



# Michael Lefsky

REMOTE SENSING SCIENTIST  
FOREST ECOLOGIST

## Professional Summary

Professor in Remote Sensing Science with 30 years experience, pioneer in estimating forest biomass with lidar, and recent experience in Python and Google Earth Engine I seek a science-oriented remote sensing position addressing adaptation to global climate change

## Core Competencies

Development of remote sensing applications in the natural resources field

Demonstrated ability to apply core remote sensing concepts to the development of novel sensor technologies and data analysis methodologies

Experience in training undergraduate, masters and doctorate level students for positions in remote sensing

## Contact Details

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80521

## Work Experience

### PROFESSOR

#### COLORADO STATE UNIVERSITY • 2002-

- Developed undergraduate and graduate curricula for introductory and advanced remote sensing courses and seminars
- Successfully won and managed \$8M in competitively reviewed federal grants as PI, primarily from NASA and NSF
- High research impact (14k+ citations, h-index of 40, Source: Google Scholar)
- Promoted at earliest opportunity from assistant professor to associate professor and from associate professor to full professor

### RESEARCH ASSISTANT PROFESSOR

#### OREGON STATE UNIVERISTY • 1999 - 2002

### RESEARCH FORESTER

#### USDA FOREST SCIENCES LABORATORY • 1997 - 1999

## Academic Profile

### UNIVERSITY OF VIRGINIA

#### PHD, ENVIRONMENTAL SCIENCE, 1997

- Dissertation topic: Application of lidar remote sensing to the estimation of forest canopy and stand structure.
- Advisor: Hank Shugart
- Supported by NASA Earth Science Fellowship

### SIMONS ROCK OF BARD COLLEGE

#### B.A., ENVIRONMENTAL SCIENCE, 1989

- Undergraduate thesis topic: Reconciling Gleasonian and Clementsian perspectives on forest succession using hierarchy theory

## Skills and Abilities

- Programming and analysis in IDL, Python, R
- Extensive experience with exploratory data analysis, decision trees, time series, clustering, classification, regression, inferential statistics, multiple anova and regression,
- Validation and calibration of remotely sensed data products using statistical and physical models
- Experience with discrete return and waveform lidar, Landsat, MODIS, AVHRR, high spatial resolution imagery
- Demonstrated competence in researching and writing consequential academic papers
- Successful grant writer
- Academic review of papers and proposals