

SRINIVASA RAO YAMMANI
 Professor of Geology
 Chairman, Board of Studies & Dean: Faculty of Science
ADIKAVI NANNAYA UNIVERSITY
 Rajahmundry – 533 296, A.P., India

1. Name : SRINIVASA RAO YAMMANI
 2. Residential Address : Shanthi Residency, FF-2, 5th flr, Syamala Nagar,
 Rajahmundry - 533103, A.P.,
 3. Date of Birth : 02.06.1966
 4. Designation : Professor
 6. Office Address : Dept. of Geosciences, Adikavi Nannaya University,
 Rajahmundry - 533296
 7. Nationality : Indian
 8. Educational Qualifications:

- GIS applications in Geosciences**, Indian Institute of Remote Sensing, Dehradun, India 1998
Doctor of Philosophy, Sri Venkateswara University, Tirupati, India 1994
Master of Philosophy, Sri Venkateswara University, Tirupati, India 1990
Master of Science (Geology), Annamalai University, Tamilnadu, India 1989
Bachelor of Science (Geology, Botany and Chemistry), Nagarjuna University, A.P., India 1987

9. Teaching & Research (i.e., including Post-doc) Experience: 29Y

Sl. No	Position held	Institution/University	Period	No.of years	Nature of work
1	Professor	Adikavi Nannaya University	2014 onwards	9.8	Teaching & Research
2	Associate Professor	Adikavi Nannaya University	2008 to 2014	6	Teaching & Research
3	CSIR-SRA (Pool Scientists' Scheme)	Sri Venkateswara University	2005 to 2008	3	Research & Teaching
4	DST-Young Scientist	Sri Venkateswara University	2001 to 2005	4	Research & Teaching
5	UGC-RA	Sri Venkateswara University	1995 to 2000	5	Research & Teaching

10. Academic administration Experience:

- | Position held | Period |
|---|----------------------|
| • Head: Dept of Geology/Geosciences | 24.11.22 onwards |
| • Chairman: Board of Studies for Geosciences | 03.08.2023 onwards |
| • Dean: Faculty of Science | 2012 onwards |
| • Member, Board of Research Studies | 15.03.23 onwards |
| • NSS, University Program co-ordinator | 21.09.23 onwards |
| • Chairman: Board of Studies for Geology | 2012 to 2023 |
| • Dean: Academic Affairs | Nov 2018 – Oct 2021 |
| • Dean: IT | Oct2018-Nov2018 |
| • Dean: CDC | 2015 to 2018 |
| • Principal: University College of Science & Technology | 2012 to 2015 |
| • Co-ordinator: University Library | 2010 to 2015 |
| • Head (I/C): Dept of Physics | 2014 to 2015 |
| • Head: Dept of Geology | 2012 to 2015 |
| • Head: Dept of Geoinformatics & Petroleum Exploration | 2010 to 2012 |
| • Co-ordinator: 5Y- Int- M Sc (Petroleum Expl) | 2008 to 2010 |
| • Member, AP State Level Expert Appraisal Committee, Ministry of Environment, Forest and Climate Change (SEAC, AP), Gazette ID: CG-DL-E-13052024-254183. Govt of India (MoEFCC) | 13.05.24 to 01.07.27 |
| • Regional Co-ordinator for APSET 2024 | 2024 |
| • Member, Academic Senate & Standing committee | 31.07.23 to 30.7.26 |

- Co-ordinator: AP Akademi of Sciences- Rajahmundry Reg.Center, 2013 - 2016
ANUR
- Research Co-coordinator: Research Cell 2010 to 2012
- Co-ordinator: TePP Outreach Counselling Center 2009 to 2010

11. Professional recognition, awards and fellowships received – (9)

- **Fellow** of AP Akademi of Sciences, Hyderabad 2014
- **Associate Fellow** of AP Akademy of Sciences, Hyderabad 2010
- **Senior Foreign Researcher Award** from Politecnico di Torino, **Italy** 2008
- **Associate Professor**, Arbaminch University, Ethiopia, Received appointment 2004
- **CSIR-SRA (Pool Scientist)**, Govt. of India, New Delhi 2004
- **Commonwealth Science Counsel's Travel Award** 2003
- **DST-Young Scientist's Project award**, Govt. of India 2001
- **UGC-Research Associateship**, Govt. of India 1995
- **University Merit Fellowship (For PhD Research)**, SV Univ., Tirupati, India 1992

12. Memberships of professional bodies (12)

- Member: BOS in Geology, Sri Venkateswara University (07.10.23 to 06.10.26)
- Member: BOS in Geology, Andhra University (02.07.2020 to 29.09.26)
- Member: Board of studies, Department of Geochemistry, Osmania University, Telangana state, India (2018-2020)
- International Association for Hydro-Environment Engineering and Research – Senior member
- Geological Society of America – USA (No. **9146022**)
- European Association of Environmental and Resource Economists (EAERE): Italy–Member (2010)
- International Association of Hydrological Sciences, UK: Member (8935)
- Indian Association of Environmental Management, India: Life membership (LM-1585)
- National Environmental Science Academy, India: Life membership (LM-1243)
- Indian Association of Hydrologists, India: Life membership, (LM-5/2002)
- Indian Water Resources Society, India: Life membership (LM-5131)
- Indian Society of Remote Sensing, India: Life membership (L-1822)
- International Association for Engineering Geology and Environment (IAEG)
- International Geoscience Education Organisation (IGEO)
- Young Earth Scientists Network (YES)

13. Research Interests

- Sustainable development and management of Mineral resources & Environment
- Climate Change and Water resources
- Human impact on Depositional Environments
- Applications of RS & GIS

14. Research Experience

- Exploration and management of Groundwater resources, applications of Remote sensing and GIS in geological, geomorphological, Groundwater and environmental studies.

15. Research projects:

- Integrated studies for laterite deposits identification and its significance on Palaeo-climate and Palaeo-environmental studies in parts of Prathipadu and Rajahmundry areas, EG District, AP – using RS & GIS, Funded by **RUSA**, Ministry of Education, Govt of India, through Govt of AP, Rs. 5 Lakhs (ongoing from June 2024)
- “Performance and Evaluation of Rainwater Harvesting Structures in Dosalavanka River Basin, Chittoor District, A.P., India” **Funded by Counsel of Scientific and Industrial Research, Govt. of India** (2008) under the CSIR-Pool Scientists Scheme
- “Fracture pattern modeling studies, Water Resources Information System (WRIS) development for the development and management of water resources in Ponnai river basin, A.P., India” **Under Young Scientists' Scheme funded by Dept. of Science & Technology, Govt. of India** (2005).
- “Remote sensing and GIS Applications in Groundwater prospects mapping in parts of Rajasthan and Madya Pradesh, India” for NRSA under Rajeev Gandhi drinking water mission (June, 2001)

- "A study of the impact of Industrial effluents and Trace metallic species in ground water of Chittoor Town, Chittoor district, Andhra Pradesh, India", for the **University Grants Commission Research Associateship**, at Sri Venkateswara University, Tirupati, Andhra Pradesh, India (June, 2000)
- "Ground Water potentiality and its quality suitability - using Remote Sensing and GIS", Chittoor area, Chittoor District, Andhra Pradesh, India" **Indian Institute of Remote Sensing**, Dept. of Space, Government of India, Dehradun, India (July 1998)
- "Hydrogeology and Some Environmental aspects of Niva river basin, Chittoor district, Andhra Pradesh, India", **Ph.D. thesis** submitted to **Sri Venkateswara University**, Tirupati. (June 1993)
- "Hydrogeology of Sri Kalahasti and its Environs, Chittoor district, Andhra Pradesh, India", **M.Phil dissertation** submitted to **Sri Venkateswara University**, Tirupati (December 1990)
- "Petrological and geochemical studies on Southern Extension of Kolar Gold Field, Maharajakadai, Tamilnadu, India", **M.Sc dissertation** submitted to Annamalai University, Chidambaram (1989)

16. Professional training courses and workshops attended (14)

- AI DAYS (AI for society), JNTU Hyderabad, 30-31 March 2024
- Faculty Development program "**Design Thinking**", Adikavi Nannaya University, on 21.06.2023.
- Training course on "**Advance course on River basin analysis**", 22nd to 27th June 2020, FTC-Kunju, GSI Training Institute
- Leadership Training workshop on "**Resource Mobilization strategies for the public universities of AP for Vice Chancellors, Registrars and Finance Officers**" (Govt of HE, AP) Administrative Staff College of India, Hyderabad, 27-28th October, 2015
- **iGEON workshop, University of Hyderabad, Hyderabad, India, 4th – 8th January, 2009**
- **Existing tools and related mapping software in geological, seismological, geomorphological, Remote sensing & GIS applications** (DST-Training course), University of Delhi, Delhi, India, 6th – 7th December 2007.
- **Groundwater flow and Mass transport modelling for assessment and management of Aquifers** (DST-Training course), Water Technology Centre, TNAU, Coimbatore, India, 13th–30th October, 2005.
- **Remote sensing in Agriculture with special emphasis on precision farming** (Dept of Space winter school), IARI, New Delhi, India, 17th March - 10th April, 2003.
- **Field training in Sedimentary terrain of the Cuddapah basin**, Sumadhura technologies Ltd., Hyderabad, India, 21st – 25th February, 2003.
- **Shear zones -mapping and analyses** (DST-Contact course), Sambalpur University, Orissa, India, 20th -29th December, 2002.
- **Modelling in Hydrogeology** (UNESCO-IHP International training workshop), Anna University, Chennai, India, 3rd - 7th December 2001.
- **Application of Remote sensing to Groundwater** (CARD-UNICEF Training program), RASS-Tirupati, India, 29th – 31 October, 1998.
- **Applied Geomorphology using Remote Sensing**, A contact course / Field Workshop (Department of Science & Technology, India), IIT (Indian Institute of Technology), Powai, Mumbai, India, 12th - 23rd January, 1998.
- **Human Resources Development and Technical aspects of Rural Sanitation and Drinking Water**, National Institute of Rural Development (Govt. of India), Hyderabad, India, 20th - 25th January, 1997.
- **Computer Applications and Information Management**, National Institute of Rural Development (Govt. of India), Hyderabad, India, 29th April - 10th May, 1996.
- **Mineral Exploration & Prospecting**, Department of Geology & Mining, Govt. Of Tamilnadu State, India, February 1989.

17. Seminars/conferences/ science programs conducted: (More than 10)

- Skill Development Program for conversion of field data into Thematic maps preparation using Epicollect and QGIS, Sri. Vundavalli Ravi kumar, Retired Director, Geological Survey of India, 3rd July 2023.

- Skill Development Program on "Geological Field training and data collection through mobile app (Epicollect), Sri. Vundavalli Ravi kumar, Retired Director, Geological Survey of India, and Prof. Y. Srinivasa Rao, 2nd July 2023,
- Endowment Lecture series on "Application of micropalaeontology in Hydrocarbon exploration", By Dr. A. Nallappa Reddy, Rtd Chief Geologist, ONGC, Chennai, 1st July 2023.
- National Webinar on” **Recent Advances in Instrumental Analytical techniques: Challenges, Solutions and Trends in Geochemical and Environmental Studies**” 18th June 2020
- National Seminar on "**Development and Sustainability of Earth Resources and Environment (DSERE 2011)**", 12-13 March 2011
- Conducted various events of National Earth day, National Science Day, Earth Science Olympiad 2012 and 2016
- Awareness programs to students, scientists, Prisoners and farmers under Technopreneur Promotion Programme (TePP) at CENTRAL JAIL, CIEF-KKD, ANUR-RJY, 2009 – 2012.

18. List of Publications (20)

- 1) Yammani, S.R., Nagabathula, S. (2024): Assessing the level of river basin evolution, erosion susceptibility and its correlation with morphometric characteristics using Geoinformatics techniques. *Discov Geosci* 2, 26 (2024). <https://doi.org/10.1007/s44288-024-00029-x>.
- 2) NAGABATHULA, Sunanda and YAMMANI, Srinivasa Rao.(2024): Application of accuracy improvement algorithms for extraction of topographic information and drainage network from DEM using GIS. *Bulletin of Geography. Physical Geography Series*. Online. 3 June 2024. No. 26, pp. 35-51. <https://doi.org/10.12775/bgeo-2024-0003>.
- 3) Rajababu T, Reddy PHP and Srinivasarao Y (2022): Identification of fresh groundwater areas in the central Godavari Delta region, Andhra Pradesh, India - an integrated approach, *Current Science*, Springer publishers 122(09):1051–1057, (<https://www.currentscience.ac.in/show.issue.php?volume=122&issue=09>)
- 4) Durga Prasad, A., Falguni Bhattacharya, Gaurav Chauhan, Balaji, D., M.G. Thakkar, MG., Srinivasa Rao, Y., (2021): "Late-Quaternary Miliolite (biogenic carbonate) deposits and their implications towards sea-level fluctuations and climatic variabilities" *Journal of Earth Surface Processes and Landforms*, Wiley publishers 46(5):921-940.(IF: 3.694). <https://doi.org/10.1002/esp.5067>.
- 5) Adapa, D.P., Bhattacharya, F., Balaji, D., Thakar, M., **Yammani, S.R.**, and Juyal, N., (2018): Late quaternary paleo-environmental implications from the miliolite deposits of Kachchh paleorift basin, western India, *American Geophysical Union, Fall meeting 2018*, abstract #PP41E-180, Bibcode: 2018AGUFMPP41E1890A
- 6) G. Tamma Rao, Y. Srinivasa Rao, Ratnakar Dhakate, VVS Gurunadha Rao, J. Mahesh M.D. Prasad and L.Surinaidu (2014): Hydrogeochemical assessment of groundwater in alluvial aquifer region, Jalandhar District, Punjab, India, ***Environmental Earth Sciences Journal***, Springer publishers - <https://doi.org/10.1007/s12665-014-3973-3>.
- 7) B.Sekhar, Sk. Muntaz Begum, Y. Srinivasa Rao, Tirumala Rao, MC Rao, RVSSNR Kumar (2015): Applications of Transition metal ions doped PVA-capped CdSe Nanopolymers, *International Conference on Science and Engineering of Materials for future needs (ICSEMF-2015)*, ISBN 978-1-329-77555-8. 284-287pp
- 8) G. Tamma Rao, V. V. S. Gurunadha Rao, Y. Srinivasa Rao, G. Ramesh (2013): Study of hydrogeochemical processes of the groundwater in Ghatprabha river sub-basin, Bagalkot District, Karnataka, India, ***Arbian Journal of Geosciences***, Springer verlag, Vol. 6(7): 2447-2459, <https://doi.org/10.1007/s12517-012-0535-4>.
- 9) Y. Srinivasa Rao (2011): Editor of this issue: Development and Sustainability of Earth resources and Environment (DSERE-2011), ***International Journal of Earth Sciences and Engineering***, Vol. 4 (8) SPL, Dec. 2011 ISSN 0974-5904. (IF: 0.042)
- 10) Y. Srinivasa Rao (2008) “Identification of Influencing Factors for Groundwater Quality Variation-Using Multivariate Analysis” ***Journal of Environmental Geology, USA***, Vol. 55(1): 9-12, <https://doi.org/10.1007/s00254-007-0958-5>.
- 11) Y. Srinivasa Rao (2007): “Groundwater quality suitable zones identification – application of GIS, Chittoor area, A.P., India” ***Journal of Environmental Geology, USA***, Vol 53 (1): 200-210. Cite as: Yammani, S. *Environ Geol* (2007) 53: 201. <https://doi.org/10.1007/s00254-006-0634-1>.

- 12) Y. Srinivasa Rao, D.K. Jugran (2003): "Delineation of groundwater potential zones and Suitable zones of Groundwater quality for domestic purpose -Using Remote Sensing and GIS", **Hydrological Sciences Journal**, UK, Vol. 48(5):821-834. <https://doi.org/10.1623/hysj.48.5.821.51452>.
- 13) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (2000): "Groundwater targeting in Hard rock terrain using fracture pattern modeling through Remote Sensing Application", **Hydrogeology Journal**, USA, Vol. 8 (5), 494-502. <https://doi.org/10.1007/s100400000090>.
- 14) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (1997): "Hydrogeomorphological studies in Niva river basin, Chittoor District, Andhra Pradesh, India", **Journal of the Indian Society of Remote Sensing (Photonirvachak)** India, Vol.25 (3), 187-194. <https://doi.org/10.1007/BF03024220>.
- 15) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (1997): "Groundwater quality in the Niva river basin, Chittoor District, Andhra Pradesh, India", **Journal of Environmental Geology**, USA, Vol.32 (1), 56-63. <https://doi.org/10.1007/s002540050193>.
- 16) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (1995): "Morphometric Analysis of Niva river basin, Chittoor District, Andhra Pradesh", **Journal of National Geographer**, Ahmedabad, India, Vol.XXX(1), 15-24.
- 17) T. V. K.Reddy, Y.Srinivasa Rao, P.T.Nayudu (1994): "Water quality Indices of Niva river, Chittoor District, Andhra Pradesh, India", **Journal of Encology**, India, Vol.9 (5), 4-8.
- 18) T. V.K.Reddy, Y.Srinivasa Rao, P.T.Nayudu (1993): "Integrated Deformation Model to locate Ground Water potential zones using Remote Sensing studies in the Niva River basin, Chittoor District, Andhra Pradesh", **Memoirs of the XXIVth Congress of International Association of Hydrogeologists**, Oslo, Norway, 655-661.
- 19) Y. Srinivasa Rao, T.V. Krishna Reddy, P.T. Nayudu (1993): "Impact of Industrial effluents on Ground water - A case study around Chittoor Town, Chittoor District, Andhra Pradesh", **Fresenius Environmental Bulletin**, Switzerland", Vol.2 (4), 179-184. (IF: 0.716)

19. Papers published in Proceedings (5)

- 1) B. Sekhar, Sk. Muntaz Begum, **Y. Srinivasa Rao**, Tirumala Rao, MCRao, RVSSNR Kumar (2015): Applications of Transition metal ions doped PVA-capped CdSe Nanopolymers, International Conference on Science and Engineering of Materials for future needs (ICSEMF-2015), ISBN 978-1-329-77555-8 (e-book).
- 2) **Y. Srinivasa Rao** (2004), AV Chandrasekhar, YP Reddy, PS Rao, RVSSNR Kumar and J Yamanchi (2004): Spectral studies of natural incrustation material grown in water pipe lines, Rayalaseema region, A.P., India", Asia-Pacific EPR/ESR symposium (APES '04), IISc, Bangalore, India, November 22-25, 2004
- 3) **Y. Srinivasa Rao** (2003): "An Integrated Approach Using Remote Sensing application For Identification and Management of Groundwater Potential Zones, Gargeya Vanka Basin, Chittoor District, A.P.", National symposium of ISPRS WG VII/3 workshop on Integrated Monitoring systems, Thiruvananthapuram, India, during 9-12 December, 2003.
- 4) **Y. Srinivasa Rao** (2003): "Analysis of fractures for groundwater identification & its management: an integrated approach using RS & GIS" Proceedings of international conference on "Groundwater in fractured rocks" sept 15-19, 2003, Prague, Czech Republic, Eds: Jioe Krasnu, Zbynak Hrkal & Jioe Bruthans, UNESCO series on groundwater No. 7 (2003)-ISBN-92-9220-002-X, 440PP.
- 5) **Y. Srinivasa Rao**, D. K. Jugran (2001): "Application of GIS in delineation of Ground water potential zone in Chittoor Area, A.P., India, Proceedings of **ISRS-2001** Symposium held at Ahmedabad, India, during 11th –13th December, 2001.

20. Papers presented/Attended at Seminars/conferences:

- National seminar "Earth A Bounty Planet", held at Sri Venkateswara University, Tirupati, during 13th-14th March, 2009.
- GIS Training program on Introduction to ArcGIS-I, during Jan23-24, 2009
- International conference "IISc Centenary conference" held at IISc, Bangalore, during 13th-16th December, 2008
- AP Science Congress "Emerging trends in Science & Technology", held at Osmania University, Hyderabad, during 14th-16th November, 2008,
- National seminar on "Advances in Hydrosociences" 10th – 11th March, 2008, Sri Venkateswara University, Tirupati

- International workshop on “Weather modification & cloud seeding technologies for Rain water enhancement 2005” pre-workshop, 7th January 2005, JNT University, Hyderabad, India.
- Asia-Pacific EPR/ESR symposium (APES `04), Indian Institute of Science, Bangalore, India, November 22-25, 2004
- National symposium of ISPRS WG VII/3 workshop on Integrated Monitoring systems, Thiruvananthapuram, India, during 9-12 December, 2003.
- International conference on "Groundwater in fractured Rocks" September 15-19, 2003, Prague, Czech Republic.
- ISPRS TC-VII Symposium "Resource and Environmental Monitoring" held at Hyderabad, India during 3-6th December 2002.
- National symposium on, "Advances in Remote sensing technology with special emphasis on High Resolution imagery (ISRS-2001 symposium), held at Ahmedabad, India, during 11th -13th December, 2001.
- National workshop on, "Water harvesting with special reference to Artificial recharge", held at Hyderabad, India, during 9th - 10th October, 2001.
- National symposium on, "Recent Developments in environmental Geosciences", held at Tirupati, India, during 9th - 10th October 1995.

21. Documentary in Youtube

- In search of a river – a documentary on Errakaluva, West Godavari district, Andhra Pradesh: <https://www.youtube.com/watch?v=wEczF4mjZzs>

22. Resource person at:

- Field Geological training to ONGC officers in East and West Godavari District surface geology, 17th March 2024.
- Invited talk (webinar) on "Applications of GIS and Remote sensing in Earth and Environmental Sciences" 4th April 2013, Lovely Professional University, Department of Geography
- Invited as a Resource person for a Refresher Course in Earth System and Exo-Meteorology, UGC-HRDC, Osmania University, Hyderabad on 26.08.2020 (Lr. No. RPL/HRDC/OU/2020, dated 20.08.2020, Prof. B. Srinagesh, Director) - Online lecture: 3.45pm-5.30pm
- Invited as a resource person for National workshop on Mathematical Modelling in Geographical Information Systems Applications, 28-30 March, 2011, from Prof. T. Sudha, VS University, Nellore
- Invited as a resource person for a National workshop on Aquifer Mapping and Management (Tier-II), 3-7th Feb, 2014 to talk on RS and GIS applications in aquifer mapping and management with case studies, from G. Sudarshan, Regional Director, SR-Hyd, Ir. No. T/11(2)/CGWB/SR/RGI Trainings/2013-14, dated 13.01.2014
- Invited as a resource person for a National Training program on Geospatial technologies and applications, 6-7th Feb, 2014, from Prof. T. Sudha, SPMVV, Tirupati to provide training on RS & GIS applications
- Invited lecture on “Remote sensing applications in Groundwater studies” on 13.09.2005, School of Forestry and Earth Sciences, Mizoram University, Aizawl.

22. Links in Academic websites

- ORCID ID: 0000-0001-7844-0223
- SCOPUS ID: 3148248
- Web of science RESEARCHER ID: E-9400-2011, AAM-8334-2021, IQV-6241-2023
- Vidwan id: 45059