



# Nitin R Karmalkar

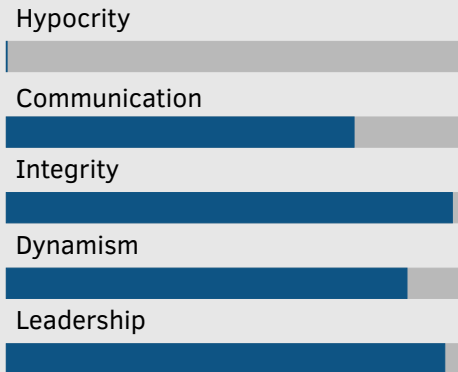
Professor & HoD, SPPU

- 11 January 1962
- SPPU, Pune, India
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- nrkarmalkar@gmail.com

## About me

Prof Nitin R Karmalkar is a well known scientist in the field of Igneous petrology. He currently is working as Professor in Department of Geology and Head of Department of Environmental Science at SP Pune University, India. He also works as Director, IQAC and has been motivating academicians for embellishments towards quality assurance. This provides him with blend of strong academic/research experience with administrative expertise.

## Skills



Amicability\*5.8 Administration\*5.7  
Transparency\*5.9

(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert). The rating is done by Prof Karmalkar and is part of self-assessment.]

## Interests

Prof Karmalkar has research interest in Igneous petrology with special emphasis on the mantle petrography and geochemistry, Rift related alkaline magmatism and Economic geology.

## Education

- 1984-1988 Ph.D, Department of Geology SP Pune University, Pune  
*Petrography and Geochemistry of Ultramafites from parts of Indus Ophiolite belt, Ladakh Himalaya, with special reference to Chromite Mineralization.*
- 1983-1884 M.Sc, Department of Geology SP Pune University, Pune  
Majoring in Geology
- 1979-1982 B.Sc, Department of Geology Shivaji University, Kolhapur  
Majoring in Geology
- 1977 High school SSC Board  
Specializing in chemistry, mathematics and physics.

## Ongoing Research Activities

- Australia** Petrologic and Geochemical fingerprints of the mantle xenoliths from alkaline rocks of Kutch, India and its bearing on the evolution of Deccan basaltic province with Prof. W.L. Griffin and S.Y. O' Reilly of the GEMOC Key Centre Macquarie University, Sydney 2109
- Germany** On the Significance of Nb/Ta ratio in the Carbonatites of Lake Chilwa Island Malawi, East Africa with Prof. A. Hofmann of the Max-Planck-Institut Fur Chemie Mainz
- France** Trace element Characterization of the Alkaline magmatism associated with the Deccan Volcanic Province India with Dr. Delphine Bosch, CNRS, Cedex Universite Montpellier II, Pl. E. Bataillon, 34095 Montpellier Cedex 05
- France** Magma Types and source characterization of the Early Deccan Magmatism, Kutch region NW India: Insights from the geochemistry of igneous intrusions with Michel Gregoire, Mathieu Benoit Guillaume Delpech Geosciences Environnement Toulouse CNRS-IRD-Universite Paul Sabatier, Observatoire Midi Pyrenees, 31400 Toulouse, France and UMR CNRS 8148 IDES, Faculte des Sciences, Universite Orsay-Paris Sud, 91405 Orsay Cedex
- Kolkata** Geochemical characterization of the alkaline complexes associated with the Deccan Volcanic Province, in parts of Gujarat and Rajasthan states India, with Presidency College
- Himalayas** Petrography and Geochemistry of the Ultra High Pressure Eclogitic Rocks from the Tso Morari Complex, Ladakh
- Himalayas** Petrography and geochemistry of Mafic and Ultra Mafic sequences from parts of Indus Ophiolite Belt, Ladakh
- Maharashtra** Surface Geological Investigation of Koyna - Warna Region to Evaluate Neotectonism with the Emphasis on Quaternary Sediments (using remote sensing techniques)
- Himalayas** Petrographic and geochemical fingerprinting of the select ophiolite sequences from Himalayan and Naga Ophiolite belt
- India** Investigation on Microbial Bioleaching of Uranium from Secondary Uranium Deposits

## Visits Abroad

- Australia** GEOMOC ARC National Key Centre, Department of Earth and Planetary Sciences, Macquarie University, Sydney, Australia between March 1997 and May 1997 as Post- Doctoral Research Fellow
- East Africa** Republic of Malawi, East Africa. as consultant to the UNDP / World Bank Aided project on the Resource Development two times in 1999, 2000
- Germany** Max-Planck-Institute Fur Chemie Mainz Germany as Max-Planck Post-Doctoral Research Fellow between December 1999 and March 2000.



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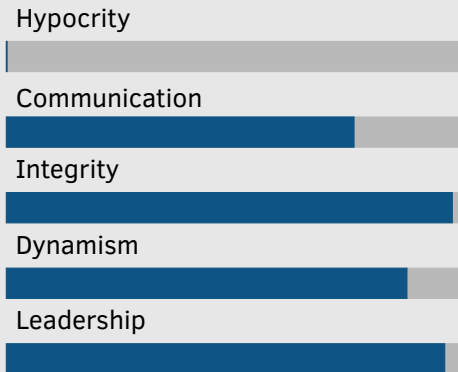
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## Visits Abroad

- Yemen** Republic of Yemen to undertake sampling of the mantle xenoliths from the AtaQ region as well as pegmatitic rocks from Hadda region.
- Iran** Islamic Republic of Iran to undertake geological mapping and sampling of the Khoy Ophiolite belt, Iran.

## Publications

- 2017** M. K. Jonnalagadda, N. R. Karmalkar, and S. Harshe (2017) Morphology and chemistry of Cr Spinel from the peridotites of the Spontang Ophiolite Complex, Ladakh: insights into the petrogenesis of mantle peridotites. Geophysical Research Abstracts, Vol. 19, EGU2017-6643
- 2017** M K. Jonnalagadda, N. R. Karmalkar, R. A. Duraiswami, S. Harshe, Sarah Gain and W. L. Griffin. (2017) Formation of Atoll Garnets in the UHP Eclogites of the Tso Moriri Complex, Ladakh, Himalaya. Jour. Earth System. Sci. In press.
- 2016** Kale, M.G, Duraiswami, R., A. Pundalik, Karmalkar N.R. (2016) Soft Sediment Deformation structures from Kahri River Section of Rudramata member, Jhuran Formation, Kutch: A testimony of Jurassic Seismites. Jour. Geol. Soc. Ind. Vol. 87, pp. 194-204
- 2016** Karmalkar N. R., Raymond A. Duraiswami, R.A. Jonnalagadda, M.K., Griffin, W.L, Gregoire, M, Benoit, M. Delpech, G. (2016) Magma Types and source K characterization of the Early Deccan Magmatism, Kutch region NW India: Insights from the geochemistry of igneous intrusions. Jour. Geol. Soc. Ind. Sp. Publ. No. 6, pp. 195-210
- 2014** Duraiswami, R.A. Karmalkar, N.R. Kale, M.G. Sarkar, P.K. Shaikh T.N. and Jonnalagadda M. K. (2014) Pumpellyite-Yugawaralite aggregates in serpentinised harzburgite near Hanle, Nidar Ophiolite Belt, Ladakh Trans-Himalaya, India and their significance - Himalayan Geology, Vol 35, pp. 22 - 30.
- 2014** Karmalkar, N. R. Duraiswami, R. A. Jonnalagadda M. K and Griffin W. L. (2014) Mid-Cretaceous Lamproite from the Kutch region, Gujarat, India: Tectonic implications - Gondwana Research. Gondwana Research v. 26, pp. 952-956.
- 2010** Karmalkar, N.R. and Duraiswami, R.A. (2010) Ultramafic xenoliths from Kutch, northwest India: samples of relic cratonic keel. In: Origin and Evolution of the Deep Continental Crust (Eds. N.R. Karmalkar, R.A. Duraiswami, N.J. Pawar and. Ch. Sivaji) Narosa Publishing house, New Delhi, pp. 237-260.
- 2010** Karmalkar, N.R., Duraiswami, R.A. and Hoffman (2010) Unusual rift related magmatism from southern Malawi, southeast Africa and its role in crustal evolution. In: Origin and Evolution of the Deep Continental Crust (Eds. N.R. Karmalkar, R.A. Duraiswami, N.J. Pawar and. Ch. Sivaji) Narosa Publishing house, New Delhi, pp. 153-173.
- 2009** Karmalkar, N.R., Duraiswami, R.A., Chalapathi Rao, N.V. and Paul, D.K. (2009) Mantle-derived mafic-ultramafic xenoliths and the nature of Indian Sub-continental Lithosphere. Jour. Geol. Soc. Ind. v. Vol.73, pp.657-679
- 2008** Karmalkar, N.R., Kale, M.G., Duraiswami, R.A., Jonnalagadda, M. (2008) Magma underplating and storage in the crust building process beneath the Kutch region, NW India. Curr. Sci., v.94, no.12, pp.1582-1588.
- 2005** Karmalkar N.R. Sonal Rege, Griffin W.L. and O'Reilly S.Y. (2005) Alkaline magmatism from Kutch, NW India: Implications for Plume-lithosphere interaction Lithos Vol. 81 pp. 101-119.
- 2004** Deo, S. Ghate, S. Rajguru, S.N., Karmalkar N. R. and Kale M. (2004) Discovery of an Archean Site in Association with Tephra at Rajbag, Taluka Supa, District Pune, Maharashtra. Man and Environment Vol. XXIX (1): 108.
- 2004** Duraiswami, R.A. Karmalkar N.R. and Pawar N.J. (2004) Geochemistry of the basic-ultrabasic rocks from the Dongargarh Supergroup, Central India. Recent Researches in Economic Geology, Vol. 2. pp. 125-143.



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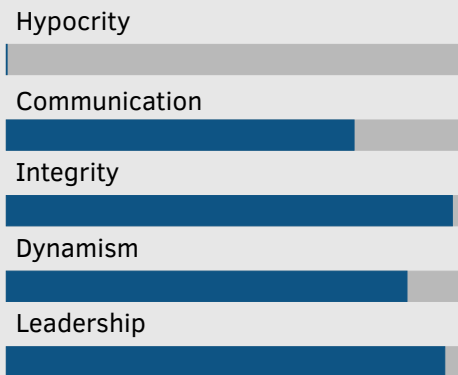
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## Skills



Amicability\*5.8 Administration\*5.7  
Transparency\*5.9

(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert). The rating is done by Prof Karmalkar and is part of self-assessment.]

## Publications

2003 Yedekar, D.B., Karmalkar, N., Pawar N.J. and Jain, S. C. (2003) Tectonomagmatic Evolution of the Central Indian Terrain. *Gond. Geol. Magz. Spl. V. 7*, pp. 67-88.

2003 Karmalkar, N.R. and P.K. Sarma (2003) Plume affected upper mantle beneath Kutch: evidence from spinel lherzolite xenoliths and host alkali basalts DCS-DST News Letter Vol. 13. pp 2-3.

2003 Karmalkar, N.R. and Porittran K. Sarma (2003), Characterisation and origin of Silicic and alkali rich glasses in the Upper mantle-derived spinel peridotite xenoliths from alkali basalts, Deccan Trap, Kutch, northwest India. *Current Science*. Vol. 85 pp 386-392.

2002 Karmalkar, N.R. and Rege, S. (2002) Cryptic metasomatism in the upper mantle beneath Kutch: evidence from spinel lherzolite xenoliths. *Current Science*. Vol. 82 pp 1157-1164.

2001 Karmalkar, N.R., Pawar N.J., Patwardhan A.M. (2001) Petrography and geochemistry of basic and ultrabasic rocks from Bhandara Craton, Central India- Insights in to the Mantle source characteristics DCS-DST News Letter Vol. 11.

2000 Karmalkar, N.R., Dessai, A.G., Duraiswami, R.A. (2000) Alteration of chromite from Dunites of Indus Ophiolite Belt, Ladakh Himalaya, India. *Gondwana Geological Magazine V. 15* pp. 27-34.

2000 Karmalkar, N.R., Griffin, W.L. and O'Reilly, S.Y. (2000) Ultramafic xenolith from (NW India): Plume-related mantle samples? *International Geology Review V. 42*, pp. 416-444.

1999 Karmalkar, N.R., Duraiswami, R.A., Griffin, W.L. and O'Reilly, S.Y. (1999) Enigmatic orthopyroxene-rutile-spinel intergrowth in the mantle xenoliths from Kutch, India. *Current Science V. 76* (5), 687-692.

1998 Karmalkar, N.R., Soman, G.R., Duraiswami, R.A. and Phadke, A.V. (1998) Rare fissure type of eruption from the southern part of the Deccan Volcanic Province, India. *Gondwana Geological Magazine. V. 13. no. 1. Pp. 13-19.*

1998 Sarkar, P.K., Friedman, G.M., Karmalkar, N.R. (1998) Speleothem deposits developed in caves and tunnels of Deccan-trap basalt's, Maharashtra, India. *Carbonates and Evaporites, v. 13, no. 2. 132-135.*

1998 Karmalkar, N.R., Ghate, S.N., Mishra, S. and Rajaguru, S.N. (1998) Morphology of the volcanic ash from the Kukadi river section, Pune District, Maharashtra. *Jour. Geol. Soc. Ind., v. 51, 213-218.*

1996 Phadke, A.V. and Karmalkar, N.R. (1996) Highly siliceous volcanic ash from Pune district, Maharashtra, India: A natural fine grained Abrasive. In the *Proceedings of Int. Cong. Appl. Mineral. Poland.*

1997 Karmalkar, N.R., Desai, A.G., Duraiswami, R.A. (1997) Morphological and chemical changes in spinels and their bearing on the cumulate or residual nature of the peridotites from the Indus Ophiolite, India. *Indian Mineralogist, v. 31, 12-23.*

1996 Duraiswami, R.A. and Karmalkar, N.R. (1996) Unusual xenolithic dyke at Mandaleshwar and its episodic nature. *Gondwana Geol. Mag., v. 11 (1), 1-10.*

1995 Karmalkar, N.R., Dessai, A.G., Duraiswami, R.A. and Leblanc, M. (1995) Evidence of garnet to spinel peridotite transition in the harzburgites of Indus ophiolite belt: An indication of their mantle origin. *Current Science, v. 69 (9), 767-770.*

1995 Patwardhan, A. M., Karmalkar, N.R., Panaskar, D.B. and Meshram, D.C. (1995) Seismicity impact in Patan Taluka, District Satara, Maharashtra. *Jour. Geol. Soc. Ind., v. 46 (3), 275-285.*

1992 Dessai, A.G., Karmalkar, N.R., and Leblanc, M. (1992) Podiform chromites in Mantle Peridotite from Indus Ophiolite belt, Ladakh Himalaya. *Jour. Geol. Soc. Ind., v.39, 29-38.*

1992 Phansalkar, V.G., Kale, A.S., Karmalkar, N.R. and Kale, V.S. (1992) Reply to comments on "An unusual evaporite association from Papaghini Group, Cuddapah Basin". *Jour. Geol. Soc. Ind., v. 39, 257-259.*



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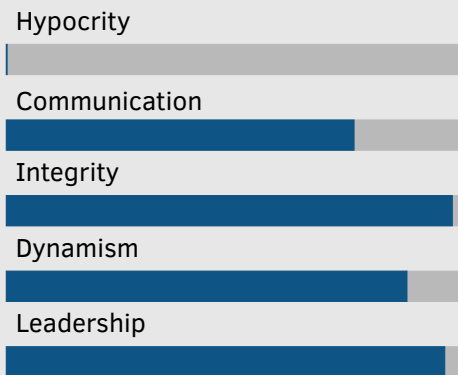
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## Skills



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## Publications

- 1991 Phansalkar,V.G., Kale, A.S., Karmalkar, N.R. and Kale, V.S. (1991) An unusual evaporite association from Papaghini Group, Cuddapah Basin. Jour. Geol. Soc. Ind., v. 37, 75-79.
- 1989 Karmalkar, N.R., Dessai, A.G. and Leblanc, M. (1989) SEM morphology and geochemistry of podiform chromites from ultramafites of Indus ophiolite belt, Ladakh Himalaya. In: Phanerozoic Ophiolites of India and associated Mineral Resources. Ed. N.C. Ghosh. Sumna Publishers, Patna. 118-132.
- 1983 Dessai, A.G., Pardeshi, R.G., Karmalkar, N.R. and Powar, K.B. (1983) Petrology of the mafic and ultramafic rocks of the Indus Ophiolite Belt, Ladakh Himalaya. In: Ophiolites and Indian Plate Margins, (Eds.) Ghosh, N.C. and Varadrajana, S. Sumna Publs., Patna, 63-73.

## Books/Abstract/Technical Reports Edited

- 2014 Abstract Volume published as conference proceedings on National Conference on Energy and Environment (NC2E) - Energy and Environments security through Cutting Edge technology. Editors - S. V. Ghaisas, N.R. Karmalkar, S. Jadkar, A. Supekar, S. Gosavi, M. Jonnalagadda, M. More and V. Waman - Success Publications ISBN no - 978-93-83993-10-9.
- 2013 Abstract Volume published as conference proceedings on Synergy of Geochemistry, Geology, Geophysics towards Natural and Energy resources, Environment and Health. Editors - N. R. Karmalkar, R.A. Duraiswami.
- 2012 NIASM Technical Bulletin - 4, Groundwater Exploration, Development and Management in NIASM watershed, Malegaon Khurb, Baramati. Editors: U. K. Maurya, R.A. Duraiswami, KPR Vital, N. R. Karmalkar, S.V. Ghadge.
- 2010 Origin and Evolution of the Deep Continental Crust. Editors: N. R. Karmalkar, R. A. Duraiswami, N. J. Pawar and Ch. Sivaji. Narosa Publishing House, New Delhi.
- 2010 Field Guide: Dyke Swarms of Deccan Volcanic Province. 6th IDC, Varanasi India. Editors: N. R. Karmalkar, R. A. Duraiswami.
- 2008 Abstract Volume published as conference proceedings on National Conference on Origin and Evolution of the Deep Continental Crust. Editors: N. R. Karmalkar, R. A. Duraiswami, N. J. Pawar and Ch. Sivaji.

## Additional Activities / Responsibilities

- from 2013 Head, Department of Environmental Science, SPPU.
- from 2011 Coordinator, IQAC Cell SPPU.
- 2017 Co-convenor for the International Conference on 'Capacity Building for conservation in Asia' held at the Department of Environmental Science, SPPU, jointly with ERT, London.
- 2016 Convener for the field workshop of 21<sup>st</sup> Annual Meeting of the Inter Continental Drilling Programme Science Advisory Group.
- 2014 Convener for the National Conference on 'Energy and Environment' held at the Department of Environmental Science, University of Pune.
- 2013 Convener for National Conference on "Synergy of Geochemistry, Geology and Geophysics towards natural and energy resources, environment and health" Jointly organized by the Department of Geology, University of Pune, and Indian Society of Applied Geochemist (ISAG) Hyderabad.
- 2012 Coordinator for the Inspire Internship Program of the DST between 11th and 15th December 2012.
- 2010-13 Head, Department of Geology, SPPU.
- 2010 Co-convenor for the National Conference on 'Hydrogeology of the volcanic terrain' organized jointly by the Department of Geology, UoP, Geological Society of India Bangalore and GSDA Pune in 2010.
- 2009 Convener for the refresher course on 'Understanding the Planet Earth' for the college and post graduate teachers in Geology.
- 2006 Convener: DST sponsored National Seminar on 'Origin and Evolution of Deep Continental Crust' jointly Organized by the Department of Geology, UoP and Mineralogical Society of India, Mysore.





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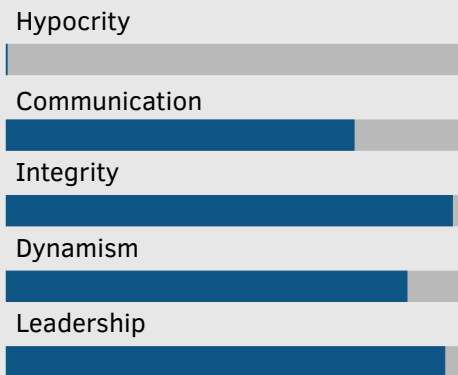
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## Additional Activities / Responsibilities

- from 2006 to 2005 Professor in the Department of Geology, SPPU, Pune- 411007. Co-convener for the National Conference on 'Recent Trends in Geotechnology' jointly Organized by the Department of Geology, UoP and Indian Geotechnical Society, Pune Chapter.
- 2003 Convener for the refresher course on 'Watershed and Disaster management' for the college and post graduate teachers in Geology.
- 1999-2000 Worked as consultant to the UNDP / World Bank Aided projects in the Republic of Malawi, East Africa.
- 1988-2006 worked as lecturer at the post graduate level in the Department of Geology, University of Pune, Pune, 411 007
- 1988-1994 Worked as the Visiting Faculty at the School of Environmental Sciences, University of Pune, Pune, Pune- 411007.
- 1987-1988 worked as Research Associate in the D.S.T. Sponsored project "Climatic Changes in the north western-part of India".
- 1985 Attended a course on "Use of trace element Geochemistry in Igneous petrogenesis" organized by Pro. V. Rajamani, at the Jawaharlal Nehru University New Delhi.
- 1984-1986 Junior Research Fellow, in the D.S.T. Sponsored project "Geology of the Dras Ophiolite belt Ladakh Himalayas".
- 1992-2013 Resource person for Refresher courses for college teachers in both Earth and Environmental Sciences.

## Administrative Responsibilities

- from 2013 March 2013 - till date appointed as Head, Department of Environmental Science, Savitribai Phule Pune University, Pune - 411007.
- from 2010 Chairman, Examination Committee, Department of Geology, Savitribai Phule Pune University, Pune - 411007.
- 2010-13 Member Head, Department of Geology, SPPU, Pune - 411007
- Since 2011 Member Central Purchase Committee of the S.P. Pune University
- Member Director Internal Quality Assurance Cell S.P. Pune University
- Member Alumni Association, Placement and Corporate relation Cell S.P. Pune University.
- Member Board of Governance 'Center for Intelligent Systems' (RUSA Sponsored), S.P. Pune University
- C-Member Council Member, Geological Society of India, Bangalore
- 2010-12 Member, Central Purchase Committee of SPPU, Pune
- 2010-12 Senate Member, SPPU, Pune
- 2008-2010 Member on the Board for the recruitment of 'Geologist' by UPSC for the Geological Survey of India, GoI, New Delhi.

## Professional Development activities

- Member Academic Council, S.P. Pune University.
- Chairman Board of Studies in Environmental Sciences, S. P. Pune University 2016-2017.
- Co-ordinator Board of Studies in Geology, 2016-2017
- Member Board of Studies and Research and Recognition Committee in Geology, University of Pune, Member BOS, in Geology Mumbai University, Research and Recognition Committee in Geology, Shivaji University Kolhapur, North Maharashtra University Jalgaon.
- Chairman for paper setting in Earth and Atmospheric Science SET Examination for the state of Maharashtra and Goa.
- Paper Setter for the KSET Examination in Earth Sciences for the state of Karnataka.
- Paper Setter for Maharashtra Public Service Commission (MPSC) Examination for the Post of Jr. Geologist.
- Paper Setter for Jammu and Kashmir Public Service Commission Examination for the Post of Jr. Geologist 2013, 2014.
- Member Expert Panel for the sanction of Major Research Projects in Geology of the UGC, New Delhi.
- Reviewer Peer Reviewer of the research projects submitted for funding to the DST New Delhi MoES, GoI, Kothari Fellowship.
- Reviewer Peer reviewer for Journal of Geological Society of India (Springer), Journal of Earth System Science (Springer), Gondwana Research (Elsevier), Journal of Asian Earth Sciences (Elsevier) etc.



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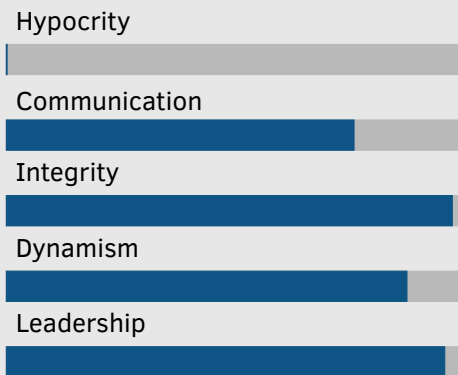
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## Professional Development activities

- Co-ordinator** 2007 - 2012: Special Assistance Programme (SAP), UGC Phase I: Funds Received: 48 Lacs.
- Co-ordinator** 2013 - till date - Coordinator - Special Assistance Programme (SAP), UGC Phase II: Funds Received: 74 Lacs.
- Co-ordinator** DST FIST programme Phase I: Funds received: 48 Lacs.
- Co-ordinator** 2012 - till date - DST FIST programme Phase II: Funds received: 1.85 crores.
- Co-ordinator** 2014 - Bachelor Vocational (B. Voc.) in Gemology and Jewellery Designing at the Skill Development Center, University of Pune, Pune Sponsored by UGC. Funds received: 1.85 crores.
- Co-ordinator** Certificate course on 'Advance and Innovative Techniques in Environment and Watershed Management' run under the Design Innovation Center, SPPU.
- Examiner** PhD Examiner in the subject of Geology and Environmental Science, for University of Delhi, University of Kolkata, Osmania University, Hyderabad, Indian Institute of Technology - Bombay (Mumbai), Shivaji University, Kolhapur etc. Solapur University, Solapur.
- Mentor** Initiated the Western Chapter of the Geological Society of India under the auspices of the Savitribai Phule Pune University.

## Infrastructural Development

- 1) Strengthening of the geochemical analytical facility at the Central Instrumentation facility of S.P. Pune University by addition of Laser Ablation ICPMS.
- 2) Strengthening of the Geochemistry Laboratory at Geology Department through the addition of analytical facilities such as AAS, HPIC, ED - XRF, ICP-OES, Micro-digestion, Millipore Water purification system.
- 3) Restructuring and strengthening of the Petrological Laboratory through the addition of Petrological Microscopes, Raman Microscopy, FTIR, Micro-cutting and polishing and powdering unit at Geology Department.
- 4) Completion of the expansion and renovation of the Environmental Science Department at SPPU.
- 5) Strengthening of the analytical Laboratory at the Department of Environmental Sciences, S. P. Pune University through the addition of analytical facilities such as AAS, ICP-OES, Real Time PCR, Micro-digestion, Millipore Water purification system.
- 6) Creation and development of Gem testing laboratory for the Bachelor of Vocation Degree Course in Gemology and Jewellery Designing.

## Consultancy Projects

- 2016 Biodiversity Assessment in and Around Kas dam for Satara Nagar Parishad (INR 1,50,000/-)
- 2016 Green Audit of the Engineering College, AISSMS, Pune (INR 1,20,000)
- 2013 Geological Mapping and Geochemical Characterization of the hot springs on west coast region of Maharashtra for Thermax Ltd, Pune. (Rs. 7,50,000/-)
- 2013 Salt water intrusion studies for the JSW Thermal Power Project Jaigad, Amount Sanctioned (Rs.5,00,000/-).
- 2012 Consultancy projects: Heavy Mineral Analysis for Adani Petrochemicals Ltd. Ahmadabad. (Rs. 4, 87, 000/-).
- 2012 Groundwater Exploration Development and Management at NIASM Watershed, Malegaon Khurd, Baramati (Rs. 600,000/-).
- 2010 Sedimentation studies for the Kalu River, Malshej Ghat for NTPC (Rs.1,200,000/-).
- On demand Consultancy for the projects such as tunnels and express way for Government of Maharashtra and GoI.

## Memberships of Professional / Academic Bodies

- Council-M Fellow** Council Member, Geological Society of India, Bangalore
- Fellow** Maharashtra Academy of Sciences, India.
- Fellow** Geological Society of India, Bangalore.



# Nitin R Karmalkar

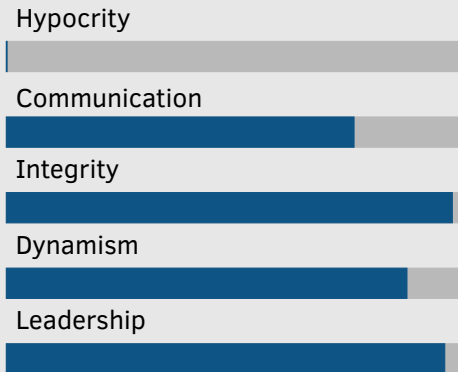
Professor & HoD, SPPU

- 11 January 1962
- SPPU, Pune, India
- +91 9823011747
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- nrkarmalkar@gmail.com

## About me

Prof Nitin R Karmalkar is a well known scientist in the field of Igneous petrology. He currently is working as Professor in Department of Geology and Head of Department of Environmental Science at SP Pune University, India. He also works as Director, IQAC and has been motivating academicians for embellishments towards quality assurance. This provides him with blend of strong academic/research experience with administrative expertise.

## Skills



Amicability\*5.8 Administration\*5.7  
Transparency\*5.9

(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert). The rating is done by Prof Karmalkar and is part of self-assessment.]

## Memberships of Professional / Academic Bodies

- Member Gondwana Geological Society Nagpur.
- Member Mineralogical Society of India, Mysore.
- Member IGCP project 240 on 'Mantle Dynamics related to Tethyan Collision'
- L-Member Life Member Indian Geotechnical Society, New Delhi.
- EC-Member Executive Council Member Indian Geotechnical Society, Pune Chapter.
- Expert Subject expert for the award of Major research projects of the UGC, MoES and DST.
- Member Board of Studies in Geology, SPPU, 2010-2013.
- Member Research and Recognition Committee in Geology since 2010.
- I-Member Invited Member Board of Studies in Environmental Sciences, SPPU
- Member Board of Studies in Geology, Mumbai University, since 2011.
- Member Research and Recognition Committee, North Maharashtra University Jalgaon.
- Member Research and Recognition Committee, Shivaji University Kolhapur.

## Invited Talks

- 2013 Flood Basalts a journey through the Deccan Trap- Invited lecture in the National workshop on 'Dharwar to Deccan Traps An integrated Geoscientific approach' between 29th and 31st August 2013, jointly organized by the SRTM University Nanded and Indian Geophysical Union, Hyderabad.
- 2012 Mantle-derived ultramafic xenoliths from Kutch, NW India: Petrogenetic constraints on the nature of Sub-continental Lithosphere - Invited lecture in the National workshop on 'Geology of Kutchh' Organized by the Department of Geology Kutchh University Gujarat jointly with Geological Society of India between 26th and 28th January 2012.
- 2011 Deccan Traps - Invited lecture in the International Workshop on Deep Scientific Drilling to Study Reservoir Triggered Earthquakes in Koyna, India - held at Hyderabad and Koyna between 21st and 25th March 2011.
- 2007 Mantle Xenoliths as probes to the Earth's Interior - Kelkar Memorial Lecture of the Deccan Volcanological Society Pune.

## Papers Presented

- 2017 M. K. Jonnalagadda, N. R. Karmalkar, and Shivani Harshe, Morphology and chemistry of Cr Spinel from the peridotites of the Spontang Ophiolite Complex, Ladakh: insights into the petrogenesis of mantle peridotites presented at the European Geoscience Union General Assembly 2017.
- 2016 M. K. Jonnalagadda, N. R. Karmalkar and R. A. Duraiswami, Quartz-Coesite phase transformations in garnet from Tso Morari Eclogites, Ladakh, NW Himalayas, India: Evidence from Raman Spectroscopy presented at the International seminar on Mineral Processing Technology MPT 2016 - Innovations in Mineral Processing.
- 2013 M. Jonnalagadda, N. R. Karmalkar and R. A. Duraiswami, Petrography and Geochemistry of the UHP eclogite enclaves from the Tso Morari Crystalline Complex, NW Himalaya, India: Insights into subducting and exhumation process presented at the National Seminar on Synergy of Geochemistry, Geology and Geophysics towards natural and energy resources, environment and health at Pune.
- 2011 M. Jonnalagadda, N. R. Karmalkar and R. A. Duraiswami, Significance of the atoll garnets from the eclogites of Tso Morari Complex, Ladakh, India in understanding the Himalayan Subduction process presented at the National Seminar on Geodynamics and Metallogensis of the Indian Lithosphere and AGM of Geological Soc of India, Varanasi.
- 2006 N. R. Karmalkar, R. A. Duraiswami, P. K. Sarma, S. P. Chauhan and M. K. Jonnalagadda, Peeping into the Interior of the Western Continental Margin of India: A xenolith based perspective presented at Group Discussion on The Evolution Of The Indian Continental Crust And Upper Mantle: Recent Advances And Future Thrust, Hyderabad.



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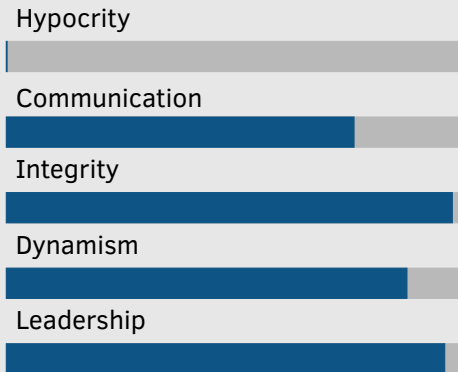
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## Papers Presented

- 2006 N. R. Karmalkar and R. A. Duraiswami, Alkaline Magmatism from Parts of Kutch and Murud Janjira area presented at Group discussion on Indian Dykes at Banaras.
- 2006 N. R. Karmalkar, R. A. Duraiswami, P. K. Sarma, S. P. Chauhan and M. K. Jonnalagadda, 'Origin and composition of the sub-continental lithospheric mantle beneath Kutch' Presented at National Seminar on 'Origin and Evolution of the Deep Continental Crust' Pune.
- 2006 N. R. Karmalkar, R. A. Duraiswami, Hofmann A. Unusual rift related carbonatite magmatism from Southern Malawi, Southeast Africa and its implications in crustal evolution, Presented at National Seminar on 'Origin and Evolution of the Deep Continental Crust' Pune
- 2006 Mallika. J, N.R. Karmalkar, R.A. Duraiswami, Magmatic Underplating as a crust building process: Evidence from the sills in Kutch, Gujarat, NW India, Presented at National Seminar on 'Origin and Evolution of the Deep Continental Crust' Pune.

## M.Sc. Dissertations Supervised

- 2014 Petrography and Geochemical characterization of the ultramafic enclaves emplaced within the gneissic complex of Nilambur, Kerala (Ms. Neha Bhawe - 2014).
- 2013 Geochemical characterization of the Unhavare hot springs near Dapoli, Ratnagiri district, Maharashtra (Ms. Shraddha Jagtap - 2013).
- 2012 Petrographic and Geochemical characterization of the igneous intrusion at the Ghumeri near Lakhpat, Kutch, Gujarat, NW India (Mr. Stephen Abhang - 2012).
- 2012 Petrography and Geochemical characterization of the gabbro sequence from the Nidar Ophiolite Complex, Eastern Ladakh, NW Himalayas, India (Mr. Kapil Bhagwat - 2012).
- 2011 Petrography and geochemistry of the Sasawne dyke near Alibaug, Maharashtra (Ms. Ragi Nair - 2011).
- 2009 Petrographic and Geochemical characterization of impactites and impact glass associated with Lonar crater (Ms. Sneha rode - 2009).
- 2006 Petrography and geochemical characterization of the dyke rocks from the Kutch region, NW India (Ms. Mallika Jonnalagadda - 2006).
- 2002 Petrography of the alkaline rocks from Sarnu-Dandali, District, Barmer; Rajasthan. India (Mr. Vilas Bhoskar - 2002).
- 2001 Petrography of the Felsic and Basic units from Musala Pluton of the Mundwara Igneous Complex, District Sirohi, Rajasthan (Ms V. Tharthare -2001).
- 2001 Geology of the Toa Pluton Mundwara Igneous Complex Sirohi District Rajasthan (Ms. Zuchano Jami - 2001).
- 1994 Petrology and Geochemistry of the dyke rocks from Mandaleshwar region, Khargaon District, Madhya Pradesh (Mr. R.A. Duraiswami - 1994).

## Awards

- 2005 'Prof. C. Naganna Gold Medal' of the Mineralogical Society of India (Mysore) 2005 for contributions in the field of Alkaline Magmatism of the Kutch region, Gujarat.

## Ph.D's Guided

- 2015 Petrographic and geochemical studies of dykes from parts of Narmada-Tapi dyke swarm, Deccan Volcanic Province (DVP), India. Bibhas Sen
- 2014 Petrography and Geochemistry of the Ultra high pressure (UHP) eclogite enclaves from the Tso Morari Dome, Ladakh, NW Himalaya, India. Mallika Jonnalagadda
- 2008 Petrography and Geochemistry of ultramafic xenoliths in the alkaline rocks from Kutch, Gujarat and their bearing on the mantle beneath Kutch- R.A. Duraisawmi





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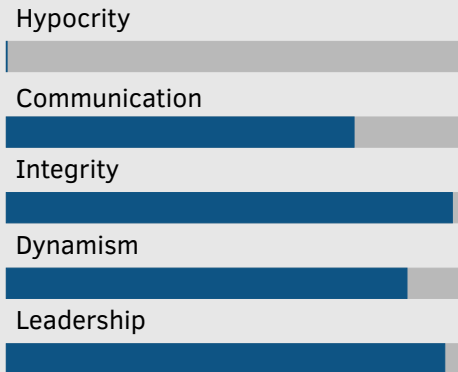
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## Ph.D's Guided

2007 Industrial Characterization and petrogenesis of pegmatitic rocks from Hadda region, Republic of Yemen

## Ph.D's Ongoing

- Current Characterization of the alkaline magmatism associated with the NW Deccan Volcanic Province, India- P.K. Sarma.
- Current Petrography and Geochemistry of the alkaline rocks of the Rajpipla and surrounding area of Bharuch district Gujarat- S.P. Chauhan
- Current Engineering geological assessment of mass wasting prone areas of Mahabaleshwar and surrounding areas, District Satara, Maharashtra. - Yogesh Pacchhapurkar.
- Current Geochemical fingerprinting of the Ophiolite sequence from Khoy Ophiolite Sequence Islamic Republic of Iran - Parisa Javadisabet.
- Current Petrographic and geochemical studies of the alkaline-carbonatite igneous complexes from Gujarat and Rajasthan states, India with special reference to their economic potential - Sagar Kamble.

## Research Projects completed

- 2001 DST sponsored project entitled: Petrography and geochemistry of basic and ultrabasic rocks from Bhandara Craton, Central India. (2001) (PI- N.R. Karmalkar).
- 2000 Project Title: "Geochemical characterization of the alkaline complexes associated with the Deccan volcanic province, in parts of Gujarat and Rajasthan states, India." Principal Investigator: Prof. N.R. Karmalkar (Amount sanctioned: Rs. 16.12 lakhs).
- 2000 Petrographic and Geochemical characterization of eclogites from Tso-Morari crystallines from Eastern Ladakh. Principal Investigator: Dr. N. R. Karmalkar (Amount sanctioned: Rs 3,00,000/-).
- 2015 DST sponsored project entitled 'Mineralogical and Geochemical attributes of the magmatic rocks of Island belt, Kutch, Gujarat: Implication on the early Deccan Volcanism and nature of sub-continental mantle.'(Amount sanctioned: Rs 16,00,000/-).
- 2015 Sponsoring Agency: ONGC Energy Centre, New Delhi. "Studies on Naturally Occurring Uranium in Sedimentary Rocks for Possible extraction as Nuclear Fuel". Project Investigator: Dr. N. R. Karmalkar.(Amount sanctioned: Rs 38,00,000/-).
- 2016 DST sponsored project on "Petrographic and Geochemical characterization of the Nidar Ophiolite Complex, Ladakh Himalaya" Principal Co-Investigator: Prof. N.R. Karmalkar (Amount sanctioned: Rs. 11 lakhs).

## Ongoing minor and major research projects

- MoES MoES sponsored project entitled "Petrographic and geochemical fingerprinting of the select ophiolite sequences from Himalayan and Naga Ophiolite belt". (PI- Dr. N.R. Karmalkar) (Amount Sanctioned: 60 lakhs) - Sanctioned.
- ONGC ONGC Energy Centre (OEC), New Delhi sponsored project entitled Proof of concept on "investigation on microbial and bioleaching of uranium from secondary uranium deposits. (PI- Dr. N.R. Karmalkar) (Amount Sanctioned: 15 lakhs)"- Sanctioned.
- UGC UGC Sponsored through UPE Grants project entitled "Capacity building in biodiversity assessment of Western Maharashtra. (PI- Dr. N.R. Karmalkar) (Amount sanctioned: Rs: 24 lakhs)".
- MOES Surface geological Investigations of Koyna-Warna region to evaluate neotectonism with the emphasis on Quaternary sediments (using remote sensing technique) MOES GoI 15.33 Lakh

-- (Professor Nitin R. Karmalkar)