

CHRISTINA M. ANDRUK

University of Texas at Austin
Section of Integrative Biology
1 University Station Mail Code A6700
Austin, TX 78712

candruk@utexas.edu
phone: 512-471-4546

EDUCATION

2007-present PhD, Ecology Evolution and Behavior, University of Texas, Austin, TX
Supervising professor: Dr. Norma Fowler.

2006 BS, *magna cum laude*, Ecology and Evolutionary Biology, University of Connecticut, Storrs, CT

HONORS AND AWARDS

2008 EEB Departmental Fellowship, University of Texas, Austin, TX. \$1230.00

GRANT SUPPORT

2012-2010. United States Fish and Wildlife Service. The effects of deer, fire, and *Juniperus ashei* removal on vegetation in central Texas woodlands. \$24,492. (PI: NF, CA participated in all stages of grant-writing and project work, for CA dissertation)

2010-2009. United States Fish and Wildlife Service. Vegetation survey of Balcones Canyonlands National Wildlife Refuge: the effects of fire. \$23,863. (PI: NF, CA participated in all stages of grant-writing and project work, for CA dissertation)

2009. United States Fish and Wildlife Service. A 'window of opportunity', can prescribed fires and reseeding of native herbaceous species control *Bothriochloa ischaemum*? \$2009.16 (support for seed purchases, paid directly to CA)

PUBLICATIONS

Andruk, C.A., and N. L. Fowler. Is fire enough? The joint effects of fire and deer herbivory on hardwood regeneration in central Texas woodlands. *In review*

Andruk, C. A., and N. L. Fowler. Preventing re-invasion following restoration: the effects of prescribed fire and species choice on native and invaded savannas. *In prep*

INVITED TALKS

Andruk, C.M. and N.L. Fowler. **2013**. Is fire enough? The joint effects of fire and deer herbivory on hardwood regeneration and species composition in central Texas woodlands. Published abstract and oral presentation, Society of Rangeland Management, Oklahoma City, OK.

OTHER PRESENTATIONS

Andruk, C.M. and N.L. Fowler. **2013**. Dispersal, legacy effects, and deer directly and indirectly affect restoration outcomes after clearing and burning. Published abstract and oral presentation, Society for Restoration Ecology, Madison, WI.

Andruk, C.M. and N.L. Fowler. **2013**. Dispersal, legacy effects, and deer directly and indirectly affect community trajectories after clearing and burning. Published abstract and oral presentation, Ecological Society of America, Minneapolis, MN.

Andruk, C.M. and N.L. Fowler. **2012**. Is fire enough? The joint effects of fire and deer herbivory on hardwood regeneration and species composition in central Texas woodlands. Published abstract and oral presentation, Ecological Society of America, Portland, OR.

Andruk, C.M. and N.L. Fowler. **2011**. The effects of initial vegetation composition, seed availability, fire and competition on herbaceous species recruitment and an invasive grass. Published abstract and oral presentation, Texas Invasive Plant and Pest Conference, Austin, TX.

Andruk, C.M. and N.L. Fowler. **2011**. The effects of initial vegetation composition, seed availability, fire and competition on herbaceous species recruitment and an invasive grass. Published abstract and poster, Ecological Society of America, Austin, TX.

Andruk, C.M., and C. Schwope. **2010**. The joint effects of fire and deer herbivory on hardwood regeneration in central TX woodlands. Oral presentation, USFWS Fire Management Conference, South Padre Island, TX.

Andruk, C.M. and N.L. Fowler. **2010**. Fire and hardwood regeneration in central Texas. Published abstract and poster, Ecological Society of America, Pittsburgh, PA.

Andruk, C.M. and N.L. Fowler. **2009**. Effectiveness of prescribed fires in maintaining and promoting native herbaceous plant species diversity in central Texas. Published abstract and poster, Ecological Society of America, Albuquerque, NM.

Andruk, C.M. and N.L. Fowler. **2008**. Examining management techniques and restoration following woody plant encroachment. Oral presentation, Balcones Canyonlands NWR research symposium, Austin, TX.

DEPARTMENTAL TALKS

Andruk, C.M. **2013**. Is fire enough? The joint effects of fire and deer herbivory on hardwood regeneration and species composition in central Texas woodlands. Oral presentation, Plant Biology Seminar, Austin, TX.

Andruk, C.M. **2012**. Is fire enough? The joint effects of fire and deer herbivory on hardwood regeneration and species composition in central Texas woodlands. Oral presentation, Ecolunch, Austin, TX.

TEACHING ASSISTANTSHIPS (all at University of Texas at Austin)

Field Biology. Writing intensive course for lower-division biology majors that design independent research projects. Fall 2013, Spring 2013, Fall 2012, Spring 2012.

Texas Flora and Systematics. For upper-division biology majors and MA landscape architecture students. Fall 2009, Fall 2008.

Biostatistics. Statistics course for upper-division biology majors. Spring 2011.

Native Plants. Plant identification course for biology non-majors. Spring 2009, Summer 2009.

Introductory Biology II. First year biology course for majors, covers genetics through ecology. Summer 2013, Fall 2011, Fall 2010.

Evolution. Upper-division course for biology majors. Fall 2007.

Survey of the plant kingdom. Plant taxonomy and anatomy, algae to angiosperms. Spring 2008.

RESEARCH ASSISTANTSHIPS AND INTERNSHIPS

May-Aug. 2012. Graduate research assistantship. The effects of fire and herbivory on hardwood regeneration in central Texas woodlands. University of TX, Austin TX.

May-Aug. 2011. Graduate research assistantship. The effects of fire and herbivory on hardwood regeneration in central Texas woodlands. University of TX, Austin TX.

May-Aug. 2010. Graduate research assistantship. The effects of fire and herbivory on hardwood regeneration in central Texas woodlands. University of TX, Austin TX.

May-Aug. 2009. Graduate research assistantship. The effects of fire and herbivory on hardwood regeneration in central Texas woodlands. University of TX, Austin TX.

Dec. 2010-July 2007. Student Conservation Association internship. The effects of cattle grazing and fire history on vegetation of Saguaro National Park. Tucson, AZ.

June-Aug. 2006. Research Experience for Undergraduates. Differences in germination and selfing rates between natural and horticultural populations of *Echinacea* with implications for conservation. Chicago Botanic Garden, Cook, IL.

SUPERVISORY EXPERIENCE

May-Aug. 2012. Supervised a Research Experience for Undergraduate Intern. Skills taught: independent project design, field work, data organization and analysis, image processing, how to make a poster.

May-Aug. 2012. Supervised an undergraduate research assistant. Skills taught: field work, data collection, data entry and organization, basic analysis

May-Aug. 2011. Supervised a Research Experience for Undergraduate Intern. Skills taught: independent project design, field work, data organization and analysis, image processing, how to make a poster.

May-Aug. 2011. Supervised an undergraduate research assistant. Skills taught: field work, data collection, data entry and organization, basic analysis

May-Aug. 2010. Supervised a Research Experience for Undergraduate Intern. Skills taught: independent project design, field work, data organization and analysis, image processing, how to make a poster.

May-Aug. 2010. Supervised an undergraduate research assistant. Skills taught: field work, data collection, data entry and organization, basic analysis

May-Aug. 2009. Supervised a Research Experience for Undergraduate Intern. Skills taught: independent project design, field work, data organization and analysis, image processing, how to make a poster.

May-Aug. 2009. Supervised two undergraduate research assistants. Skills taught: field work, data collection, data entry and organization, basic analysis

UNIVERSITY SERVICE & OUTREACH

2013. Public outreach lecture for Science Under the Stars. *Plants on fire!*

2012-present. Co-founder of the Central Texas Student Association for Fire Ecology (SAFE). *Organizes field trips, journal article discussions, public outreach events*

2010-present Co-organizer of Science Under the Stars. *Organizes outreach lecture series that give graduate students an opportunity to present their research to a public audience*

PROFESSIONAL SKILLS

Wildland fire skills and certification

- have a red card (completed S-130 & S-190).
- experience setting prescribed fires at Balcones Canyonlands NWR

Field skills:

- plant identification and collection
- collecting plant abundance and size data
- fuel load characterization, soil and litter composition
- locating random sites and plants (GPS)

Technology skills:

- SAS STAT, detailed knowledge, some experience with SAS IML (programming language)
- ArcGIS, image processing, database management, map production and analysis
- Python, currently learning
- SigmaPlot, production of graphs and figures

- R, experience with statistical analyses
- other programs, including Gap Light Analyzer, Excel, Word

PROFESSIONAL SOCIETIES

Ecological Society of America, Society of Rangeland Management, Society Ecological Restoration, Central Texas Student Association for Fire Ecology