

# Peter W. Tittmann

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## Summary

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Geographer with 15+ years of experience leading and contributing on multidisciplinary teams of scientists, economists, and engineers in forestry, energy and carbon markets. Direct development and deployment of integrated methodologies combining geodata, remote sensing, and optimization modeling for sustainable forest management and investment decision-making. Chair industry standards development and conduct scientific review processes for biomass carbon removal projects. Proven track record translating research innovations into production systems supporting \$500M+ in climate investments.

## Work Experience

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### Carbon Direct

*New York, NY (remote)*

SENIOR SUSTAINABLE BIOMASS SCIENTIST

2025

- Review biomass-based carbon dioxide removal projects globally against wide range of quality standards and methodologies integrating artificial intelligence with domain expertise
- Chair W3C Community Group creating Biomass Open Origin Standard for Tracking (BOOST) data standard for biomass chain of custody
- Cross-functional collaboration between scientists, engineers, and economists
- Contribute to strategic development of geospatial applications and tools

### New Forests

*San Francisco, CA*

ASSOCIATE DIRECTOR, INVESTMENT ANALYTICS

Jan. 2016 - 2024

- Lead analytics team supporting \$500M+ in timberland investments through financial modeling and multi-objective optimization
- Manage cross-functional team of analysts in operations research, data science, finance and forestry for asset management and acquisition due-diligence
- Implement LiDAR-based forest inventory methodologies meeting carbon offset verification standards
- Operationalize machine learning models for forest measurement using satellite and airborne remote sensing data
- Design optimization frameworks for timber valuation and ecosystem service quantification
- Present technical analysis to executive leadership and institutional investors
- Oversee forest carbon offset project development across multiple geographies and forest types
- Implement cloud-based analytical pipelines for carbon credit quantification and reporting
- Build, deploy and maintain web applications for parallelized forest growth modeling using Kubernetes, Docker, and CI/CD pipelines
- Collaborate with software development teams on geospatial analysis and greenhouse gas accounting tools

### Arbos

*Oakland, CA U.S.A*

PRINCIPAL CONSULTANT

2004 - 2017

- Geo-data mining the US for forest carbon offset credits @ 250m spatial resolution
- Authored "VCS: Tool for measuring above-ground live forest biomass using remote sensing", approved by Verified Carbon Standard, 2015
- Tested multiple LiDAR-based methods for timber inventory
- Wildfire severity analysis in industrial timberland
- Led design and development Sacramento River watershed geographic data library

### Center for Forestry, University of California Berkeley

*Berkeley CA, U.S.A*

ACADEMIC COORDINATOR

Dec. 2013 - June 2017

- Evaluated economic and technical viability of wood biomass utilization technologies for energy and other applications
- Conducted public workshops and stakeholder outreach communicating complex technical information on wood energy technologies to diverse audiences including community organizations, small businesses, and policymakers
- Built capacity among community organizations and small businesses for wood energy projects through technical assistance and training programs
- Conducted time and motion research on novel timber harvesting and fuels reduction technologies
- Developed policy and legislation supporting utilization of residuals from timber harvest and processing

### Energy Biosciences Institute, University of California Berkeley

*Berkeley CA, U.S.A*

ACADEMIC COORDINATOR

2011 - 2013

- Assisted with analysis, synthesis and report writing for comprehensive assessment of bioenergy feedstock potential and supply chain economics
- Contributed to interdisciplinary research team analyzing technical and economic feasibility of advanced biofuel production pathways
- Supported quantitative analysis of biomass resource availability and logistics optimization for sustainable energy systems

## Energy Institute, University of California, Davis

Davis, CA U.S.A.

POST-DOCTORAL SCHOLAR

June 2011 - Dec. 2013

- Successfully applied for and co-managed \$40M research grant from United States Department of Agriculture investigating short-rotation woody crops as an energy feedstock for bio-fuels

## Institute for Sustainable Forestry

Arcata, CA U.S.A

FORESTRY PROJECT MANAGER

2003 - 2006

- Obtained grant funding for community wildfire protection planning and implementation projects
- Lead sawyer, project manager, grant writer for forest health and fire hazard reduction projects

## California Coastal Commission

San Francisco, CA U.S.A

COASTAL PROGRAM ANALYST

2001 - 2003

- Developed a range of geospatial data products for oil spill prevention/response and surface water quality management in the Energy and Ocean Resources Unit

## Education

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### University of California, Davis

Davis, CA U.S.A

PH.D. IN GEOGRAPHY

Mar. 2005 - July 2011

- Dissertation Topic: Aerial laser scanning: Applications for forest biomass management
- Awarded 1-year fellowship at the UC Davis Graduate School of Management.

### University of California, Santa Cruz

Santa Cruz, CA U.S.A

B.A. IN ENVIRONMENTAL STUDIES

1995 - 1999

- Agroecology emphasis
- Tropical Agroecology fieldwork and language study in Costa Rica

## Honors & Awards

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2009 **Recipient**, NASA Space Grant Fellowship

Davis, CA U.S.A

2011 **2<sup>nd</sup> place**, Cleantech Venture Challenge

University of  
Colorado, U.S.A

## Skills

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<b>Financial</b>	Investment analysis, due diligence, portfolio management, discounted cashflow modeling
<b>Climate &amp; Carbon Markets</b>	Offset protocols, verification standards, carbon removal, MRV systems
<b>Geospatial Analytics</b>	Remote sensing, LiDAR analysis, GIS systems, spatial modeling, satellite data
<b>Team Leadership</b>	Cross-functional teams, standards development, stakeholder management, technical presentations
<b>Data Science &amp; Engineering</b>	R, Python, SQL, machine learning, database administration
<b>Standards Development</b>	W3C Community Groups, protocol design, interoperability, supply chain transparency
<b>Technical Systems</b>	Web application development, cloud computing, Kubernetes, Docker, CI/CD pipelines
<b>Spoken Languages</b>	English, Spanish

## Training

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### MANAGEMENT, ENTREPRENEURSHIP AND INNOVATION

<b>Management</b>	New Manager Boot Camp, Haas School of Business, UC Berkeley
<b>Innovation</b>	Business Development Fellowship, UC Davis Graduate School of Management
<b>Clean Tech</b>	Clean Technology Entrepreneurship Academy, UC Davis Graduate School of Management