

# Maureen C. Kennedy

## Education

- Ph.D. **University of Washington, Seattle**  
Quantitative Ecology and Resource Management. March 2008  
*Multi-objective Optimization for Ecological Model Assessment and Theory Development*  
E. David Ford (chair), Tom Hinckley, Mark Kot, Charles Laird
- M.S. **University of Washington, Seattle**  
Quantitative Ecology and Resource Management. August 2002  
*A geometric simulation model of foliage regeneration in *Abies grandis* and *Pseudotsuga menziesii*.*  
E. David Ford, committee chair
- B.S. **University of San Francisco**  
Biology. May 1999.  
Summa Cum Laude.

## Publications

Kennedy MC, Ford ED. (in press). Using multi-criteria analysis of simulation models to understand complex biological systems. **BioScience**.

Ford ED, Kennedy MC. (2011). Assessment of uncertainty in functional-structural plant models. **Annals of Botany**. doi:10.1093/aob/mcr110

Johnson MC, Kennedy MC, Peterson DL. (2011). Simulating fuel treatment effects in dry forests of the western United States: testing the principles of a fire-safe forest. **Canadian Journal of Forest Research**. 41: 1018-1030. doi:10.1139/X11-032

Kennedy MC, McKenzie D. (2010). Using a stochastic model and cross-scale analysis to evaluate controls on historical low-severity fire regimes. **Landscape Ecology**. 25:1561-1573

McKenzie D, Kennedy MC. (2010) Scaling laws and complexity in fire regimes. Chapter 2 in McKenzie D, Miller C, Falk DA eds. **The Landscape Ecology of Fire**. Dordrecht, The Netherlands, Springer. *In press*

Kennedy MC. (2010). Functional-structural models optimize the placement of foliage units for multiple whole-canopy functions. **Ecological Research**. 25(4):723-732

Kennedy MC, Ford ED, Hinckley TM. (2010) Defining how aging *Pseudotsuga* and *Abies* compensate for multiple stresses through multi-criteria assessment of a functional-structural model. **Tree Physiology**. 30(1):3-22.

Kennedy MC, Ford ED. (2009). Two-criteria model assessment shows that foliage maintenance in old-growth *Pseudotsuga menziesii* requires both delayed and sequential reiteration. **Trees Structure and Function**. 23(6):1173-1187

Kennedy MC, Ford ED, Singleton P, Finney M, Agee JK. (2008) Informed multi-objective decision-making in environmental management using Pareto optimality. **Journal of Applied Ecology**. 45(1):181.

Lehmkuhl J, Kennedy M, Ford ED, Singleton PH, Gaines WL, Lind RL. (2007). Seeing the forest for the fuel: Integrating ecological values and fuels management. **Forest Ecology and Management**. 246: 73-80.

Ishii HT, Ford ED, Kennedy MC. (2007). Physiological and ecological implications of adaptive reiteration as a mechanism for crown maintenance and longevity. **Tree Physiology**. 27:455-462.

Kennedy MC, Ford ED, Ishii H. (2004). Model analysis of the importance of reiteration for branch longevity in *Pseudotsuga menziesii* compared with *Abies grandis*. **Canadian Journal of Botany**. 82: 892-909.

### **Professional Experience**

Research Scientist. University of Washington	2008-current
Course Instructor. University of Washington	2002-2005
Teaching Assistant. University of Washington	2002-2004, 2007
Research Assistant. University of Washington	2000-2008
Undergraduate Research Assistant. University of San Francisco	1998-1999
Teaching Assistant. University of San Francisco	1998-1999

### **Awards**

**Outstanding Research Assistant.** University of Washington College of Forest Resources Recognition Event. 2006.

**NCAA Outstanding Sportsperson of the Year National Nominee.** 1998-1999

**Charles Harney Award.** University of San Francisco. Awarded to the graduating athlete with the highest GPA. 1998-1999.

**Achievement Rewards for College Scientists Recipient.** University of San Francisco. 1998