

## Working Experience

1. PSN College of Engineering and Technology, Tirunelveli – Associate Professor, Civil Department – (27/02/2020 to 02/01/2023)
2. Vellore Institute of Technology, Vellore - Research Associate, CDMM – (04/01/2016 to 20/08/2019)
3. Veltech (VTRS), Chennai - Assistant Professor, Civil Department – (28/07/2012 to 25/04/2015)



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### Communication

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Usilampatti, Madurai  
(dt), Tamilnadu,  
India.  
Pin – 625 532

### Personal Details:

**Father's name:** Mariyappan.K

**Date of Birth:** 30-5-1989

**Age:** 26 Single

**Nationality:** Indian

**Languages Known:** English,  
Tamil

**Hobbies:** Swimming, Cricket,  
Video games, Music.

**Passport No:** **M1732361**

## Education

### PhD (Hyperspectral Remote Sensing & GIS)

**Year of Passing:** July 2015 - Sep 2019

**Institution:** Vellore Institute of Technology

**Title:** Environmental Impact Assessment on mining activities in the southern part  
of Tamil Nadu

### M.Tech (Remote Sensing)

**Year of Passing:** July 2010 – May 2012

**Institution:** Anna University of Technology, Tirunelveli

**CGPA:** 7.65 (First Class)

### B.E (Electrical and Electronics Engineering)

**Year of Passing:** July 2006 – April 2010

**Institution:** Bharathidasan Institute of Technology, Anna University, Trichy

**University:** Bharathidasan University, Tiruchirappalli, Tamil Nadu.

**CGPA:** 6.85 (First Class)

### HSC

**Year of Passing:** July 2005 April2006

**Institution:** Nadar Saraswathi Hr. Sec. School, Usilampatti

**Board:** Tamil Nadu State Board

**Percentage:** 80%

### SSLC

**Year of Passing:** July2003- April2004

**Institution:** Nadar Saraswathi Hr. Sec. School, Usilampatti

**Board:** Tamil Nadu State Board

**Percentage:** 93%

## Administration Experience

- (1) NAAC Coordinator in PSN College of Engineering and Technology – 3<sup>rd</sup> Cycle
- (2) College Website Handler
- (3) SSR Website Handler for Submitting and DVV clearance
- (4) Mentor for 20 Mentees
- (5) IQAC Coordinator
- (6) IDEA Hackthon Handler
- (7) Business Innovation and Incubation Centre – Assistant Manager
- (8) HoD Incharge
- (9) Organizer for Events
- (10) Submit the Funding proposal for PVTGs in DST

## Projects

### (11) Project inUG

**Title:** Closed loop control of buck-boost converter using PI controller

**Environment:** MATLAB

**Description:** Collect the power from the solar energy, convert the AC to DC and control it

### (12) Project inPG

**Title:** Landuse and Climate change impacts on the stream flow of the Tamirabarani river basin, Tamil Nadu.

**Environment:** ArcGIS 9.3, Arc SWAT, Arc View, MS Access

**Description:** To model how the Land use and Climatic change impacts affect the stream flow of the Tamirabarani basin using the ArcSWAT software.

## Conferences

1. Vignesh Kumar M, "Landuse and climate change impact on stream flow of the Tamirabarani river basin" presented in National conference (Wireless Sensor Networks and Applications) conduct at Manonmaniam Sundaranar University, Tirunelveli on 22-23<sup>rd</sup> Mar 2012.
2. Vignesh Kumar M and Kiran Yarrakula, "Nontronite Mineral Identification in Nilgiri Hills of Tamil Nadu Using Hyperspectral Remote Sensing", Presented in International conference (SET) conduct at VIT University, Vellore on 7-8<sup>th</sup> Nov 2016.
3. Vignesh Kumar M and Kiran Yarrakula, "Identification of the Alluvial soil deposit using hyperspectral imagery", Presented in National conference (Geospatial Technologies for Rural Development) conducted at Gandigram Rural Institute, Dindugal on 2-3<sup>rd</sup> Feb 2017. ISBN: 978-81-933316-3-7, pp: 148-152.
4. Vignesh Kumar M and Kiran Yarrakula, "Spatial distribution of Prosopis Juliflora Using the Fusion of Hyperspectral and Landsat-8 OLI Imagery", Presented in National conference (Climate Change an Agricultural Production) conducted at Bihar Agricultural University, Bhagalpur on 6-8<sup>th</sup> Apr 2017, ISBN: 978-93-86256-73- 7, pp:441-442.
5. Vignesh Kumar M and Kiran Yarrakula, "Comparative Analysis of Mineral Mapping for Hyperspectral and Multispectral Imagery", Presented in International Conference (Global Civil Engineering) conduct at UPM University, Malaysia on 26-28<sup>th</sup> July, 2017.
6. Vignesh Kumar M and Kiran Yarrakula, "Identification of Prosopis Juliflora using Hyperspectral Imagery", Presented

in International Conference (Geospatial Technologies for Natural Resource Management & Climate Change) conduct at NIRD, Hyderabad on 21-22<sup>nd</sup> Dec 2017.

7. Vignesh Kumar et al, "Communal Usage of Remote Sensing and Geographical Information system in Tamil Nadu, India" conduct at VIT on 28-29<sup>th</sup> July, 2019.

#### **Conference Organized and Book Published**

1. Vignesh Kumar M, "International Virtual Conference on Computational Engineering - 2022" organized the National conference at PSN College of Engineering and Technology, Tirunelveli on 18-19<sup>th</sup> Mar 2022. The accepted manuscripts was published with proceedings ISBN (978-93-93479-94-5) by Charulatha publications

#### **Patent Published**

1. Vignesh kumar M. (2022), "IOT BASED REALTIME LANDSLIDE MONITORING SYSTEM" – 202241003212 published on 04/02/2022

#### **Publications**

1. Vignesh Kumar M. (2022), "Identifying the spatial distribution of Prosopis Juliflora using Hyperion imagery" *Earth Science Informatics*, <https://doi.org/10.1007/s12145-021-00720-4> (SCI, UGC & TR – 2.878 and Scopus).
2. Vignesh Kumar M. (2022), "Environmental impact assessment of limestone quarry using multispectral satellite imagery" *Earth Science Informatics*, <https://doi.org/10.1007/s12145-022-00845-0> (SCI, UGC & TR – 2.878 and Scopus).
3. Vignesh Kumar M and Kiran Yarrakula. (2019), "Comparative Analysis of Mineral Mapping for Hyperspectral and Multispectral Imagery". *Arabian Journal of Geoscience* –Published (SCI, UGC & TR – 1.827 and Scopus).
4. Vignesh Kumar M and Kiran Yarrakula. (2019), "Enhancement of Limestone Mineral Identification Using Destriping Approach in Hyperspectral Imagery". *Arabian Journal of Geoscience*, 12(38), 1-14 (SCI, UGC & TR – 1.827 and Scopus).
5. Vignesh Kumar M and Kiran Yarrakula. (2019), "Comparative Classification Approach in Hyperion imagery". *Indian Journal of Geo Marine Sciences* - Published (SCI, UGC & TR - 0.496 and Scopus).
6. Vigneshkumar, M., and Yarrakula, K. (2018), "Titanium metal identification in southern region of Tamil Nadu using hyperspectral imagery". *Indian Journal of Geo Marine Science*, 47(10), 2100–2105 (SCI, UGC & TR - 0.496 and Scopus).
7. Kumar, M.V., and Yarrakula, K. (2017), "Comparison of efficient techniques of hyper-spectral image preprocessing for mineralogy and vegetation studies". *Indian Journal of Geo Marine Science*, 46(5), 1008–1021 (SCI, UGC & TR - 0.496 and Scopus).
8. Vigneshkumar, M., and Yarrakula, K. (2017), "Nontronite mineral identification in Nilgiri hills of Tamil Nadu using hyperspectral remote sensing". In *IOP Conference Series: Materials Science and Engineering*, 263(3), 1-13 (Scopus).
9. Vigneshkumar, M., and Yarrakula, K. (2017), "Spatial Distribution of Prosopis Juliflora Using the Fusion of Hyperspectral and Landsat-8 OLI Imagery". *Indian Journal of Ecology*, 44(5), 548–554 (UGC & Scopus).
10. Vignesh Kumar M and Karuppasamy. (2012), "Landuse and Climate change Impacts on the Stream flow of the Tamirabarani River Basin, Tamil Nadu". *International journal of Advanced Remote sensing and GIS*, 1(1), pp. 1-11.
11. Kiruthiha, Loshini, Thivyaand Vignesh Kumar. (2015), "Strengthening of Flexible Pavement using Egg Shell as a

Filler". *International Journal of Engineering Trends and Technology*, 21(10), 1-4.

12. Pradeepkumar., and VigneshKumar. (2015), "Surface and Ground Water Quality Analysis around Cooum River by Using Arc GIS Software". *International Journal of Innovative Trends in Engineering*, 4(1), 1-9.

### FDP/ Workshop

- 1) GPS Survey in Western Ghats area of Tirunelveli Forest Division, from 13.6.2011 to 5.7.2011.
- 2) National level workshop "Application of geo-informatics for assessment of Impact of Climate Change on Water resources" at Sathyabama University on 16.9.2011 to 17.9.2011.
- 3) Bhuvan Workshop held at IIITM, Trivandrum on 19 March 2012.
- 4) Workshop "Free Software for Better Geospatial Intelligence" on April 2012 at University of Kerala, Trivandrum.
- 5) Faculty development program "Teaching methodology" by Talent Sprint at Vel tech, Avadi, Chennai on July 2013.
- 6) Faculty development program "Advance software in civil engineering" at AUT, Trichy.
- 7) Workshop "Satellite image processing techniques" at VIT, Vellore on 27.3.2015 to 28.3.2015.
- 8) Workshop "Total station survey" at VIT, Vellore on 18.4.2015 to 19.4.2015.
- 9) A one-day workshop on MATLAB" facilitated by Dr. Umashankar S at VIT on 12/9/2015.
- 10) Participate workshop on "SPSS & AMOS for researchers" facilitated by Dr. Ramanan, Professor and Head, Department of Statistics, Presidency College, Chennai at VIT on 23/12/2015 to 24/12/2015.
- 11) Training program on "Hyperspectral remote sensing - mineral exploration" at NIT, Raipur from 01/07/2016 to 08/07/2016.
- 12) Organizing a one-day training program on "Hyperspectral Data Processing Techniques" at Centre for Disaster Mitigation and Management, VIT University, Vellore on 10/03/2017.
- 13) A virtual workshop "International Scientific Cooperation in Disaster Mitigation and Management" at VIT, Vellore on 20.2.2018

### Areas of Interest

Remote Sensing,  
Geographic Information System (GIS),  
Surveying,  
Hydrology,  
Environmental Science,  
Water Resource Engineering,  
Irrigation Engineering,  
Environmental Impact Assessment,

### Technical Skills

**Web Technology:** ASP.NET, HTML

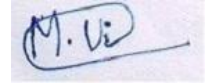
**Image Processing Software:** ERDAS 9.3 & 2015, ENVI 4.7 - 5.3, ArcGIS 9.3 -10.5, Micro station, Quantum GIS, SNAP and etc.

**Surveying instruments:** ASD Spectroradiometer, Total station, GPS, EDM, Dumpy level, Digital Theodolite, and other surveying & leveling instruments

## Declaration

I do hereby declare that the particulars of information and facts stated here in above are true, correct and complete to the best of my knowledge and belief. If, I have given an opportunity, I would do my best for the growth of your concern.

Yours Professionally



(Dr, M. Vignesh Kumar)

## References

1. Dr. Kiran Yarrakula,  
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