

## Anupma Prakash: Curriculum Vitae (abridged)

### My Personal Story

Born in India, I grew up with a focus on getting a good education, working hard, breaking barriers, and pursuing my dreams. This led me to attain a doctoral degree on using thermal remote sensing and numerical modeling to track and manage fires in underground coal mines, in a time when women were not permitted to enroll in a mining program. I was then invited to Europe to work on similar issues in China. My expertise and fundamental contributions continue to guide coal fire research around the world. I also expanded my research by monitoring geohazards and climate-driven landcover and land use changes in high-latitudes.

Europe shaped my professional and personal life as this is where I met my husband, Rudi, who is also a remote sensing scientist. We chose to work at the University of Alaska Fairbanks (UAF) as it provided unprecedented opportunities in Arctic research. I started at UAF as a faculty member and progressed to the ranks of a tenured professor, research director, interim dean, before serving as the provost and executive vice chancellor in 2018. In my executive role, I continued to shape international planning efforts through my work the National Academies of Sciences, Engineering, and Medicine's Polar Research Board, as well as guiding higher education quality and accreditation standards through my service for the Northwest Commission on Colleges and Universities.

Rudi and I have raised our two children, Tanja and Rishi, in Alaska and have together enjoyed every step of our personal and professional journey.

### Personal Information

Name	Anupma Prakash
Address	Office of the Provost and Executive Vice Chancellor 311 Signers' Hall; P.O. Box 757580 University of Alaska Fairbanks (UAF); Fairbanks AK 99775
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URL	<a href="https://uaf.edu/provost/">https://uaf.edu/provost/</a> ; <a href="https://anupma-prakash.github.io/">https://anupma-prakash.github.io/</a> (personal)
Languages	English (excellent); Hindi (mother tongue); German (fair)

### University Degrees, Certificates, and Academic Ranks

2019 to current	Honorary Commander of the 354 <sup>th</sup> Mission Support Group, United States Air Force 354 <sup>th</sup> Fighter Wing
2017 (summer)	Management Development Program from Harvard Graduate School of Education
2009 to 2018	Professor of Geophysics (Remote Sensing) at UAF
2010 (sabbatical)	Visiting Professor at Agricultural Research Services, USDA, Maryland
2002 to 2009	Associate Professor of Geophysics (Remote Sensing) at UAF
1998 to 2002	Assistant Professor, Geological Survey Division, ITC, the Netherlands
1996 to 1998	Post Doctoral Fellow, Applied Geomorphological Survey Division, ITC, Enschede, the Netherlands
1992 to 1996	PhD in Earth Sciences, Indian Institute of Technology - Roorkee (India)
1989 to 1991	MSc in Geology from Lucknow University (India)

## Administrative Appointments

2018 to current	Provost and Executive Vice Chancellor, University of Alaska Fairbanks
2015 to 2018	Director, National Science Foundation's Alaska EPSCoR Program
2018	Interim Dean, UAF College of Natural Science and Mathematics
2012 to 2018	Associate Dean, UAF College of Natural Science & Mathematics (CNSM)
2012 to 2018	Director, CNSM Division of Research
2011 to 2012	Co-Chair, UAF Department of Geosciences
2006 to 2012	Chair/ Co-Chair, UAF Remote Sensing Research Group
2000 to 2002	Dean of Students, Resource Management & Environmental Geology Program, ITC, The Netherlands
1991 to 1992	Interim Principal, Dayanand Vidya Mandir – a bilingual pre K-12 school in Lucknow (India)

## Selected Service as Administrator

2023 to current	Member, National Academies of Sciences, Engineering, and Medicine's Polar Research Board
2022 to current	Founding Member and now Chair: Policies, Regulations and Financial Review Committee for the Northwest Commission on Colleges and Universities, Institutional accrediting body
2018 to current	Academic Leadership Institute: Redesigned and lead a high-impact year-long professional leadership institute for mid-career UAF employees
2021 to 2024	Trustee, Board of Trustee for the University Press Consortium (Colorado, Alaska, Utah, Wyoming)

## Teaching and Field Work

I have twenty years of teaching experience in higher academia. I taught upper undergraduate and graduate level classes in remote sensing, global positioning system, and geographic information systems.

I have also garnered twenty-five years of geologic field experience. These include mapping efforts in India, China, Belgium, Spain, Cuba, and many parts of Alaska.

## Research (major achievements)

- Established HyLab: An airborne and field-based hyperspectral imaging facility at UAF
- Co-edited a 4-volume book series on coal and peat fires around the world
- Planned National Academy of Sciences workshop on wildfire management
- Carried out preparatory science for NASAs HypIRI satellite mission

During my tenure at UAF, I worked on 48 different research projects that amounted to over \$66 million in research funding.

## Advising and Mentoring

I mentored five post-doctoral fellows and over thirty Masters and PhD students as primary advisor. I directly supported the research of another 50 secondary and postsecondary students.

## **Awards, Honors and Ranks**

I have received many teaching and research awards. The two that I am most proud of are the 2010 Terris and Katrina Moore Prize for outstanding research at the Geophysical Institute (I was the first female recipient), and the 1996 Khosla Research Prize for my early and outstanding published research on detecting underground coal mine fires. Since 2019, I have also had the privilege to serve as an Honorary Commander for the US Air Force, 354<sup>th</sup> Mission Support Group.

## **Research Publications**

My research and teaching experiences are published and broadly shared through 6 edited books, 72 journal articles and book chapters, 21 conference articles, and over 200 conference posters or presentations that I have authored.