NSF BIOGRAPHICAL SKETCH

NAME: Chamberlain, Catherine

POSITION TITLE & INSTITUTION: PhD Candidate, Harvard University

(a) PROFESSIONAL PREPARATION

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
Michigan State University	East Lansing , MI	Zoology	BS	2013
Trinity College Dublin	Dublin, N/A	Biodiversity and Conservation	MS	2015
Harvard University	Cambridge, MA	Organismic and Evolutionary Biology	PHD	2021

(b) APPOINTMENTS

2016 - present PhD Candidate, Harvard University, Cambridge, MA
2020 - 2020 Guest Lecturer, Harvard Summer School, Cambridge, MA
2018 - 2020 Data Scientist, The Nature Conservancy, Northampton, MA
2018 - 2020 Teaching Fello, Harvard University, Cambridge, MA
2016 - 2020 Data Scientist and Citizen Science Program Facilitator, Arnold Arboretum of Harvard University, Boston, MA
2016 - 2016 Research Technician, Harvard University, Cambridge, MA
2015 - 2015 Researcher, Gorongosa National Park, Goinha

(c) PRODUCTS

Products Most Closely Related to the Proposed Project

1. Ettinger A, Chamberlain C, Morales-Castilla I, Buonaiuto D, Flynn D, Savas T, Samaha J, Wolkovich E. Winter temperatures predominate in spring phenological responses to warming. Nature Climate Change. 2020 October 19; Available from: https://doi.org/10.1038/s41558-020-00917-3 DOI: 10.1038/s41558-020-00917-3
2. Chamberlain CJ, Cook BI, García de Cortázar-Atauri I, Wolkovich EM. Rethinking false spring risk. Glob Chang Biol. 2019 Jul;25(7):2209-2220. PubMed PMID: 30953573.
3. Chamberlain CJ, Cook BI, Morales-Castilla I, Wolkovich EM. Climate change reshapes the drivers of false spring risk across European trees. New Phytol. 2020 Aug 7;PubMed PMID: 32767753.
4. Catherine Chamberlain, Benjamin Cook, Ignacio Morales-Castilla, Elizabeth Wolkovich. Climate change reshapes the drivers of false spring risk across European trees. 2020 March; Available from: https://doi.org/10.5194/egusphere-egu2020-5871 DOI: 10.5194/egusphere-egu2020-5871

Other Significant Products, Whether or Not Related to the Proposed Project

1. Furze ME, Huggett BA, Chamberlain CJ, Wieringa MM, Aubrecht DM, Carbone MS, Walker JC, Xu X, Czimczik CI, Richardson AD. Seasonal fluctuation of nonstructural carbohydrates reveals the

metabolic availability of stemwood reserves in temperate trees with contrasting wood anatomy. Tree Physiol. 2020 Oct 7;40(10):1355-1365. PubMed PMID: 32578851.

(d) SYNERGISTIC ACTIVITIES

1. Presented at the Ecological Society of America in 2020 titled "False spring damage on temperate seedlings is amplified with warming winters" and presented in a workshop at the Ecological Society of America in 2020 titled "New tools for analyzing and sharing wildlife camera images: machine learning and online databases to minimize time and maximize impact."

2. Offered 12 public lectures in Boston area to high school students, garden clubs and Arnold Arboretum members. Topics centered on tree research and the effects of climate change on New England forests.

3. Worked as a program leader for a citizen science program at the Arnold Arboretum where I trained public volunteers how to make phenology observations and record data.

4. Ran a public lecture series at the Arnold Arboretum where I educated students of various backgrounds on plant functioning, community ecology, and tree ID and field skills.

5. Worked alongside a team at the Nature Conservancy to draft and develop materials for family forest landowners. The manual and materials was created to educate landowners how to become a part of the Family Forest Carbon Program, which works to mitigate climate change and increase efficiency on forestland.