

**V. Chandrasekar**  
**University Distinguished Professor**  
**Colorado State University, Fort Collins, CO 80523-1373**

**Academic Preparation:**

B. Tech: Indian Institute of Technology, Kharagpur, 1981

Ph.D. Colorado State University, 1986

**Employment**

1982-1986: Research Assistant, Colorado State University (with assignments at NCAR and National Bureau of Standards, currently NIST)

1986-1989: Research Assistant Professor, Colorado State University

1989-1990: Assistant Professor, UAH

1990-current: Assistant, Associate Professor, and Professor Colorado State University

2014- Current University Distinguished professor.

**Awards and Recognition:**

1. Knighted by the Govt of Finland for promoting international scientific research with Finnish Government, academia and industry. Awarded in a special ceremony by the Finnish Ambassador.
2. AMS Suomi Technology Medal, 2023
3. Elected to National Academy of Inventors, 2020
4. IEEE, Distinguished Achievement Award, GRSS, 2019. Highest Award in the Society for Lifetime Achievement (Awarded in a ceremony attended by the Emperor of Japan in the IEEE flagship meeting in Yokohoma)
5. NASA Goddard Space Flight Center Robert H. Goddard Award, 2015.
6. NASA Agency Group Achievement Award, 2016 (for GPM Mission)
7. Selected as University Distinguished Professor, 2014
8. Elected Fellow AMS, (2005), IEEE (2004), AGU (2021), URSI (International Union of Radio Science 2018).
9. Elected International Chair of Union of Radio Science- Commission F 2017-2021
10. Elected Chair of Union of Radio Science for US (URSI) Commission F, USNC 2012-2015
11. Elected International Vice Chair URSI- Commission-F, 2015-2017
12. Distinguished professor of Finland, 2010- 2015, Currently Distinguished Visiting Professor
13. Oliver Pennok Distinguished Service Award, 2010
14. IEEE Education award, 2009
15. Preston Davis Award for Instructional Innovation, 2009
16. NWS/ NOAA Director's Medal of Excellence, 2007
17. MOES Chair Visiting Professor, Indian Institute of Technology, Kharagpur, 2017- 2019.
18. Institute Chair Visiting Professor, Indian Institute of Science, 2019-2020.
19. NASA Goddard Space Flight Center Distinguished Visiting Scientist, 2002
20. NASA Technical Innovation Award, 2002
21. Abell Award for International Research and Development Contribution, 2008
22. Abell Outstanding Researcher Award, 2001, 2006
23. President Sigma Xi Scientific Research Honor Society, CSU, 2002
24. Jack E. Cermak Outstanding Advisor Award, 2001

25. Distinguished Diversity services Award, 1999
26. Member, National Academy of Sciences panel on
  - a) Future generation weather radars, b) Radar based Flash Flood Forecasting,
  - c) Feasibility of Extending TRMM Mission, d) Met. Network of Networks (from the ground up).

### **Honors and Professional Activities:**

1. Research Director, CASA Engineering Research Center, 2003-2013
2. Director, CSU Radar Laboratories
3. Member, UN/ WMO Team for Shanghai Urban System Evaluation
4. General Chair, IEEE Geoscience and Remote Sensing Symposium, 2006
5. Member American Meteorological Society Science and Technology Committee ( Radar -1998-2003)
6. Chief Editor, Editor and Associate Editor of J Tech ( 2000-2015), Associate Editor, JAM Associate Editor, IEEE GRSS (Current)

### **Publications:**

Textbooks: Co-author of Three textbooks, 5 general purpose books, approx 300 Journal articles, H index, 66.

### **Patents:**

**20 patents in total, all licensed to industry.** Full List Available.

### ***Innovation and Entrepreneurship in Public sector***

#### **1980- Current; Dual-Polarization Radar and small radar Weather Radar Network:**

Championed for nationwide deployment of Dual-polarization Radar in public and private sectors (over 3 decades). This was the tough challenge, to change status-quo. Demonstrated the advantage of dual polarization for meteorological applications, conducted critical experiments at National Center for Atmospheric Research, in the 1980s then joined the CSU-CHILL team, and subsequently, worked with NOAA. Today there is a large several billion dollar , dual polarized Weather Radar Program with over 150 radars deployed nationwide and an additional hundreds in Europe and Asia. In summary, this effort has contributed to both scientific progresses, as well as economic development.

**CASA ERC, and small X band radar network, technology and systems.** This technology introduced through the CASA ERC has resulted a large X band (or small radar network market).

**Regional Observation Network Technology for Climate Adaptation:** This the most recent large scale synergistic system that combines observations and models to improve monitoring and forecasts of precipitation, streamflow, and coastal flooding in complex terrain, as Climate mitigation Strategy. implemented as a prototype in the San Francisco Bay area. This model is being repeated elsewhere in the world.