

# Mare Nazaire

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California Botanic Garden, 1500 N. College Avenue, Claremont, CA 91711  
909-625-8767 x 268, mnazaire@calbg.org

## EDUCATION

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- Ph.D., Botany** 2013  
Washington State University, Pullman, WA  
Advisor: Larry Hufford  
Dissertation: A phylogenetic analysis of the genus *Mertensia* (Boraginaceae): taxonomy, divergence times, and biogeography
- M.S., Plant Biology** 2005  
University of New Hampshire, Durham, NH  
Advisor: Garrett E. Crow  
Thesis: A study of the vegetation and floristic diversity of two peatland complexes of post-settlement origin in Lake Umbagog National Wildlife Refuge, Coos County, NH
- B.A., Plant Biology, with honors, *summa cum laude*** 2003  
University of New Hampshire, Durham, NH
- B.F.A. Graphic Design** 1990  
Maine College of Art, Portland, ME

## PROFESSIONAL EXPERIENCE

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- Research Assistant Professor** 2020–present  
Claremont Graduate University, Claremont, CA
- Administrative Curator** 2018–present  
RSA Herbarium California Botanic Garden, Claremont, CA
- Collections Manager** 2013–2018  
RSA Herbarium, California Botanic Garden, Claremont, CA
- Curatorial Assistant** 2009–2013  
Ownbey Herbarium, Washington State University, Pullman, WA
- Botanist/Editor** 2008, 2005–2007  
Ecological Restoration Institute, Northern Arizona University, Flagstaff, AZ
- Research Specialist** 2007–2008  
Southern Colorado Plateau Network, National Park Service, Flagstaff, AZ
- Botanist/Field Ecologist** 2005–2006  
Pacific Biodiversity Institute, Sonoran Desert, AZ
- Herbarium Assistant** 2002–2005  
Hodgdon Herbarium, University of New Hampshire, Durham, NH
- Research Intern** 2002–2003  
U.S. Fish and Wildlife Service, Lake Umbagog National Wildlife Refuge, Errol, NH

**Botanist Intern**

2001

U.S. Fish and Wildlife Service, Lake Umbagog National Wildlife Refuge, Errol, NH

**GRANTS & FELLOWSHIPS**

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**NSF, ICBR, DBI-2223877, \$95,532 (co-PI) 2022–2026**

Collaborative Research: Digitization and enrichment of US herbarium data from tropical Africa to enable urgent quantitative conservation assessments

**NSF, ICBR, DBI-2133561, \$482,523 (PI) 2022–2026**

Advancing the extended specimen network: Curating and digitizing the Sherwin Carlquist Collection

**NSF, ADBC, DBI-2101846, \$258,991 (co-PI) 2021–2025**

Digitization TCN: Collaborative Research: Bringing Asia to digital life: Mobilizing underrepresented Asian herbarium collections in the US to propel biodiversity discovery

**NSF, ADBC, DBI-2001358, \$149,959 (PI) 2020–2023**

Digitization PEN: Augmenting the Endless Forms TCN: Digitization of imperiled plants with unique morphological adaptations

**USDA National Institute of Food and Agriculture, Hispanic Serving Institution’s Education Grants Program 2015-38422-24058/1007104, \$25,000 (PI) 2020**

Building bridges between classrooms and collections at CalBG: A pilot study

**NSF, ADBC, DBI-1901889, \$149,828 (PI) 2019–2023**

Digitization PEN: Enhancing the SoRo TCN with collections of taxonomic, geographic, and historic significance from the Rancho Santa Ana Botanic Garden

**NSF, DBI-1746715, \$99,985 (co-PI) 2017–2023**

Engaging underrepresented populations in biodiversity sciences: A series of workshops for undergraduate students

**NSF, ADBC, DBI-1802312, \$95,766 (co-PI) 2018–2022**

Digitization TCN: Collaborative Research: Capturing California’s flowers: Using digital images to investigate historical and geographical phenological change in a biodiversity hotspot

**Foundation of the American Institute for Conservation of Historic and Artistic Works, \$7,000 2017**

Collections Assessment for Preservation (collections assessment of CalBG’s five collections)

**NSF, CSBR, DBI-1561648, \$346,030 (PI) 2016–2019**

Natural History: Engaging our future to preserve our past: curation and preservation of historically significant collections through student participation at the Rancho Santa Ana Botanic Garden

**NSF, CSBR, DBI-0956417, \$707,683 (Co-PI, added on to grant mid-project) 2013–2016**

Collaborative Project: Harnessing the power of herbaria to understand the changing flora of California: A biodiversity hotspot in peril

**Betty W. Higinbotham Award, \$1000 2013**

School of Biological Sciences, Washington State University, Pullman, WA

**Betty W. Higinbotham Award, \$1322 2012**

School of Biological Sciences, Washington State University, Pullman, WA

**Betty W. Higinbotham Award, \$2200 2011**

School of Biological Sciences, Washington State University, Pullman, WA

<b>Myrna P. Steinkamp Fund, Colorado Native Plant Society, \$1000</b>	2011
<b>Research Award, Washington Native Plant Society, \$600</b>	2011
<b>Margaret Williams Research Award, Nevada Native Plant Society, \$500</b>	2011
<b>Jack &amp; Martha Carter Conservation Award, Native Plant Society of New Mexico, \$1000</b>	2011
<b>NSF, Doctoral Dissertation Improvement Grant, DEB1110484, \$14,730</b>	2011
<b>NSF, East Asia and Pacific Summer Institute Fellowship</b>	2010
Biogeography and evolution of <i>Mertensia</i> in Asia and North America	
<b>Betty W. Higinbotham Award, \$3766.50</b>	2010
School of Biological Sciences, Washington State University, Pullman, WA	
<b>Noe Higinbotham Award, \$500</b>	2010
School of Biological Sciences, Washington State University, Pullman, WA	
<b>Hardman Native Plant Award, \$887.60</b>	2009
School of Biological Sciences, Washington State University, Pullman, WA	
<b>Betty W. Higinbotham Award, \$4545.79</b>	2009
School of Biological Sciences, Washington State University, Pullman, WA	
<b>Conrad Research Award, \$500</b>	2002
University of New Hampshire, Durham, NH	

## **PUBLICATIONS**

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- Nazaire, M.** *Mertensia*. In press. In Heil, K., and S. O’Kane [eds.], Flora of New Mexico. Missouri Botanic Garden Press, St. Louis.
- Briscoe, L., **M. Nazaire**, Allen, J.R., J. Baker, A.D. Davenport, J. Mansaray, C.A. McCormick, M. Santiago Coyle, and M. Schnull. 2022. Shining light on labels in the dark: guidelines for offensive collections materials. *Collections: A Journal for Museum and Archive Professionals* 18: 506–523.
- Sullivan, J.R. and **M. Nazaire**. 2021. Specimen collection and preparation for a changing flora. *Rhodora* 993: 50–66.
- Nazaire, M.** 2020. *Mertensia*. In Flora of Oregon. Volume 2: Dicots A – F. S.C. Meyers, T. Jaster, K.E. Mitchell, T. Harvey, and L.K. Hardison [eds.]. Botanical Research Institute of Texas Press.
- Yost, J. M., K.D. Pearson, J. Alexander, E. Gilbert, L. Aerne Hains, T. Barry, R. Bencie, P. Bowler, B. Carter, R.E. Crowe, E. Dean, J. Der, A. Fisher, K. Fisher, L. Flores-Renteria, C.M. Guilliams, C. Hatfield, L. Hendrickson, T. Huggins, L. Janeway, C. Lay, A. Litt, S. Markos, S.J. Mazer, D. McCamish, L. McDade, M. Mesler, B. Mishler, **M. Nazaire**, J. Rebman, L. Rosengren, P.W. Rundell, D. Potter, A. Sanders, K.C. Seltmann, M.J. Simpson, G.A. Wahlert, K. Waselkov, K. Williams, and P.S. Wilson. 2019. The California phenology collections network: using digital images to investigate phenological change in a biodiversity hotspot. *Madroño* 66: 130–141.
- Carlquist, S., and **M. Nazaire**. 2016. SEM studies of two riparian New-Caledonian conifers reveal air channels in stem wood; field observations. *Aliso* 34: 1–7
- Leubert, F., L. Cecchi, M.W. Frohlich, M. Gottschling, C.M. Guilliams, K.E. Hastenstab-Lehman, H.H. Hilger, J.S. Miller, M. Mittlebach, **M. Nazaire**, M. Nepi, D. Nocentini, D. Ober, R.G. Olmstead, F. Selvi,

- M.G. Simpson, K. Sutory, M. Valdes, G.K. Walden, and M. Weigend. 2016. Familial classification of the Boraginales. *Taxon* 65: 502–522.
- Nelson, G., P. Sweeney, L. E. Wallace, R. K. Rabeler, D. Allard, H. Brown, J. R. Carter; M. W. Denslow, E. R. Ellwood, C. C. Germain-Aubrey, E. Gilbert, E. Gillespie, L. R. Goertzen, B. Legler, D. B. Marchant, T. D. Marsico, A. B. Morris, Z. Murrell, **M. Nazaire**, C. Neefus, S. Oberreiter, D. Paul, B. R. Ruhfel, T. Sasek, J. Shaw, P. Soltis, K. Watson, A. Weeks, and A. R. Mast. 2015. Digitization workflows for flat sheets and packets of plants, algae, and fungi. *Applications in Plant Sciences* 3: 1500065.
- Hao, Z-Z., Y-Y. Liu, **M. Nazaire**, X-X. Wei, X-Q. Wang. 2015. Molecular phylogenetics and evolutionary history of sect. *Quinquefoliae* (*Pinus*): implications for Northern Hemisphere biogeography. *Molecular Phylogenetics and Evolution* 87: 65–79.
- Nazaire, M.**, X-Q. Wang, and L. Hufford. 2014. Geographic origins and patterns of radiation in *Mertensia* (Boraginaceae). *American Journal of Botany* 101: 104–118
- Nazaire, M.** and L. Hufford. 2014. Phylogenetic systematics of the genus of *Mertensia* (Boraginaceae). *Systematic Botany* 39: 268–303.
- Nazaire, M.** and L. Hufford. 2012. A broad phylogenetic analysis of Boraginaceae: implications for the relationships of *Mertensia*. *Systematic Botany* 37: 758–783.
- Dugan, F.M. and **M. Nazaire**. 2011. First report of rust of *Sidalcea malviflora* (dwarf checkerbloom) caused by *Puccinia sberardiana* in Washington State. *North American Fungi* 6: 1–5.
- Springer, J.D., M.L. Daniels, and **M. Nazaire**. 2009. *Field Guide to Forest and Mountain Plants of Northern Arizona: From the Mogollon Rim and White Mountains North*. Ecological Restoration Institute, Northern Arizona University, Flagstaff, AZ.
- Nazaire, M.** and G.E. Crow. 2008. A study of the vegetation and floristic diversity of two peatland complexes of post-settlement origin in Lake Umbagog National Wildlife Refuge, Coos County, New Hampshire. *Rhodora* 110: 296–344.

## MANUSCRIPTS IN REVIEW

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- Nazaire, M.** *Mertensia*. Flora of North America north of Mexico. Vol. 15: Magnoliophyta: Fouquieriaceae to Boraginaceae. New York and Oxford.
- Nazaire, M.** *Tiquilia*. Flora of North America north of Mexico. Vol. 15: Magnoliophyta: Fouquieriaceae to Boraginaceae. New York and Oxford.
- Nazaire, M.** *Lappula*. Flora of North America north of Mexico. Vol. 15: Magnoliophyta: Fouquieriaceae to Boraginaceae. New York and Oxford.

## MANUSCRIPTS IN PREP

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- Nazaire, M.**, and E. Wiley. Vascular flora of the Rademacher Hills, Kern County, California. – to be submitted in spring 2024 to Crossosoma.

## INVITED SPEAKER

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| Harvey Mudd College, Claremont, CA                     | <b>2022</b> |
| California Native Plant Society, Orange County Chapter | <b>2021</b> |

Southern California Botanists Symposium, Virtual Symposium	2020
iDigBio Miniseries: Climate of natural history collections during COVID-19, Virtual Symposium	2020
Nevada Native Plant Society, Reno, NV	2016
Regional Natural History Collection and Data Network for South Central California UC Santa Barbara, Santa Barbara, CA	2016
Botany Washington, Washington Native Plant Society, Sun Lakes State Park	2013
Idaho Native Plant Society, White Pine Chapter, Moscow, ID	2012
Washington Native Plant Society, Northeast Chapter, Spokane, WA	2011
Arizona Native Plant Society, Flagstaff Chapter, Flagstaff, AZ	2008

## **PRESENTATIONS AT PROFESSIONAL MEETINGS**

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- Nazaire, M. 2022. Advancing the extended specimen network: curating and digitizing the Sherwin Carlquist Collection. Innovations in Herbaria Session, California Native Plant Society Conference, San Jose, CA.
- Nazaire, M. 2022. Are you prepared? Preparation, response, and recovery in unanticipated disasters. Society for the Preservation of Natural History Collections Conference, Edinburgh, Scotland (virtual).
- Berkowitz, E, M. Nazaire, and D. Woo. 2022. Integrated pest management: holistic approaches to managing pests in herbarium collections. Society for the Preservation of Natural History Collections Conference, Edinburgh, Scotland (virtual poster).
- Nazaire, M. 2022. *Alexgorgea*: Recognizing a botanical legacy through a distinctive genus. Society for the Preservation of Natural History Collections Conference, Edinburgh, Scotland (poster).
- Nazaire, M. 2021. Building bridges between classroom and collections at California Botanic Garden: a pilot study. American Institute of Collections and Society for the Preservation of Natural History Collections Joint Conference (virtual).
- Briscoe, L., and M. Nazaire. 2021. Shining light on labels in the dark: guidelines for offensive collections materials. American Institute of Collections and Society for the Preservation of Natural History Collections Joint Conference (virtual).
- Nazaire, M. 2020. Endless Forms: Herbarium digitization of imperiled plants with extreme morphological adaptations. Southern California Botanists Symposium (virtual).
- Nazaire, M. 2019. Processing historic backlog: lessons learned. Society for the Preservation of Natural History Collections Conference, Chicago, IL.
- Nazaire, M. 2019. *Gymnocactus subterraneus*: a tale of two types. Society for the Preservation of Natural History Collections Conference, Chicago, IL.
- Nazaire, M. 2018. From Thorne to APG IV: reorganization of the digital and physical collections of the Rancho Santa Ana Botanic Garden Herbarium. Society for the Preservation of Natural History Collections Conference, Dunedin, New Zealand.
- Nazaire, M. 2018. From Integrating data quality feedback: a data provider's perspective. Society for the Preservation of Natural History Collections Conference, Dunedin, New Zealand.

- Nazaire, M. 2017. Engaging our future to preserve our past: curation and preservation of historically significant collections through student participation at the Rancho Santa Ana Botanic Garden Herbarium. Society for the Preservation of Natural History Collections Conference, Denver, CO.
- Nazaire, M. 2016. Preservation of natural history collections through student engagement: the internship experience at Rancho Santa Ana Botanic Garden. Society for the Preservation of Natural History Collections Conference, Berlin, Germany.
- Nazaire, M. 2015. Consortium of California Herbaria workflows. iDigBio Herbarium Workflows Workshop, Valdosta, GA.
- Nazaire, M. 2015. To collect or not to collect: the importance of herbarium collections in the context of rarity. Rare Plant Session, California Native Plant Society Conference, San Jose, CA.
- Nazaire, M. 2014. Digitizing the collections and archives of Marcus E. Jones. Global Plants Initiative, Panama City, Panama (poster).
- Nazaire, M., and L. Hufford. 2013. Geographic origins and patterns of radiation in *Mertensia* (bluebells). Symposium on Biogeography, Botany 2013, New Orleans, LA.
- Nazaire, M. 2013. Diversification in *Mertensia* (Boraginaceae): with an emphasis on Pacific Northwest species. Botany Washington 2013, Coulee City, WA.
- Nazaire, M., and L. Hufford. 2012. The phylogenetic relationships of *Mertensia*: implications for taxonomy and inferring cryptic diversity. Symposium on Asteridae, Botany 2012, Columbus, OH.
- Nazaire, M., L. Hufford. 2011. A broad phylogenetic analysis of Boraginaceae: implications for the relationships of *Mertensia*. Symposium on Asteridae, Botany 2011, St. Louis, MO.

## TEACHING EXPERIENCE

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<b>Research Assistant Professor, Claremont Graduate University</b> <i>BOT420 Floristic Methods</i>	<b>2023</b>
<b>Instructor, California Botanic Garden</b> <i>The Pressed Plant</i> (workshop)	<b>2014, 2020, 2022</b>
<b>Instructor, California Botanic Garden</b> <i>Aquatic Plants of Southern California</i> (workshop)	<b>2015, 2019</b>
<b>Instructor, California Native Plant Society Conference</b> <i>The Pressed Plant</i> (workshop)	<b>2018</b>
<b>Teaching Assistant, School of Biological Sciences, Washington State University</b> <i>General Biology</i> (undergraduate lab)	<b>2008, 2009</b>
<b>Instructor, Arizona Native Plant Society</b> <i>Plant Identification and Writing Botanical Keys</i> (workshop)	<b>2008</b>
<b>Teaching Assistant, Department of Plant Biology, University of New Hampshire</b> <i>Systematic Botany</i> (undergraduate lab)	<b>2004, 2005</b>
<b>Teaching Assistant, Department of Plant Biology, University of New Hampshire</b> <i>Biodiversity: A Phytogeographical Perspective</i> (graduate lecture and lab)	<b>2004</b>
<b>Teaching Assistant, Department of Plant Biology, University of New Hampshire</b> <i>Systematic Botany</i> (undergraduate lab)	<b>2002, 2003</b>

## TRAINING, MENTORING, AND ADVISING

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Manage a department of 11 curatorial staff, interns, graduate research assistants, and ~20 volunteers as the Administrative Curator of the RSA Herbarium. I directly supervise the following staff:

LeRoy Gross (Curatorial Assistant III), Rhay Flores (Workroom Manager), Carrie Baldwin (Digitization Technician), Sydney Kaye (Curatorial Assistant I), Sara Dave (Project Manager), Ray Vilchis, Ixchel Maston, Ivy Jordan, Maheen Khan, Stephanie Quintanilla, Karrie Chung (Interns)

Graduate students: *in progress* - Kim Schaefer (MS, 2021–present); Rachel Tageant (MS, 2022–present); Garrett Goodrich (MS, 2023–present)

Graduate student committees: completed - Maria Jesus (MS, 2018–2021); Christina Varnava (MS, 2018–2021); Nina House (MS, 2019–2022)

## EDUCATION & COMMUNITY OUTREACH

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**Herbarium Specimen Preparation Workshop, Ridgecrest, CA** **December 2022**  
Led workshop on techniques in mounting and specimen preparation to 17 participants at the Maturango Museum.

**Maturango Museum Annual Wildflower Show, Ridgecrest, CA** **April 2019, 2022**  
Plant identification for the wildflower show.

**Broadening Participation in the Biodiversity Sciences, Albuquerque, NM** **November 2019**  
Organized and co-lead workshops and career shadowing event for undergraduate students at the New Mexico Museum of Natural History and Science.

**Broadening Participation in the Biodiversity Sciences, Flagstaff, AZ** **October 2018**  
Organized and co-lead workshops and career shadowing event for undergraduate students at the Museum of Natural History.

**Broadening Participation in the Biodiversity Sciences, Los Angeles, CA** **April 2017**  
Organized and co-lead workshops and career shadowing event for undergraduate students at the Natural History Museum of Los Angeles.

**STEAM Night, Washington Magnet Academy, Pasadena, CA** **April 2015**  
Career night for elementary students.

**Science and Career Day, Pasadena Community College, Pasadena, CA** **April 2015**  
Led botany workshop and roundtable discussion for middle school girls.

## SERVICE

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**Member-at-Large** **2020–present**  
American Society of Plant Taxonomists

**Liaison for Society for the Preservation of Natural History Collections** **2020–present**  
American Society of Plant Taxonomists

**Systematic Collections Committee** **2020–present**  
American Society of Plant Taxonomists

**Admin Committee** **2019–present**  
Consortium of California

**Treasurer** **2016–2020**

Society of Herbarium Curators

**Board of Directors and Taxon Editor (Hydrophyllaceae, Lamiaceae)** 2015–present  
Flora of North America

**Georeferencing Working Group** 2014–2019  
iDigBio

**Data Management Interest Group** 2014–2019  
iDigBio

**Board of Directors** 2013–2017  
Southern California Botanists

## **MANUSCRIPT REVIEWS**

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Aliso, American Journal of Botany, Annales Botanici Fennici, Botanical Journal of the Linnean Society, Madroño

## **PROFESSIONAL AFFILIATIONS**

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American Society of Plant Taxonomists  
California Native Plant Society  
Society for the Preservation of Natural History Collections  
Society of Herbarium Curators  
Southern California Botanists