

Alyssa House Rosemartin

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EXPERIENCE

Partner & Application Specialist	2015-present
<p><i>USA National Phenology Network, University of Arizona, Tucson, AZ</i></p> <ul style="list-style-type: none"> Supported development of data products, including synthesis and developing quality control measures. Supported several major partnerships, with federal land management agencies and cooperative extension programs. Led and contributed to grant proposals, peer-reviewed reports, publications and information sheets. Gave professional presentations, workshops and posters. 	
Assistant Director	2010-2015
<p><i>USA National Phenology Network, University of Arizona, Tucson, AZ</i></p> <ul style="list-style-type: none"> Led University side of USA-NPN partnership, developed a National Coordinating Office staff of 12, conducted effective strategic and action planning and managed an annual budget of \$750,000 (oversaw increase from \$250,000 annually). Supported several major partnerships, with federal land management agencies and cooperative extension programs. Led and contributed to grant proposals, peer-reviewed reports, publications and information sheets. Gave professional presentations, workshops and posters. Participated in immersive, one-year leadership training program through Conservation Impact. Participated in "Climate Science Day on Capitol Hill, 2013," to improve communication between scientists and policy-makers. 	
Web Developer/IT Coordinator	2009-2015
<p><i>USA National Phenology Network, University of Arizona, Tucson, AZ</i></p> <ul style="list-style-type: none"> Developed tools and information architecture to support national-scale plant and animal monitoring program involving professional and citizen scientists. Supervised one programmer and several IT contractors. 	
Research Associate and Field Intern	2005-2008
<p><i>CEDO Intercultural, Puerto Peñasco, Mexico and Tucson, AZ</i></p> <ul style="list-style-type: none"> Contributed to research, community conservation and education efforts in Northern Mexico, resulting in the emergence of several ecotourism businesses and conservation designations. 	
Assistant Coordinator	2004-2005
<p><i>Brooklyn Center for the Urban Environment</i></p> <ul style="list-style-type: none"> Developed and evaluated a bilingual, science-based, family literacy after-school program. 	
Environment Promoter	2000-2002
<p><i>Peace Corps, Nicaragua</i></p> <ul style="list-style-type: none"> Developed and implemented environmental education programs, including reforestation and garden projects, in four rural primary schools. Facilitated grant-writing and project management for the creation of a public library. 	

EDUCATION		
	University of Arizona	2006-2008
	<ul style="list-style-type: none"> • MS in Wildlife Conservation and Management from the School of Natural Resources and the Environment • Peace Corps Fellow and Research Assistant 	
	Smith College	1996-2000
	<ul style="list-style-type: none"> • BA in Latin American Literature • Minor in Environmental Science • One semester Costa Rica (Duke/Organization for Tropical Studies) • One semester Buenos Aires, Argentina (University of Illinois) 	

PUBLICATIONS, GRANTS & PRESENTATIONS

Peer-reviewed Publications

Medhipoor, H., Zurita-Milla, R., **Rosemartin**, A., Gerst, K. and Weltzin, J. (In Review) Developing a Workflow to Identify Inconsistencies in Volunteered Geographic Information: A Phenological Case Study. PLOS One Geoinformatics.

Rosemartin, A., Denny, E.G., Weltzin, J.F., Wilson, B., Mehdipoor, H., Zurita-Milla, R., and Schwartz, M.D. (2015) A Phenological Legacy: Leafing and flowering data for lilacs and honeysuckles 1956-2014. Nature Scientific Data.

Morzaria-Luna, H. N., Turk-Boyer, P., **Rosemartin**, A., & Camacho-Ibar, V. F. (2014). *Vulnerability to climate change of hypersaline salt marshes in the Northern Gulf of California*. Ocean & Coastal Management, 93, 37-50.

Crimmins, T.M., Weltzin, J.F., **Rosemartin**, A.H., Surina, E.M., Marsh, L., & Denny, E. (2014). *Targeted campaign increases activity among participants in Nature's Notebook, a citizen science project*. Natural Sciences Education, 43(1), 64-72.

Rosemartin, A.H., Crimmins, T.M., Enquist, C.A., Gerst, K.L., Kellermann, J.L., Posthumus, E.E., Denny, E., Guertin, P., Marsh, L., & Weltzin, J.F. (2014). *Organizing phenological data resources to inform natural resource conservation*. Biological Conservation, 173: 90-97. <http://dx.doi.org/10.1016/j.biocon.2013.07.003>

Denny, E., Gerst, K.L., Miller-Rushing, A.J., Tierney, G.L., Crimmins, T.M., Enquist, C.A., Guertin, P., **Rosemartin**, A.H., Schwartz, M.D., Thomas, K.A., & Weltzin, J.F.(2013). *Standardized phenology monitoring methods to track plant and animal activity for science and resource management applications*. International Journal of Biometeorology, 1-11.

Rosemartin, A., & Van Riper III, C. (2012). Breeding Colonies of Least Terns (*Sternula antillarum*) in Northern Sonora, Mexico, 2006-2008. The Southwestern Naturalist, 57(3), 342-345.

Enquist, C. A., **Rosemartin**, A., & Schwartz, M. D. (2012). *Identifying and prioritizing phenological data products and tools*. Eos, Transactions American Geophysical Union, 93(37), 356-356.

Grants Awarded

Rosemartin, Alyssa (CoInvestigator), Marsh, Stuart (PI) Establishment of the USA National Phenology Network, dated 09/02/2014, United States Geological Survey (November 1, 2014 – September 31, 2018) Awarded: \$2,999,689.

Rosemartin, Alyssa (PI) Phenology Citizen Science on the Appalachian Trail: Technical Assistance, National Park Service (July 17, 2013 - September 30, 2015) Awarded: \$16,215.

Rosemartin, Alyssa (PI) Audubon Arizona's Project Pollinator with the USA National Phenology Network, Audubon Arizona (November 18, 2011 - November 18, 2012) Awarded: \$7,360.

Rosemartin, Alyssa (CoInvestigator) California Phenology Project- Technical Assistance (UAZDS-364), National Park Service (June 15, 2011 - September 30, 2014) Awarded: \$103,923.

Rosemartin, Alyssa (CoInvestigator), Marsh, Stuart (PI) Establishment of the USA National Phenology Network, dated 09/10/2010, United States Geological Survey (July 27, 2009 - July 26, 2014) Awarded: \$2,977,612.

Reports

- Rosemartin, A.**, & Crimmins, T. (2012). An Evaluation of Observer Engagement Strategies for *Nature's Notebook*. Kellermann, J.L., Crimmins, T.M., Denny, E., Enquist, C.A., **Rosemartin, A.H.**, Gerst, K.L., & Weltzin, J.F.(2013). *Nature's Notebook: 2012 State of the Data*. USA National Phenology Network Technical Series (2013-001)
- Kellermann, J., Crimmins, T. , Denny, E. , Enquist, C. , Marsh, R. , **Rosemartin, A.**, & Weltzin, J.(2012). USA National Phenology Network 2011 Data & Participant Summary. USA NPN Technical Series 2012 001.
- Crimmins, T., **Rosemartin, A.** , Marsh, R. L., Denny, E., Enquist, C. , & Weltzin, J.(2010). USA National Phenology Network 2010 Data & Participant Summary. USA NPN Technical Series 2011-001.
- Crimmins, T.M., A.H. **Rosemartin**, K.A. Thomas, R.L. Marsh, E.G. Denny, J.F. Weltzin. 2010. USA National Phenology Network 2009 Data Summary. USA-NPN Technical Series 2010-002. www.usanpn.org.
- Rosemartin A.H.** and van Riper, C. (2010). Biological Dimensions of Tern Management. USGS Open File Report.
- Crimmins, T.M., A. **Rosemartin**, A. Lincicome, J.F. Weltzin (2010). USA National Phenology Network 2009 Observer Survey Report. USA-NPN Technical Series 2010-003. www.usanpn.org.

Oral Presentations

- Rosemartin, A.** (2014) Partner showcase: Learn how other groups are using Nature's Notebook. USA-NPN Webinar Series.
- Rosemartin, A.** (2014) What came first, the flower or the bee? Learn to explore patterns in space and time with our Visualization Tool. USA-NPN Webinar Series.
- Rosemartin, A.** (2014) Tracking Seasonal Patterns in the Sonoran Desert. Tucson Audubon Society's *Living with Nature* lecture series, Tucson, AZ.
- Rosemartin, A.** (2014) *Nature's Notebook* at the New York Botanical Garden: The power of citizen science in local and national discoveries. Webinar for New York Botanical Garden Staff and Docents.
- Rosemartin, A.** & Marsh, L. (2013). Visualizing Phenology and Climate Data at the National Scale. American Geophysical Union Fall Meeting, San Francisco, CA.
- Rosemartin, A.**, & Marsh, L. (2013). Taking phenology mobile: lessons learned from native app development. Mobile Science Webinar, Invited.
- Rosemartin, A.** (2013) Phenology as an integrator across scales, audiences and approaches to science. Organization of Biological Field Stations Annual Meeting, Portal, AZ, Invited.
- Rosemartin, A.** (2013) Phenology as an integrator across scales, audiences and approaches to science. Research Insights in Semi-Arid Ecosystems Symposium, Tucson, AZ, Invited.
- Rosemartin, A.** (2013) Observing life cycles and change: Making meaning out of our natural world by taking a closer look. Rising Voices of Indigenous People in Weather and Climate Science, Boulder, CO, Invited.
- Rosemartin, A.**, Dresner, M. and Fucillo, K. (2012). Workshop: Citizen Science Showcase in Forest Park. Ecological Society of America Annual Meeting, Portland, OR.
- Rosemartin, A.**, & Crimmins, T. (2012). Recruitment, Training and Retention of Observers in Nature's Notebook, a program of the USA National Phenology Network. Phenology 2012, Milwaukee, WI.
- Rosemartin, A.** (2011). The USA National Phenology Network: A Practical Tool for Conservation and Education in the Face of Climate Change. Arizona-Sonora Desert Museum, docent workshop.
- Rosemartin, A.** (2010). Integrating phenology data: Using citizens, satellites, and weather stations to understand plant and animal responses to climate change. Ecological Society of America Annual Meeting, Pittsburgh, PA. Invited.
- Posthumus, E., Weltzin, J. and **Rosemartin, A.H.** (2010). Workshop: The USA National Phenology Network: A Practical Tool for Research, Management and Education in the Face of Climate Change. Ecological Society of America, Annual Meeting, Pittsburgh, PA.
- Weltzin, J.F. and **Rosemartin, A.H.** (2010). Workshop: The USA National Phenology Network: A Practical Tool for Conservation and Education in the Face of Climate Change. The Wildlife Society Annual Meeting, Snowbird, UT.
- Rosemartin, A.** (2010). Phenology Monitoring Across Taxa to Track Response to Climate Change: An Emerging Effort at the USA National Phenology Network. American Ornithological Union/Cooper Ornithological Society/Society of Canadian Ornithologists Joint Meeting. San Diego, CA.
- Rosemartin, A.** (2007). Bird Diversity and Abundance in Estero Morúa, Sonora. Partners in Flight, McAllen, TX.

Rosemartin, A. (2007). Distribución y Manejo del Charran Mínimo (*Sternula antillarum*) en el Golfo Norte de California. Asociación de Investigadores del Mar de Cortés. Hermosillo, Sonora, Mexico.

Guest Lectures

- University of Arizona's [Scholarships for Education and Economic Development](#) program (2013 and 2014)
- [Rocky Mountain Science and Sustainability Network's](#) Summer Academy (2011 and 2012)

Major Contributions to Programmatic Reports & Information Sheets

- USA-NPN National Coordinating Office. 2014. [USA National Phenology Network Five-Year Strategic Plan](#) (F14-FY18). USA-NPN Programmatic Series 2014-001. Available online at www.usanpn.org. 26 pp.
- Five USA-NPN [Annual Reports](#) (2009-2013)
- USA-NPN National Coordinating Office. 2011. [Review of the USA-NPN's Information Management System](#). USA-NPN Programmatic Series 2011-004. www.usanpn.org.
- USA-NPN National Coordinating Office. 2011. [USA National Phenology Network Agency Information and Listening Session Report](#). USA-NPN Programmatic Series 2011-002. www.usanpn.org.
- USANPN National Coordinating Office. 2011. [USA National Phenology Network Stakeholders Workshop Report](#). USA-NPN Programmatic Series 2011-001. www.usanpn.org.
- The USA National Phenology Network - [Taking the Pulse of Our Planet](#) (2011). USGS Fact Sheet.
- [Data Quality Assurance and Quality Control for Nature's Notebook](#) (2010). Technical Information Sheet. USA-NPN.
- [Supplementary Organismal and Site-specific Information Collected via Nature's Notebook](#) (2012). Technical Information Sheet. USA-NPN.
- [Stakeholder Perspectives](#) (2010). Information Sheet. USA-NPN.
- [Track Plant and Animal Phenology with Nature's Notebook](#) (2010). Information Sheet. USA-NPN

Poster Presentations

Katherine D. Jones, Jesslyn Brown, Sarah C. Elmendorf, Carolyn A. Enquist, Alyssa **Rosemartin**, Andrea Thorpe, Brian Wee, Jake F. Weltzin (2014) Using Essential Biodiversity Variables (EBVs) as a framework for coordination between research and monitoring networks: A case study with phenology, American Geophysical Union Annual Meeting, San Francisco, CA.

Katharine L. Gerst, Carolyn A. Enquist, Alyssa **Rosemartin**, Ellen Denny, Lee Marsh, David Moore, Jake F. Weltzin (2014) Phenology Data Products to Support Assessment and Forecasting of Phenology on Multiple Spatiotemporal Scales, American Geophysical Union Annual Meeting, San Francisco, CA.

Katherine D. Jones, Jesslyn Brown, Sarah C. Elmendorf Carolyn A. Enquist, Lindsay Powers, Alyssa **Rosemartin**, Andrea Thorpe, Brian Wee, Jake F. Weltzin (2014) Using Essential Biodiversity Variables (EBVs) as a framework for coordination between research and monitoring networks: A case study with phenology, Ecological Society of America Annual meeting, Sacramento, CA.

Crimmins, T.M., & **Rosemartin**, A.H. (2013). How do modes of public engagement impact the development of robust data sets for climate change research? American Geophysical Union Fall Meeting, San Francisco, CA .

Rosemartin, A., Crimmins, T.M., Enquist, C.A., Denny, E.G., Kellermann, J. and Weltzin, J.F. (2012) Answer Questions at Multiple Scales with Data Provided by the USA National Phenology Network. Ecological Society of America Annual Meeting, Portland, OR.

Crimmins, T., & **Rosemartin**, A. (2012). Evaluating Engagement Models for a Citizen Science Project: Lessons Learned From Four Years of *Nature's Notebook*. American Geophysical Union Fall Meeting, San Francisco, CA.

Crimmins, T. , Enquist, C., **Rosemartin**, A., Denny, E. , & Weltzin, J.(2011). The USA National Phenology Network s National Phenology Database Is a Resource Ripe for Picking. American Geophysical Union, San Francisco, CA.

Rosemartin, A., Marsh, L., Denny, E., & Wilson, B . (2011). The USA National Phenology Network's model for managing diverse data through space and time to inform phenology research and applications. Ecological

Society of America Annual Meeting, Austin, TX.

Crimmins, T. , Crimmins, M. , Denny, E. , Enquist, C ., **Rosemartin**, A ., & Weltzin, J .(2011). Citizen and Professional Scientists as Partners in the Scientific Endeavor. American Geophysical Union Annual Meeting, San Francisco, CA.

Rosemartin, A., Lincicome, A., Denny, E., Marsh, L., Wilson, B. (2010). The USA National Phenology Network's Model for Collaborative Data Generation and Dissemination. American Geophysical Union Fall Meeting, San Francisco, CA.

Rosemartin, A., Vasquez, R., Marsh, L., Denny, E., & Wilson, B . (2010). The USA-NPN Information Management System: Managing diverse data to inform phenology research and applications. Ecological Society of America Annual Meeting, Pittsburgh, PA.

Rosemartin, A. (2010). Taking the Pulse of Our Planet: The USA National Phenology Network. North American Wildlife and Natural Resources Conference. Milwaukee, WI.