

## **BRIAN KANE**

[bkane@eco.umass.edu](mailto:bkane@eco.umass.edu); <http://eco.umass.edu/people/faculty/kane-brian-c-p/>

### **Degrees:**

Ph.D. Forestry (2002) University of Massachusetts-Amherst

M.S. Forestry (1997) University of Massachusetts-Amherst

B.A. Political Science (1992) The College of The Holy Cross, Worcester, MA

### **UMass Employment:**

MA Arborists Association Asst. Prof. 09/04-08/10

MA Arborists Association Assoc. Prof. 09/10-08/16

MA Arborists Association Prof. 09/16-present

## **RESEARCH**

**Areas of specialization:** Tree biomechanics, tree worker safety

**Research Description:** Investigate the effect of arboricultural practice on the likelihood of failure of amenity trees. Investigate how climbing and rigging techniques and gear affect the likelihood of personal injury.

### **Current student research projects**

Sway response of tropical trees subjected to different pruning types, Dan Burcham, Ph.D.

Quantifying establishment period of street trees in Springfield, MA, Jaclyn Lim, M.S.

Comparing global arboricultural safety standards, Jamie Lim, M.S.

Can community volunteers prune young street trees? Ryan Fawcett, M.S.

Branch allometry of open-grown *Tilia cordata*, Justin Esiason, Honors thesis

### **Extramural Support for Research (since 2014):**

2018-2021	Kane	FL-ISA	\$90,000
2017-2020	Kane	TREE Fund	\$15,000
2017-2020	Kane et al.	FL-ISA	\$90,000
2017-2019	Kane	TREE Fund	\$25,000
2014-2017	Kane et al.	NUCFAC (USDA)	\$281,900
2014-2016	Burcham, Kane	NParks (Singapore)	\$262,500

### **Refereed Publications (since 2014):**

Kane, B. 2018. Urban Forestry & Urban Greening 34:78-84.

Kabir, E. S. Guikema, B. Kane. 2018. Reliability Engineering and System Safety 177:68-79.

Kane, B. 2018. Trees – Structure & Function 32:985-1000.

Centrangolo, I., S.R. Arwade, and B. Kane. 2018. Urban Forestry & Urban Greening 30:124-131.

Kane, B. 2017. Italus Hortus 24:23-31.

Kane, B. 2017. Chapter 27 In: Routledge Handbook of Urban Forestry. Taylor & Francis, NY, NY.

Kane, B. 2017. Chapter 16 In: Urban Forest Sustainability. International Society of Arboriculture, Champaign, IL.

Kane, B. 2017. Chapter 17 In: Urban Forest Sustainability. International Society of Arboriculture, Champaign, IL.

Kane, B. 2017. Urban Forestry & Urban Greening 24:14-18.

MacFarlane, D.W. and B. Kane. 2017. Functional Ecology 31:1624-1636.

Dahle, G., K. James, B. Kane, J. Grabosky, and A. Detter. 2017. Arboriculture & Urban Forestry 43:89-106.

Sherman, A., B. Kane, J. Harris, W. Autio, and H. Ryan. 2016. Urban Forestry & Urban Greening 19:95-102.

Harris, J.R., S.D. Day, and B. Kane. 2016. Urban Forestry & Urban Greening 18:19-24.

Kane, B., P.S. Warren, and S.B. Lerman. 2015. Urban Forestry & Urban Greening 14:1137-1146.

Reiland, M., B. Kane, Y. Modarres, and H.D.P. Ryan. 2015. Urban Forestry & Urban Greening 14:844-850.

Kane, B. and J.T. Finn. 2014. SpringerPlus 3:720.

Kane, B. 2014 Trees – Structure & Function 28:1667-1677.

Julius, A., B. Kane, M. Bulzacchelli, and H.D.P. Ryan. 2014. *Journal of Safety Research* 51:65-72.  
 Dahle, G., J. Grabosky, B. Kane, J. Miesbauer, W. Peterson, F.W. Telewski, A. Koeser, and G. Watson. 2014. *Arboriculture & Urban Forestry* 40:309-318.  
 Kane, B. and W. Autio. 2014. *Urban Forestry & Urban Greening* 13:443-449.  
 Ciftci, C., S.R. Arwade, B. Kane, and S. Brena. 2014. *Probabilistic Engineering Mechanics* 37:41-50.  
 Ciftci, C., B. Kane, S. Brena, and S.R. Arwade. 2014. *Trees – Structure & Function* 28:517-529.  
 Kane, B. Y. Modarres, K.R. James, and M. Reiland. 2014. *Trees – Structure & Function* 28:151-159.  
 James, K.R., G. Dahle, J. Grabosky, B. Kane, and A. Detter. 2014. *Arboriculture & Urban Forestry* 40:1-15.

**Non-refereed Articles (since 2014):**

Koeser, A., S. Guikema, B. Kane, and S. Landry. 2018. *Arborist News* 27(3):28-30.  
 Kane, B. 2018. *Arborist News* 27(2):56-57.  
 Kane, B. 2018. *Arborist News* 27(1):58-60.  
 Kane, B. 2018. TREE Fund Research Report 1(2):3-6.  
 Kane, B. P. Warren, and S. Lerman. 2016. *Arborist News* 25(2):24-26.  
 Kane, B. 2016. *TCI Magazine XXVII(2):30-31.*  
 Kane, B. 2015. *New England ISA Fall Newsletter* 4.

**TEACHING**

**UMass Teaching and Evaluations (2014/15-2017/18):**

Course No.	Title	Times Taught	Mean SRTI (10,11,12)
NRC 102	Arboriculture Field Techniques I	3	4.6
HNRS 391AH	Trees & Sustainability	4	4.4
NRC 210	Arboriculture Field Techniques II	1	4.7
NRC 305	Commercial Arboriculture	4	4.7
NRC 590A	Advanced Arboriculture	1	4.3
NRC 213	Arboriculture Field Techniques III	3	4.7
NRC 290C	Trees & Sustainability	2	4.6

**SERVICE**

**UMass highlights**

1. University Arboretum Committee (2012-present)
2. Search committee co-chair for Technical Supervisor I (2016)
3. Search committee co-chair for Lecturer in Arboriculture & Urban (2015)

**Non-UMass highlights**

1. International Society of Arboriculture Nominating & Elections Committee, Chair (2016-present)
2. International Society of Arboriculture Board of Directors (2013-2016)
3. Program committee 2<sup>nd</sup> European Arboricultural Congress (Torino, Italy) (2014)