



## Ryan Suttle

### Consulting Arborist & Urban Forester



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#### Education

University of Massachusetts, Amherst. Master of Science, Arboriculture & Urban Forestry

Santa Clara University. Bachelor of Arts, Environmental Science; Minors: Biology, Studio Art

#### Certifications

ISA Board Certified Master Arborist (WE-12647BU)

ISA Certified Utility Specialist

Tree Risk Assessment Qualification

#### Societies and Memberships

Western Chapter International Society of Arboriculture

International Society of Arboriculture

#### Volunteer Experience

Friends of the Urban Forest, San Francisco: Intern

Tree Northampton, Northampton MA: Tree Planter

Amherst, MA: Drafted Tree Ordinance for local government

#### Summary

Ryan Suttle comes to HortScience | Bartlett Consulting (H|BC) with a strong arboricultural background on various utility vegetation management projects on the West and East coast. He has experience conducting original and rigorous scientific research projects and presenting to international audiences. He has expertise in utility vegetation management, technical report writing, tree risk assessment, vegetation inventorying, and the intersection of arboriculture and technology.

#### Selected Project Experience

##### Amherst, MA

Ryan worked with a major Northeast utility company to assess tree conditions along their roadside electrical distribution rights of way throughout the state of MA, to be delivered to the state department of public utilities. Utilized GIS to map field sites and assign to inspectors, and conducted a novel quantification of utility forest tree benefits using i-Tree Eco.

##### Amherst, MA

Conducted novel pilot study research into the use of artificial intelligence technologies in arboriculture. Ryan assessed likelihood of failure for approximately 600 trees, and worked with a team of arboriculture and computer science researchers to train an artificial intelligence framework to classify likelihood of failure for trees using only a single photograph. Presented findings at the International Society of Arboriculture 2021 Virtual Conference.

##### Amherst, MA

Investigated effects of utility line clearance pruning on the size, value, and ecological function of trees in MA. This study compared utility pruned trees to trees pruned for other objectives in the landscape to investigate how, if at all, utility pruning may affect trees differently than other pruning objectives. This study expands the limited pool of utility arboriculture research represented in peer reviewed literature. Presented at the Utility Arborist Association Trees and Utilities Conference in 2021.

#### Previous Work Experience

##### Orion Managed Services, LLC: Quality Assurance Manager

Data manager for quality control and quality assurance for five territories on an enhanced vegetation management project in high fire threat areas of California. Built automated data error detecting algorithm to match field collected data to client scope using R statistical software.

##### UMass Amherst: Research Assistant and Arborist

Master's thesis research focused on effects of utility pruning on trees and additional research into the use of artificial intelligence in arboriculture. Inventoried trees in the UMass Amherst campus Waugh Arboretum, planned and led walking arboretum tours.

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