

## CURRICULUM VITAE

NAOMI S. FRAGA

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### EDUCATION

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**In Progress** PhD Botany, Claremont Graduate University; Dissertation: Taxonomy, Reproductive Biology, and Conservation of the *Mimulus palmeri* clade (Phrymaceae). Advisor: Dr. Elizabeth Friar  
**May 2005** MS Botany, Claremont Graduate University; Thesis: A Vascular Flora of the Owens Peak Eastern Watershed, southern Sierra, Kern County, California. Advisor: Dr. J. Travis Columbus  
**June 2002** BS Botany, California State Polytechnic University, Pomona; Senior Thesis: A Short Flora of Short Canyon, Kern County, California. Advisor: Dr. Curtis Clark.  
**June 2002** BS Biology, California State Polytechnic University, Pomona

### RELEVANT TRAINING

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Certified in Wilderness First Aid. January 2009- January 2011.  
Agrostology. Rancho Santa Ana Botanic Garden. January-May 2006  
Building Geodatabases I. ESRI. Redlands, California. February 2005.  
Introduction of ArcGIS I. ESRI. Redlands, California. November 2004.

### PROFESSIONAL EXPERIENCE

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**2008-Present** Conservation Botanist, *Rancho Santa Ana Botanic Garden (RSABG)* - Serve as lead field botanist and provide programmatic leadership and management; responsible for preparation of contract and grant proposals, planning and conduction of fieldwork, report preparation, budget management, training and supervision of subordinate staff, dissemination of research through publishing of scientific papers and presentations at professional meetings, coordination and collaboration with complementary activities of other RSABG programs.  
**2003-2008** Botanical Field Studies Coordinator, *RSABG* – Title changed to Conservation Botanist in 2008.  
**2000-Present** Freelance Web Designer- Web design, development and maintenance of several small web sites. (e.g. Personal website <http://anabaena.net>, Southern California Botanists, <http://socalbot.org>)  
**2000-2003** Herbarium Curatorial Assistant, *RSABG* - Data entry, maintenance, and development of the RSA-POM specimen database, as well as day-to-day operations of the RSA-POM Herbarium.

### TEACHING EXPERIENCE

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*UCLA Extension*– Lecturer for the Certificate in Gardening and Horticulture Program  
General Botany for Gardeners (Fall 2005, 2006)  
Introduction to Plant Identification and Taxonomy (Spring 2006)  
*Huntington Botanic Garden*– Lecturer for the Naturalist Series  
Collecting Ethics and Protocols (June 2007)  
*Rancho Santa Ana Botanic Garden*– Instructor for Community Education Course  
Introduction to Mojave Desert Wildflowers (March 2008)

### AWARDS AND GRANTS RECEIVED

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California Desert Research Fund, The Community Foundation (2009) \$2,240  
Torrey Botanical Society Student Fellowship Award (2008) \$2,500  
California Native Plant Society (CNPS) Education Grant (2007) \$700  
CNPS Bristlecone Chapter, Mary DeDecker Botanical Grant Program (2003, 2008) \$500  
Native Plant Conservation Initiative, National Fish and Wildlife Foundation (2006) \$17,000  
CNPS Helen Sharsmith Grant (2004) \$1,000  
Southern California Botanists Graduate Student Award (2002, 2003) \$500  
J. Paul Getty Multicultural Undergraduate Internship (2001) \$3,000

## SELECTED CONSERVATION PROGRAM CONTRACTS AND GRANTS

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### *Angeles National Forest*

Species Management Guides for *Astragalus lentiginosus* var. *antonius* (Fabaceae) and *Linanthus concinnus* (Polemoniaceae) (2004-2006)

Surveys of Historic Occurrences of *Oreonana vestita* (Apiaceae) (2008)

Botanical Surveys of National Forest Maintained Roads (2004-2007)

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### *Bureau of Land Management*

Seeds of Success (Native Plant Material Program) (2009-2013)

*Ex Situ* Conservation of Threatened and Endangered Species in the California Desert District (2010)

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### *Center for Plant Conservation*

Online Plant Profiles for Federally Listed Species on Forest Service Lands (2008)

Seed Collection of Threatened and Endangered species on National Park Lands (2005-2009)

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### *Cleveland National Forest*

Surveys of Historic Occurrences of *Eriogonum evanidum* (Polygonaceae) (2008)

Surveys for Rare and Sensitive Species on the Trabuco District (2009-2010)

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### *San Bernardino National Forest*

North Sugarloaf Mountain Floristic Surveys (2010)

Santa Ana River Watershed Floristic Surveys (2008-2010)

Baldwin Basin Floristic Surveys (2008)

Fen Conservation (2007-2008)

Conservation of Vernal Wetland Species (2007-2008)

Surveys of historic occurrences of *Galium californicum* subsp. *primum* (Rubiaceae) (2004)

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### *U.S. Fish and Wildlife Service*

Conservation and Seed Banking for *Trichostema austromontana* subsp. *compactum* (Hidden Lake bluecurls; Lamiaceae) (2006-2010)

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## PUBLICATIONS

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Fraga N.S. 2008. Conservation Status of *Mimulus shevockii* Heckard & Bacig. (Phrymaceae). *Crossosoma* 34: 50–56.

Fraga N.S. 2008. The Vascular Flora of the Owens Peak Eastern Watershed, southern Sierra Nevada, California. *Aliso*. 25: 1-26.

Fraga, N.S. 2007. A Conservation Plan for *Mimulus shevockii* Heckard & Bacig. (Phrymaceae). Rancho Santa Ana Occasional Publications #7. 22 p.

Fraga N.S. 2006. A short flora of Short Canyon. *Crossosoma* 32: 1–30.

Porter J.M. and Fraga N.S. 2005. A Quantitative analysis of pollen variation in two southern California perennial *Helianthus* (Heliantheae: Asteraceae). *Crossosoma* 31: 1–12.

Fraga N.S., and Porter J.M. 2004. Noteworthy collection of *Saltugilia latimeri* T.L. Weese & L.A. Johnson (Polemoniaceae). *Madroño* 51: 313.

Fraga N.S. 2004. The Vascular Flora of the Owens Peak Eastern Watershed: A Review of Progress. *Crossosoma* 29:41–43.

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## MANUSCRIPTS IN PREPARATION

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Fraga N.S. A revision of the *Mimulus montioides* (Phrymaceae) species complex with descriptions of two new species from California and Nevada. *Systematic Botany*.

Nesom, G.L., Fraga, N.S. *Mimulus* In: Flora of North America, North of Mexico. Vol. 17. Oxford Univ. Press, New York, Oxford.

Fraga N.S. The monkeyflowers (Phrymaceae) of the San Bernardino Mountains, California. *Fremontia*.

Fraga N.S., Gross, L.J., Kempton E.A., and Bell D.S. Reappearance of the vanishing buckwheat; *Eriogonum evanidum* (Polygonaceae). *Madroño*.

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## **SELECTED TECHNICAL REPORTS/PUBLICATIONS**

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- Fraga, N.S. and Kietzer, K. 2009. A conservation strategy for *Trichostema austromontanum* subsp. *compactum* (Hidden Lake blue curls; Lamiaceae), submitted to USFWS. 38 p.
- Fraga, N.S. and Nickerman J. 2009. Species management guide for *Astragalus lentiginosus* var. *antonius* (Fabaceae), San Antonio milkvetch, Angeles National Forest. 39 p.
- Fraga, N.S. 2008. Conservation assessment of vernal wetland species on the Mountain Top District of the San Bernardino National Forest. Prepared for Scott Eliason, San Bernardino National Forest, USDA Forest Service, Fawnskin, California
- Fraga, N.S. 2005. Surveys of historical occurrences of federally listed species on Joshua Tree National Park. Prepared for Tasha LaDoux, Joshua Tree National Park, National Park Service, Twentynine Palms, California.

## **PRESENTATIONS**

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### *Oral Presentations*

- Fraga N.S. 2010. Untangling the taxonomic mess of California's miniature monkeyflowers (Phrymaceae). CNPS San Gabriel Mountain Chapter. Pasadena, California.
- Fraga N.S. 2009. California's miniature monkeyflowers: an example of cryptic species diversity. University club of Claremont. Claremont, California.
- Fraga N.S. 2009. Unraveling the *Mimulus montioides* species complex (Phrymaceae). Botany 2009; Snowbird, Utah.
- Fraga N.S. 2009. *Mimulus shevockii* (Phrymaceae): A conservation plan in action. CNPS Conference, Sacramento, California
- Fraga N.S. 2009. A conservation strategy for *Trichostema austromontanum* subsp. *compactum* (Lamiaceae). CNPS Conference, Sacramento, California
- Fraga N.S. 2009. The trials and tribulations of studying minute monkeyflowers. Volunteer Enrichment, Rancho Santa Ana Botanic Garden, Claremont, California.
- Fraga N.S. 2007. Studies in *Mimulus*: an overview of the *Mimulus palmeri* clade (Phrymaceae). CNPS Bristlecone Chapter, Bishop, California
- Fraga N.S. 2007. Conservation of the Kelso Creek monkeyflower (Phrymaceae). Maturango Museum, Ridgecrest, California
- Fraga N.S. 2006. The Flora of the Owens Peak Eastern Watershed. Maturango Museum, Ridgecrest, California
- Fraga N.S. 2005. A conservation plan for *Mimulus shevockii* (Phrymaceae). California Botanical Society Graduate Student Meeting, Tiburon, California
- Fraga N.S. 2004-05. The Flora of the Owens Peak Eastern Watershed. CNPS, San Gabriel Mountains Chapter. Pasadena, CA San Bernardino/Mojave Chapter, Joshua Tree, CA & Botany 2004; Snowbird, Utah.

### *Posters*

- Fraga, N.S. 2009. Exploring species boundaries in the *Mimulus palmeri* clade (Phrymaceae). CNPS 2009 Conservation Conference: Strategies and Solutions. Sacramento, California. ([pdf](#))
- Soza, V.L., L. Gross, S. Boyd, N.S. Fraga. 2006. The Vascular Flora of the Verdugo Mountains and San Rafael Hills, Los Angeles County, California. Botany 2006 Meeting; Chico, California.
- Fraga N.S. 2005. A Species Management Guide for *Astragalus lentiginosus* var. *antonius* and *Linanthus concinnus*. Botany 2005 Meeting; Austin, Texas.
- Vanderplank S., S. Boyd, N.S. Fraga, B. Tutt. 2005. Rancho Santa Ana Botanic Garden Herbarium (RSA-POM) Specimen Database; a critical resource for the conservation of California. Botany 2005 Meeting; Austin, Texas
- Fraga, N.S. 2003. The Vascular Flora of The Owens Peak Eastern Watershed. Botany 2003 Meeting; Mobile, Alabama.

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**FIELD EXPERIENCE**

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Mexico: Baja California. United States: California (Especially in these physiographic regions: Great Basin Desert, Mojave Desert, Peninsular Ranges, Sonoran Desert, southern and central Sierra Nevada, Transverse Ranges), Nevada, Hawaiian Islands (Hawaii, Maui, Molokai)

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**INVITED SPEAKER**

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University Club, Claremont, CA 2009  
CNPS Bristlecone Chapter, Bishop, CA, 2008  
Maturago Museum, Ridgecrest, CA, 2006, 2007  
CNPS Riverside/San Bernardino/Mojave Chapter, Joshua Tree National Park, CA 2006  
CNPS San Gabriel Mountains Chapter, Pasadena, CA, 2004, 2010

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**PROFESSIONAL SERVICE**

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CNPS Southwest Region Reviewer (2004-Present)  
Center for Plant Conservation, Conservation Officer; RSABG. (2006-Present).  
Southern California Botanists; Board Member (2002-Present), Webmaster (2001-present), Vice President (2004, 2007, 2008, 2009), President (2006).

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**INTRAMURAL SERVICE**

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*Rancho Santa Ana Botanic Garden*–Website Committee Chair 2007, Website Committee 2006-Present  
Research Webmaster 2007-2009, Field Vehicle Committee (2006 –Present),  
Graduate Student Chair (2009-2010)  
*Claremont Graduate University*–Graduate Student Council Botany Representative (2008-2009).

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**PROFESSIONAL ASSOCIATIONS**

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American Society of Plant Taxonomists  
Botanical Society of America  
California Botanical Society  
California Native Plant Society  
Nevada Native Plant Society  
Southern California Botanists  
Torrey Botanical Society