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**EDUCATION**

University of Wisconsin-Madison	August 2025
<b>Doctor of Philosophy in Botany</b> , Distributed Minor	
University of Wisconsin-Madison	December 2022
<b>Master of Science in Botany</b> , Distributed Minor	
The Ohio State University	June 2011
<b>Bachelor of Science in Evolution and Ecology</b> , Minor in Philosophy	With honors, cum laude

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**RELEVANT SKILLS**

Herbarium curation	Herbarium digitization	Herbarium loan & exchange	Botanical illustration
Plant identification	Dichotomous keying	Scientific plant collecting	Botanical field work
Basic wet-lab procedure	DNA extraction and PCR	DNA quantification	Gel electrophoresis
General bioinformatics	Phylogenetic inference	Phylogeography	Morphometrics
R and MySQL scripting	Condor cluster computing	Bash scripting	Computer troubleshooting
Science writing	Post-secondary teaching	Internet & library research	Research collaboration
Intermed. Spanish & French	Basic Italian & German	OpenOffice & MS Office	GIMP & Photoshop

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**EXPERIENCE**

<b>Iowa State University</b>	Ames, Iowa
<i>Curator III, Ada Hayden Herbarium</i>	May 2025-present
<ul style="list-style-type: none"> <li>Curated and managed the merged ISC, IA, and ISTC herbaria of over 700,000 combined specimens</li> <li>Hired, supervised, and trained student staff in specimen handling, mounting, digitization, and basic curation</li> <li>Digitized (imaged, databased, and georeferenced) specimens and quality-checked the database using Consortium of Great Plains Herbaria software</li> <li>Collaborated with botanists and researchers from universities, land-management agencies, etc.</li> <li>Designed, led, &amp; taught workshops and other outreach events for botanists, students, and the general public</li> <li>Carried out an integrative research project on the evolution of the <i>Potentilla breweri</i> complex</li> </ul>	
<b>University of Wisconsin-Madison</b>	Madison, Wisconsin
<i>NSF Graduate Research Fellow, Flora Aeterna Fellow, etc.</i>	August 2015-August 2025
<ul style="list-style-type: none"> <li>Designed and carried out an integrative research project on the evolution of the <i>Potentilla breweri</i> complex</li> </ul>	
<b>University of Wisconsin-Madison</b>	Madison, Wisconsin
<i>Graduate Teaching Assistant, BOT 400 (Plant Systematics)</i>	September-May 2016 & 2021-2024,
<i>and BOT 401 (Vascular Flora of Wisconsin)</i>	January-May 2022-2025
<ul style="list-style-type: none"> <li>Taught plant systematics &amp; identification to UW-Madison students of diverse ages and backgrounds, including teaching herbarium specimen collection, mounting, and handling</li> <li>Implemented hands-on instruction, set up instructional lab materials, and led short field trips</li> <li>Developed original instructional materials</li> <li>Evaluated &amp; graded student work</li> </ul>	
<b>University of Wisconsin-Madison</b>	Madison, Wisconsin
<i>Graduate Teaching Assistant, Beringian Botany</i>	September 2019-May 2020, January-August 2022
<ul style="list-style-type: none"> <li>Taught botanical, Quaternary geological, biogeographical, ecological, anthropological, and cultural perspectives on the Beringia region</li> <li>Helped bring the course quickly online in March 2020 and reschedule the field segment for summer 2022</li> <li>Planned and executed a three-week field course segment for ~20 students to collect floristic data in Alaska, including two weeks of field work on the Dalton Highway and the Seward Peninsula</li> </ul>	

**University of Wisconsin-Madison**

Madison, Wisconsin

*Graduate Teaching Assistant, ZOO 152 Lab*

January-May 2016, January-May 2017, January-June 2021

- Taught ecology, evolution, plant biology, science writing, and meta-analysis to UW-Madison students of diverse ages and backgrounds
- Worked in a large team to coordinate instruction for over 1500 students
- Used hands-on instruction and set up instructional lab materials
- Taught synchronous online lab classes
- Evaluated & graded student work

**The College of Idaho Herbarium / Boise State University Herbarium**

Boise, Idaho

*Botanical Database Supervisor*

September 2011-July 2015

- Managed the NSF-funded digitization of nine small university, BLM, and Forest Service herbaria
- Imaged and databased herbarium specimens using Consortium of Pacific Northwest Herbaria software
- Hired, supervised, and trained student staff in specimen digitization and basic herbarium curation
- Quality-checked and administered the MySQL-based herbarium databases for all nine herbaria
- Updated herbarium organization and nomenclature to reflect modern phylogeny and synonymy
- Collaborated with botanists from nearby land-management agencies to digitize their collections
- Developed comprehensive documentation for the digitization workflows and database software

**Ohio State University Herbarium**

Columbus, Ohio

*Student Staff*

January 2010-August 2011

- Imaged & databased herbarium specimens using BRAHMS software
- Trained other student staff in specimen digitization and use of BRAHMS
- Quality-checked the digitized specimen data

**Department of Evolution, Ecology, & Organismal Biology, Ohio State University**

Columbus, Ohio

*Teaching Assistant: EEOB 210, Local Flora*

July-August 2010

- Taught plant identification & ecology to college students through lectures and dissection
- Guided students on field trips across Ohio
- Collected live plant specimens for class presentation
- Graded student work

**Department of Botany, University of Otago**

Dunedin, Otago, New Zealand

*Student Researcher*

July-November 2009

- Surveyed epiphytic plant species of the Dunedin Botanic Garden
- Developed and illustrated a field guide to the Garden's epiphytes

**Wonders of Our World**

Columbus, Ohio

*Student Staff*

October 2008-July 2009

- Worked with children at local elementary schools, teaching science through short hands-on activities
- Organized OSU student volunteers in the classroom
- Designed new experiments/activities for elementary- & middle-school classroom use

**PUBLICATIONS**

- Ertter, B. & A.C. DiNicola (2025). *Potentilla bruceae* (Rosaceae): a case study in taxonomic species as repeatedly modified hypotheses, with an updated treatment for the current circumscription. *Phytoneuron* 2025-06: 1-13.
- DiNicola, A.C. & B. Ertter (2024). Something old is something new: resurrection of a subalpine *Potentilla* (Rosaceae) from the Trinity Alps of California. *Madroño* 70(4): 232-241. DOI: 10.3120/0024-9637-70.4.232
- Spalink, D., N. Karimi, J.H. Richards, E. Eifler, A. DiNicola, T. Thein, L. Schomaker, B.T. Drew, K. McCulloh, T.J. Givnish (2022). Short-distance gene flow and morphological divergence in *Eschscholzia parishii* (Papaveraceae): implications for speciation in desert winter annuals. *Botanical Journal of the Linnean Society* 200(2): 255-269. DOI: 10.1093/botlinnean/boac010
- Rose, J.P., R. Kriebel, L. Kahan, A. DiNicola, J.G. González-Gallegos, F. Celep, E.M. Lemmon, A.R. Lemmon, K.J. Sytsma, & B.T. Drew (2021). Sage insights into the phylogeny of *Salvia*: dealing with sources of discordance within and across genomes. *Frontiers in Plant Science* 12: 2606. DOI: 10.3389/fpls.2021.767478
- Ertter, B. & A. C. DiNicola (2017). Overview of *Potentilla versicolor* (Rosaceae) and a new variety in the "sky islands" of central and eastern Oregon. *Phytoneuron* 2017-65: 1-8.

DiNicola, A. C. (2015). Southwest Idaho's Flora Goes Global: The SWITCH Digitization Project. *Sage Notes: Newsletter of the Idaho Native Plant Society* 37(3): 1-4.

### Conference Presentations

DiNicola, A.C., K. Sytsma, & B. Ertter (2024, June 17). *Reading between, across, and under the lines: phylogenetic interpretation of a group that resists straightforward interpretation*. Lecture conducted at the annual meeting of the Botanical Society of America et al. (BOTANY 2024), Grand Rapids, Michigan.

DiNicola, A.C., K. Sytsma, & B. Ertter (2020, January 13). *Something old and something new in the Trinity Alps: an expedition, a resurrection, and Potentilla millefolia var. algida*. Lecture conducted at the Northern California Botanists' 2020 Symposium, Chico, CA.

DiNicola, A.C., B. Ertter, & K. Sytsma (2019, July 31). *Evolution of the Potentilla breweri complex: hybridization and radiation in the Great Basin sky islands*. Lecture conducted at the annual meeting of the Botanical Society of America et al. (BOTANY 2019), Tucson, AZ.

DiNicola, A. C., B. Ertter, & K. Sytsma (2018, July 25). *Hybrid surprises in the Potentilla breweri complex*. Lightning talk conducted at the annual meeting of the Botanical Society of America et al. (BOTANY 2018), Rochester, MN.

DiNicola, A. C., B. Ertter, & K. Sytsma (2018, February 2). *Evolution of the Potentilla breweri complex: adaptation, hybridization, and radiation in the Great Basin sky islands*. Lecture conducted at the Conservation Conference of the California Native Plant Society, Los Angeles, CA.

DiNicola, A. C., D. Mansfield, & J. F. Smith (2012, July). *SWITCH (SouthWest Idaho: The Comprehensive Herbarium)*. Poster presented at the annual meeting of the Botanical Society of America et al. (BOTANY 2012), Columbus, OH.

DiNicola, A. C., & C. Dassler (2011, May). *Leaf dimorphism and sporangium desiccation sensitivity in two dryopterid ferns*. Poster presented at the Denman Undergraduate Research Forum, The Ohio State University, Columbus, OH.

### Taxonomic Illustrations

DiNicola, A.C. *Potentilla norreilmukana*. [Illustration] In DiNicola, A.C. & B. Ertter (2024). Something old is something new: resurrection of a subalpine *Potentilla* (Rosaceae) from the Trinity Alps of California. *Madroño* 70(4) (in press).

DiNicola, A. C. *Potentilla hookeriana* var. *charletii*. [Illustration] In Ertter, B. (2018). Two new North American *Potentilla* sect. *Rubricaulis* (Rosaceae). *Phytoneuron* 2018-2: 1-14.

DiNicola, A. C. *Potentilla versicolor* var. *darrachii*. [Illustration] In Ertter, B. & A. C. DiNicola (2017). Overview of *Potentilla versicolor* (Rosaceae) and a new variety in the "sky islands" of central and eastern Oregon. *Phytoneuron* 2017-65: 1-8.

DiNicola, A. C. *Monardella angustifolia*. [Illustration] In Elvin, M. A., D. H. Mansfield, & B. Ertter (2014). A new species of *Monardella* (Lamiaceae) from southeastern Oregon and adjacent Idaho, U.S.A. *Novon: A Journal for Botanical Nomenclature* 23(3): 268-274.

DiNicola, A. C. *Christopheria xantha*. [Illustration] In Smith, J. F. & J. L. Clark (2013). Molecular phylogenetic analyses reveal undiscovered monospecific genera in the tribe Episcieae (Gesneriaceae). *Systematic Botany* 38(2): 5.

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### GRANTS & AWARDS

- National Science Foundation Graduate Research Fellow, 2016-2020
- Botanical Society of America Graduate Student Research Award, 2017
- American Society of Plant Taxonomists Graduate Research Award, 2017
- Northern California Botanists Research Scholarship, 2020
- University of Wisconsin-Madison Department of Botany:
  - Hugh H. Iltis Biodiversity Fund, 2016-2017
  - Davis Research Support, 2016-2018 & 2023
  - Judith Croxdale Support for Women in Science, 2016 & 2023
  - Flora Aeterna Award, 2018-19 & 2021-2023
  - Demeter Award, 2019 & 2021
- First place, UW-Madison Three-Minute Thesis competition, December 2016

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## PRIOR COURSEWORK

General Biology, Chemistry, and Physics series with labs	Symbolic Logic	Organic Chemistry series
Derivative and integral calculus	Statistics for Biosciences	Plant Systematics with lab & field work
Intro. Ecology with lab & field work	Mycology with lab	Local Flora (OH, WI, Otago) w/lab & field work
Plant Population Modeling with lab	Plant Ecology with lab	Research Mentor Training
Plant Pathology with lab	Phylogenetic Analysis	College Science Education
Plant Physiology	Landscape Genetics	Informal Science Education
Introductory French	Spanish Literature & Composition	Life Drawing with studio

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## ACTIVITIES

- Attended the Wisconsin Botanical Foray 2022
- Served on Botany Department External Relations Committee and Diversity, Equity, & Inclusion Committee, 2022-2023
- Served on Botany Department search committee for graduate program coordinator, January 2022
- Donated art services (for auction) to the American Society of Plant Taxonomists and to the Idaho Native Plant Society, July 2019
- Attended the Oak Spring eFLOWER Summer School phylogenetic methods workshop, September 2018
- Served on Botany Department search committee for financial specialist, December 2017
- Helped organize and run two consecutive Idaho Botanical Foray collecting/outreach trips, in 2013 and 2014, and attended the 2012-2015 and 2017 events
- Assisted with initial excavation & description of the Ponderosa fossil flora on Payette Lake, ID, 2013-2017
- Member, Botanical Society of America, American Society of Plant Taxonomists, and American Fern Society. Helped lead an AFS field trip at BOTANY 2014.
- Member, Botanical Club of Wisconsin, California Native Plant Society, and Idaho Native Plant Society
- Volunteered in exhibit design, grant writing, & collections management for the Madison Science Museum, Madison, WI, January-June 2016
- Created, documented, and maintained and administered the online discussion forums for the Rare Plant Working Groups of the Idaho Native Plant Society
- Designed, painted, and donated a masthead for the Idaho Native Plant Society's newsletter, *Sage Notes*, 2014; designed and donated a T-shirt design based on the masthead, April 2019
- Run a small business, 2013-present: create & sell botanical art and hand-carved art jewelry, online and at art fairs (<http://photosynthete.etsy.com>)
- Sang with the College of Idaho Chorale, 2012-2014, and the UW-Madison University Chorus, 2022-23
- 1<sup>st</sup> prize, Botanical Society of Otago Audrey Eagle Botanical Illustration Contest, 2010, and co-1<sup>st</sup> prize, 2012. Winning informational illustrations described the fern *Microsorium pustulatum* and the lichen *Cladia retipora* respectively.