

# Dr. Yogesh Kumar Sariya

✉ [yogesh.sariya@gmail.com](mailto:yogesh.sariya@gmail.com)

☎ +91 - 9897756808

🏠 Pune - Maharashtra

🌐 <https://www.linkedin.com/in/yogesh-sariya-5795741a/>



## Education

- 2013 – 2018 **Ph.D., Indian Institute of Technology, Roorkee**, Uttarakhand 247667, India.  
Thesis title: *Functional Network Connectivity Analysis of Human Brain.*
- 2008 – 2010 **M.Tech., in Control and automation with 7.803 CGPA, Indian Institute of Technology Delhi** Hauz Khas, Delhi, India.  
Thesis title: *3D Target Tracking using Sensor Fusion.*
- 2003 – 2007 **B.E. Biomedical Engineering with 76.92%, Shri G.S. Institute of Technology & Science.** 23 Sir M. Visvesvaraya Marg, Indore, Madhya Pradesh 452003, India.  
Thesis title: *Indegenous Goniometer.*
- 2001 – 2003 **Senior Secondary with 79.3%, GMHSS**, Betul, Madhya Pradesh Board, Bhopal, India.
- 1999 – 2001 **Matriculation with 81.2%, GMHSS**, Betul, Madhya Pradesh Board, Bhopal, India.

## Teaching Experience

- 2022 – . . . . . **Assistant Professor**, at D Y Patil International University, Akurdi Pune, from February 2022.
- 2018 – 2021 **Assistant Professor**, at Shri Govindram Seksaria Institute of Technology and Science, Indore, from January 2018 to September 2021 under TEQIP-III scheme.
- 2010 – 2013 **Assistant Professor**, at Sagar Institute of Research and Technology, Bhopal, India, from August 2010 - June 2013.

## Research Areas

- Functional MRI Image Analysis.
- Signal and Image Processing
- AI in medical signals and Images.

## Research Publications

### Journals

- Sariya, Yogesh** and R. S. Anand, "Comparison of separation performance of independent component analysis algorithms for fMRI data," *Journal of Integrative Neuroscience* 16 (2017): 157-175.
- Nishant Jain, Arvind R. Yadav, **Yogesh Kumar Sariya** and Arun Balodi, "Analysis of Discrete Wavelet Transforms variants for the fusion of CT & MRI images", *The Open Biomedical Engineering Journal*. (EA-TOBEJ-2020-HT5-1806-19)
- Sariya, Yogesh** and R. S. Anand, "3D Templates for Resting State Networks Labeling," *Network: Computation in Neural Systems*, "Current opinion in neurobiology" (under review):
- Sariya, Yogesh** and R. S. Anand, "ICA based investigation of developmental changes of dynamic functional network connectivity in ASD," *Cognitive Neurodynamics* (Under review).

## Research Publications (continued)

---

### Conferences

- **Sariya, Yogesh** and R. S. Anand, "Assessment of social and cognitive dysfunction of autism spectrum disorder through functional network connectivity," in India Conference (INDICON), 2016 IEEE Annual, 2016, pp. 1-4.

### Patents

---

- One patent, titled " AUXILIARY FUNCTIONAL UNIT IN HOSPITAL BED FOR CHANGING PATIENT POSITION" is filed. Patent Application No. is 20222101146.
- One patent, titled " NOVEL COMPOSITION USING BIOLOGICAL PRODUCTS FOR THE SYNTHESIS OF ZINC OXIDE (ZnO) NANOPARTICLES HAVING MEDICINAL APPLICATIONS" is filed. Patent Application No. is 202221011721.

### External Sponsered Projects

---

- One AICTE sponsored project, titled " Indigenous Hospital Bed for differently abled population" worth 7.56 lakhs is completed under Collaborative Research Scheme. (working as PI).
- One AICTE sponsored project, titled " Biological Synthesis of Metal-oxide Nanoparticles using Natural Components as Nanomedicines for Anti-cancer Applications" worth 11.6 lakhs is completed under Collaborative Research Scheme. (working as Co-PI).

### Workshops Attended

---

- Attended five days "Summer Training Program" on "Advanced Pedagogy and Digital Tool" under TEQIP-III initiative held at Indian Institute of Technology Gandhinagar, during April 27-31, 2019.
- Attended three days "Short Term Course" on "Signal and Image Processing for Medical Applications" under TEQIP-III initiative held at Visvesvaraya National Institute of Technology Nagpur, during February 20-24, 2019.
- Attended five days "Faculty Induction Program" under TEQIP-III initiative held at Indian Institute of Technology Indore, during January 23-27, 2018.
- Attended three days "Short Term Course" on "Medical Imaging Techniques, Post Processing and Clinical Applications" under Continuing Education Programme held at Indian Institute of Technology Delhi, during April 14-17, 2017.
- Attended five days "Workshop" on "Brain, Computation, and Learning" held at Indian Institute of Science, Bangalore, during January 9-13, 2017.
- Attended three days "Workshop" on "Medical Imaging: Techniques and Image Processing" under Continuing Education Programme held at Indian Institute of Technology Delhi, during March 25 - 27, 2016.
- Participated five days "Short term Course" on "Comprehensive Electrocardiography" under MHRD scheme on Global Initiative of Academic Network (GIAN) held at Indian Institute of Technology Roorkee, during February 23-27, 2016.
- Attended two week "ISTE Workshop" on "Introduction to Research Methodologies" under National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Bombay, during 25th June \_4th July, 2012.

### Positions of Responsibility & Extracurricular Activities

---

- TEQIP and GATE Coordinator of Biomedical Engineering Department. (January 2018 - present)
- Faculty in-charge of Biomedical Instrumentation Laboratory. (January 2018 - present)

## Positions of Responsibility & Extracurricular Activities (continued)

- I was in team of State Level Volleyball Tournament (2000,2001).
- Intra bhawan volleyball coordinator & Captain of winner team (2016).

### Invited Lectures

- Delivered an expert talk on " Eigenvector Analysis, Principal Component Analysis and Independent Component Analysis", in the AICTE Sponsored STTP On Medical Signals, Processing and Analysis for Cognitive Research: A Practical Approach at Poojya Dodda Appa College of Engineering, Kalaburagi, Karnataka.
- Delivered an expert talk on "a naive look at Machine Learning", in AICTE Training and Learning (ATAL) Sponsored, Faculty Development Program On Artificial Intelligence: Algorithms and Applications at Poojya Dodda Appa College of Engineering, Kalaburagi, Karnataka.
- Delivered an expert talk on "Establishing The Biomarkers for Neurological Disorders", at Parul Institute of Engineering & Technology.
- Delivered an expert talk on " Eigenvector Analysis, Principal Component Analysis and Independent Component Analysis", at ATRIA institute of Technology, Belgaum, Karnataka.
- Delivered an expert talk on " Digital Systems and Future Aspects", at SIRTE, Bhopal, M.P.
- Chaired a technical session in the 2nd Electric Power and Renewable Energy Conference (EPREC-2021) organized by NIT Jamshedpur.

## Skills

- Languages ■ Reading, writing and speaking competencies for English, Hindi.
- Coding ■ MATLAB, Python,  $\LaTeX$
- Misc. ■ Academic research, teaching, training, consultation,  $\LaTeX$  typesetting and publishing.

### Certifications

- Completed NPTEL online certification for the course, titled, "Fuzzy Logic and Neural Networks" with a consolidated score of 88 %.

## References

### Dr. R. S. Anand

Professor  
Electrical Engineering Department,  
Indian Institute of Technology Roorkee.

✉ anandfee@iitr.ac.in

📞 +91-9412929250

📞 01332-285590

### Dr. P. Sumathi

Professor  
Electrical Engineering Department,  
Indian Institute of Technology Roorkee.

✉ p.sumathi@ee.iitr.ac.in

📞 +91-7579018983

📞 01332-285259

### Dr. P. P. Bansod

Professor  
Shri G.S. Institute of Technology & Science, indore  
23 Sir M. Visvesvaraya Marg, Indore, Madhya  
Pradesh 452003, India.

✉ ppbansod43@gmail.com

📞 +91-9406822037

📞 0731-2582358

### Dr. Deep Gupta

Assistant Professor  
Electronics & Communication Engineering Department,  
Visvesvaraya National Institute of Technology, Nagpur.

✉ deepgupta@ece.vnit.ac.in

📞 +91-7122801855