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Education

- Ph D (2009-2013) Environmental Geochemistry from Manipal University.
Dissertation: Major ion, trace element and organic carbon geochemistry of river Nethravati, southwest coast of India.
- Master of Science (Earth Science and Resource Management) from Department of Applied Geology, Kuvempu University, Shivamogga, Karnataka
- Bachelor of Science (Chemistry, Botany and Zoology), Sahyadri Science College, Kuvempu University, Shivamogga, Karnataka.

Work Experience

- Scientist-B (Apr 2017 to present), Birbal Sahni Institute of Palaeosciences, Lucknow
- Postdoctoral Research Fellow (Sept 2013 - Mar 2017), MCNS, Manipal University, Manipal
- Ph D Research Scholar (Jan 2012 to Jul 2013), Manipal University, Manipal
- French Ph D Sandwich Fellow (Jun 2011 to Dec 2011) GET, Toulouse France
- Senior Research Fellow (Jul 2010 to Jun 2011), MIT, Manipal University, Manipal
- Junior Research Fellow (Jul 2008 to Jul 2010), MIT, Manipal University, Manipal

Research publications (peer-reviewed)

- 13 Tripathi S., Tiwari, M., Lee, J., Khim, B.-K., and **IODP Expedition 355 Scientists**, 2017. First evidence of denitrification vis-à-vis monsoon in the Arabian Sea since Late Miocene. *Scientific Reports*, 7:43056. <http://dx.doi.org/10.1038/srep43056>
- 12 **Gurumurthy GP.**, Tripti M., Prakayath R., Riotte J., Balakrishna, K., (2017). Impact of water-particle interactions on molybdenum budget in humid tropical rivers and estuaries: insights from Nethravati, Gurupur and Mandovi river systems. *Chemical Geology* 450, 44-58.
- 11 Pandey, D.K., Clift, P.D., Kulhanek, D.K., Andò, S., Bendle, J.A.P., Bratenkov, S., Griffith, E.M., **Gurumurthy, G.P.**, Hahn, A., Iwai, M., Khim, B.-K., Kumar, A., Kumar, A.G., Liddy, H.M., Lu, H., Lyle, M.W., Mishra, R., Radhakrishna, T., Routledge, C.M., Saraswat, R., Saxena, R., Scardia, G., Sharma, G.K., Singh, A.D., Steinke, S., Suzuki, K., Tauxe, L., Tiwari, M., Xu, Z., Yu, Z. (2015). *Arabian Sea Monsoon*. Proceedings of the International Ocean Discovery Program, 355: College Station, TX (International Ocean Discovery Program). <http://dx.doi.org/10.14379/iodp.proc.355.2016>
- 10 Tripti M., Lambs L., **Gurumurthy G.P.**, Balakrishna K., Chadaga MD (2016). Water circulation and governing factors in humid tropical river basins in the central Western Ghats, Karnataka, India. *Rapid Communications in Mass Spectrometry*, 30, 175-190.
- 9 **GP Gurumurthy**, K Balakrishna, M Tripti, J Riotte, S Audry, J-J Braun, HN Udayashankar (2015). Sources and processes affecting the chemistry of subsurface waters along a tropical river basin, Southwestern India. **Environmental Earth Science**, 73:333–346.
- 8 **GP Gurumurthy***, K Balakrishna, M Tripti, J Riotte, S Audry, J-J Braun, HN Udayashankar (2015). Use of Sr isotopes as a tool to decipher the soil weathering processes in a tropical river catchment, Southwestern India. **Applied Geochemistry**, 63, 498-506.
- 7 Pandey, D.K., Clift, P.D., Kulhanek, D.K., Andò, S., Bendle, J.A.P., Bratenkov, S., Griffith, E.M., **Gurumurthy, G.P.**, Hahn, A., Iwai, M., Khim, B.-K., Kumar, A., Kumar, A.G., Liddy, H.M., Lu, H., Lyle,

- M.W., Mishra, R., Radhakrishna, T., Routledge, C.M., Saraswat, R., Saxena, R., Scardia, G., Sharma, G.K., Singh, A.D., Steinke, S., Suzuki, K., Tauxe, L., Tiwari, M., Xu, Z., Yu, Z. (2015). Arabian Sea Monsoon: Deep sea drilling in the Arabian Sea: Constraining tectonic-monsoon interactions in South Asia. Integrated Ocean Drilling Program: Preliminary Reports, (355), pp. 6-46.
- 6 **GP Gurumurthy**, M Tripti (2015). Geochemical perspectives on river water of tropical basins, Southwestern India. In: Environmental Management of River Basin Ecosystems, (eds. Ramkumar M, Kumaraswamy K, Mohanraj R), Springer-Verlag, Heidelberg, Germany, 329-353.
 - 5 **GP Gurumurthy**, K Balakrishna, M Tripti, J Riotte, S Audry, J-J Braun, HN Udayashankar (2014). Geochemical behaviour of trace elements in a monsoon dominated humid tropical river basin, southwestern India. Environmental Science and Pollution Research, 21:5098-5120.
 - 4 M Tripti, **GP Gurumurthy**, K Balakrishna, M Chadaga (2013). Dissolved trace element biogeochemistry of a tropical river, Southwestern India. Environmental Science and Pollution Research, 20(6): 4067-4077.
 - 3 M Tripti, L. Lambs, T Otto, **GP Gurumurthy**, R Teisserenc, I Moussa, K Balakrishna, J-L Probst (2013). First assessment of water and carbon cycles in two tropical coastal rivers of south-west India: an isotopic approach. Rapid Communications in Mass Spectrometry, 27: 1681-1689.
 - 2 **GP Gurumurthy**, K Balakrishna, J Riotte, J-J Braun, S Audry H N Udayashankar, Manjunatha B R., (2012). Controls on intense silicate weathering in a tropical river, southwestern India. Chemical Geology, 300-301, 61-69.
 - 1 L Lambs, **G P Gurumurthy**, K Balakrishna (2011). Tracing the sources of water using stable isotopes: first results along the Mangalore-Udupi region, southwest coast of India. Rapid Communications in Mass Spectrometry, 25, 2769-2776.

Conference (International)

- 6 **GP Gurumurthy***, M Tripti, J Riotte, R Prakyath, K Balakrishna (2016). Nonconservative behaviour of dissolved molybdenum in tropical estuarine systems, west coast of India. Goldschmidt 2016 held at Yokohama, Japan between June 26 and July 01, 2016.
- 5 K Balakrishna*, **GP Gurumurthy**, M Tripti, J Riotte, S Audry, JJ Braun & HN Udayashankar (2014). Use of Sr Isotopes as a Tool to Decipher the Soil Weathering Processes in a Tropical River Catchment, Southwestern India. Goldschmidt 2014 held at Sacramento, California between June 09 and June 13, 2014.
- 4 **GP Gurumurthy**, H N Udayashankara *, K Balakrishna, M Tripti, J Riotte, S Audry, J-J Braun (2014). Particulate Metal Geochemistry of Nethravati Estuary, Southwest Coast of India. Goldschmidt 2014 held at Sacramento between June 09 and June 13, 2014
- 3 **GP Gurumurthy**, K Balakrishna, M Tripti, S Audry, J Riotte, JJ Braun, HN Udayashankar, (2012). Major ions and radiogenic strontium isotopic composition in a humid tropical river (Nethravati-Gurupur basin), Southwestern India. Geological Society of America Annual Meeting in Charlotte, USA.
- 2 **GP Gurumurthy***, K Balakrishna, J Riotte, M Tripti, J-J Braun, S Audry, HN Udayashankar (2011). Hydrogeochemistry of a small tropical river basin with special reference to ground water recharge estimation using conservative chloride mass balance method: a case study from southwest coast of India. American Geophysical Union (AGU) Fall meeting 2011, San Francisco, California, USA.
- 1 **GP Gurumurthy***, K Balakrishna, J Riotte, J-J Braun, S Audry, HN Udayashankar (2010) Extreme silicate weathering in a tropical river, southwest coast of India, Supplement of *Geochemica et Cosmochimica Acta*, v 74, A367 (Goldschmidt 2010, Knoxville, USA).

Conference (National)

- 5 **GP Gurumurthy***, M Tripti, J Riotte, R Prakyath, K Balakrishna (2016). Fluvial transfer of molybdenum in Tropical River and estuarine systems, west coast of India: constraints on marine molybdenum budget. National Geo-research Scholars meet 2016 held between June 01, 2016 and June 04, 2016 at

Wadia Institute of Himalayan Geology, Dehradun, India.

- 4 **GP Gurumurthy** (2016). "Weathering processes and fluvial geochemical transformation of weathered material in small west flowing rivers of the Western Ghats, South India" presented in a national workshop "Western Ghats: Evolution and Environmental Issues" held at National Centre for Earth System Sciences (NCESS), Trivandrum during January 01-02, 2016.
- 3 **GP Gurumurthy***, K Balakrishna, M Tripti, HN Udayashankar (2012). Hydro-geochemistry of subsurface water in a humid tropical river basin, southwestern India. Presented in National conference on Contemporary Civil Engineering Research and Practices (CCERP-2012) held at MIT, Manipal (April 20-22, 2012).
- 2 **GP Gurumurthy***, K Balakrishna, H N Udayashankar, M Tripti (2011). Flux of dissolved organic and inorganic carbon by a tropical west flowing river Nethravati, southwest coast of India. Presented in National conference on Recent Developments in Civil Engineering (RDCE-2011) held at MIT, Manipal (January 13 - 14, 2011).
- 1 **GP Gurumurthy***, K Balakrishna, H N Udayashankar (2011). Major ion, trace element and organic carbon geochemistry of river Nethravati, southwest coast of India. Manipal University, Manipal (January 15, 2011).

Research Projects (as Principal Investigator)

1. Geochemical Behaviour of Platinum Group of Elements (PGE) and Micronutrients in Selected Indian Estuaries and Open Ocean Waters
Funding Agency: Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India.
2. Probing the Evolution of Late Miocene bottom water Oxygenation: a Stable Metal Isotope Constraints IODP-India (Post-Cruise Research Funding), National Centre for Antarctic and Ocean Research (NCAOR), Ministry of Earth Sciences, Government of India

Awards and Fellowships

- Goldschmidt 2016 Student Grant to participate in Goldschmidt 2016 at Yokohama, Japan.
- SERB-DST International Travel grant to participate in ISOCAMP-2013 and Goldschmidt 2016.
- Young Scientist Research Grant, Science and Engineering Research Board (SERB), Govt. of India.
- University of Utah, USA scholarship of USD2495 to participate in a short course on "Stable Isotope Biogeochemistry and Ecology (ISOCAMP)" held between June 03 and June 14, 2013 at University of Utah, Salt Lake City, Utah, USA.
- French Ph D Sandwich (Currently Raman-Charpak) Fellowship 2011, Science and Technology Service, Embassy of France in India. New Delhi.
- International Association of Geochemistry (IAGC), USA - Ph D student research grant (USD500) awardee for 2010.

Summer school participation

1. Participated in a short course on "Stable Isotope Biogeochemistry and Ecology (ISOCAMP-2013)" held during June 03- 14, 2013 at Department of Biology, University of Utah, Salt Lake City, USA.
2. Participated in a workshop on "School of Analytical Chemistry-2012 (SAC-5)", held on November 03- 11, 2012 at Department of Chemistry, Indian Institute of Technology, Roorkee, India.

Ocean Expedition

1. Participated in International Ocean Discovery Program (IODP) 355 Arabian Sea Monsoon Expedition conducted between March 31, 2015 and May 31, 2015.