Elsevier Publication, **IF:3.0/2018**]
  2. VishnuRadhan, R., Zainudin, Z., Sreekanth, G. B., **Dhiman, R.**, Salleh, M. N., & Vethamony, P. (2017). Temporal water quality response in an urban river: a case study in peninsular Malaysia. *Applied Water Science*, 7(2), 923-933. [Springer Publication]
  3. Murali, R. M., **Dhiman, R.**, Choudhary, R., Seelam, J. K., Ilangovan, D., & Vethamony, P. (2015). Decadal shoreline assessment using remote sensing along the central Odisha coast, India. *Environmental Earth Sciences*, 74(10), 7201-7213. [Springer Publication, **IF:1.43/2018**]
  4. Kumar, A., & **Dhiman, R.** (2014). Manual and automated delineation of watershed boundaries-a case study from Kangra region of western Himalaya, India. *International Journal of Environmental Sciences*, 5(1), 16. [Integrated Publishing Association]
  5. **Dhiman, R.**, VishnuRadhan, R., Eldho, T. I., & Inamdar, A. B. (2019). Flood risk and adaptation in Indian coastal cities: recent scenario. *Applied Water Science*, 9(5).
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## Journal (National)

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1. Kumar, A., **Dhiman, R.**, & Deshmukh, B. (2014). Morphometric analysis of watersheds of Kangra region of Indian Himalaya for assessing their fluvial erosion susceptibility. *Himalayan Geology*, 35(1), 47-55. [Wadia Institute of Himalayan Geology, **IF:0.4/2018**]
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## Conferences (International)

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1. **Dhiman, R.**, Kalbar, P., & Inamdar, A. B. (2018). Quantitative Approach for Environmental Spatial Planning of Urban Coastal Regions in Developing Countries. In *American Geophysical Union Fall Meeting Abstracts*, 10-14 December 2018, Washington DC, USA. (Accepted)
  2. **Dhiman, R.**, Kalbar, P., & Inamdar, A. B. (2017). GIS coupled Multiple Criteria based Decision Support for Classification of Urban Coastal Areas in India. In *American Geophysical Union Fall Meeting Abstracts*, 11-15 December 2017, New Orleans, Louisiana, USA.
  3. **Dhiman, R.**, Kalbar, P., & Inamdar, A. B. (2017). Development of Decisions support for spatial environmental planning of urban coastal areas. In Proceedings of 12<sup>th</sup> World Congress of RSAI (Regional Science Association International), 29 May – 1 June, Goa, India.
  4. **Dhiman, R.**, Tirodkar, J., & Inamdar, A. B. (2016). Integrating Sustainable Coastal Development Initiatives along Maharashtra Coast, using ICM Guidelines. In Proceedings of 10<sup>th</sup> Biennial Lake Conference, **Lake-2016**, 28 – 30 December, Karnataka, India.
  5. **Dhiman, R.**, Inamdar, A. B., & Banerjee, L. (2016). Development of Coastal Management Information System for Maharashtra State, India – A Mapserver Based Open Source Approach. In Proceedings of **37th Asian Conference on Remote Sensing**, 17-21 October 2016, Colombo, Sri Lanka.
  6. ManiMurali, R., **Dhiman, R.**, Jayakumar, S., Ilangovan, D., & Vethamony, P. (2014). Detection of decadal shoreline changes along Dhamara and Maipura coast, Odisha, India. In Proceedings of **19th IAHR-APD** (Asian and Pacific Regional Division Congress of the International Association for Hydro-Environment Engineering and Research), 21-24 September, Hanoi, Vietnam.
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## Awards and Academic Achievements

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1. Student Travel Grant Winner at American Geophysical Union (AGU) Fall Meeting, USA, 2018.
2. Invited Global Student Delegate at Chicago Forum on Global Cities at Chicago, USA, 2018 nominated from Indian Institute of Technology, Bombay, India.
3. Student Travel Grant Winner at American Geophysical Union (AGU) Fall Meeting, USA, 2017.

## Professional Trainings and Workshops

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### Trainings

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1. Application of Remote Sensing and GIS for Shoreline Change Assessment at CSIR – National Institute of Oceanography, Goa, India for 6 month (Jan – June 2013).
2. Application of Remote Sensing and GIS for Watershed Management at CSIR – Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India for 2 months (June – August 2012).

### Workshops

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1. NASA – ISRO Synthetic Aperture Radar (NISAR) Science Workshop organized by Space Application Centre, Ahmedabad during 17-18 November, 2014.
2. 1<sup>st</sup> Climate Science and Policy Workshop organized by Inter Disciplinary Programme in Climate Studies, Indian Institute of Technology Bombay, India during 6-7 March 2014.
3. Workshop on Climate Change and Coastal Processes organized by Ocean Engineering Division, CSIR – National Institute of Oceanography, Goa, India on 4<sup>th</sup> February, 2014.

## Computing Skills

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- ☞ **Programming:** Python, Visual Basic, HTML;
- ☞ **Packages:** MS Office, R, Matlab, LaTeX;
- ☞ **Applications:** ESRI ArcGIS, ERDAS Imagine, Origin, SPSS, Web GIS;

## Personal Details

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Date of Birth	:	21st July, 1988
Gender	:	Male
Marital Status	:	Single
Nationality	:	Indian
Passport Number	:	R 4078340
Mobile Number	:	+91 9253521111

Date: April 2019

Place: Mumbai, India

Ravinder Dhiman