

## V. THOMAS PARKER – CURRICULUM VITAE – February 2023

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### EDUCATION

Ph.D. University of California, Santa Barbara, USA, 1977 (Ecology)  
M.A. University of California, Santa Barbara, USA, 1975 (Ecology)  
B.A. University of Texas, Austin, USA, 1973 (Biology) (Cum Laude, Phi Beta Kappa)

### PROFESSIONAL EXPERIENCE

1980- Full (1987-present), Associate (1984-87), and Assistant Professor (1980-84), Department of Biology, San Francisco State University, San Francisco, CA, USA; Director, Sierra Nevada Field Station, (1980-85); Acting Chair, Department of Biology (1998-99)  
1977-1980 Assistant Professor, Biology Department, Rider College, Lawrenceville, NJ, USA

### HONORS

1973 Phi Beta Kappa, Alpha of Texas  
1976-1977 Regent's Fellow, University of California, USA  
1989 Fellow, California Academy of Sciences  
2018 Distinguish Faculty Award in Professional Achievement (Research), SF State

### RESEARCH INTERESTS

Community and evolutionary ecology, especially climate change, changing fire regimes and sea level rise impacts on natural vegetation dynamics, evolution of *Arctostaphylos* (Ericaceae) and *Ceanothus* (Rhamnaceae); public engagement on ecological issues.

### PUBLICATIONS

#### Books

*A Field Guide to Manzanitas*. 2021. *Second Edition (2015 1<sup>st</sup> Ed)*. M Kauffmann, VT Parker, MC Vasey with J Bisbee (photographer). Backcountry Press, Kneeland, CA, 170 pp. First edition; 2015.  
*Seedling Ecology and Evolution*. 2008. MA Leck, VT Parker, RL Simpson (eds.). Cambridge University Press, Cambridge & New York.  
*Ecological Scale: Theory and Applications*. 1998. D Peterson, VT Parker (eds.) Complexity in Ecological Systems series. Columbia University Press, NY.  
*Ecology of Soil Seed Banks*. 1989. MA Leck, VT Parker, RL Simpson (eds). Academic Press, San Diego.

#### Peer-reviewed journal articles and book chapters

##### 2020-present (14)

Graham-Bruno, R, MA Stickrod, VT Parker. Constraints on *Cirsium hydrophilum* var. *hydrophilum*, an endangered tidal wetland species. *In press*. Wetland Ecology and Management.  
Crowe, RE, VT Parker. *In press*. Morphological and ecological variation of *Arctostaphylos* fruit: a link between plant ecology and animal foraging behavior. Ecology & Evolution.  
Griffith DM, KB Byrd, N Taylor, L Bittner, B O'Brien, MC Vasey, VT Parker, R Pavlick, RR Nemani. 2023. Variation in leaf reflectance spectra across the California flora partitioned by evolutionary history, geographic origin, and deep time. J. Geophysical Res: Biogeosciences 128(2): e2022JG007160  
Parker VT, Ingalls S. 2022. Seed size-seed number trade-offs: Influence of seed size on the density of fire-stimulated persistent soil seed banks in *Arctostaphylos* (Ericaceae). American Journal of Botany 109(3): 486-493. DOI:10.1002/ajb2.1825

- Parker VT, Stickrod, MA. 2022 (online 2021). Plants adapting to drought and fire: phenological shifts in the Arbutoideae (Ericaceae) indicate important transitions in the evolutionary selective context for seed ecology including a role for animals. *Botany* 100(4): 387–399., doi: 10.1139/cjb-2021-0163.
- Parker VT. 2021. Absence of flowering shifts in *Arctostaphylos* and *Ceanothus* over the past century of climate warming. *Madroño* 68(4): 461-472.
- Serkanic S, Parker VT, Schierenbeck K. 2021. Complexity in polyploid species origin and establishment: Chloroplast capture in *Arctostaphylos* (Ericaceae). *Systematic Botany* 46 (3): 666-677.
- Parker VT. 2021. Small-scale winter damage on plants: wind and ice can remove plant pubescence. *Western North American Naturalist*: 81(3): Article 7. Available at: <https://scholarsarchive.byu.edu/wnan/vol81/iss3/7>
- Garaventa J, Parker VT. 2021. Extended seed rain period of *Adenostoma fasciculatum* impacts diverse seed predators. *PLOS One*: <https://doi.org/10.1371/journal.pone.0250290>
- Parker VT, Yunker C, Wechsler G, Vasey MC. 2020. Allopatry, hybridization, and reproductive isolation in *Arctostaphylos* (Ericaceae). *American Journal of Botany* 107(12): 1798-1814.
- Parker VT. 2021. *Arctostaphylos* Seed Banks. Mendeley Data, V1, doi: 10.17632/kffynfynpy.1
- Parker VT. 2021. Arbutoideae phenology. Mendeley Data, V1, doi: 10.17632/w8cf9wc8zv.1
- Parker VT. 2020. Phenology & field morphology, Dryad, Dataset, <https://doi.org/10.5061/dryad.b2rbnzsck>
- Huang Y, GR Morrison, A Brelsford, J Franklin, DD Jolles, JE Keeley, VT Parker, N Saavedra, AC Sanders, TR Stoughton, GA Wahlert, and A Litt. 2020. Subspecies differentiation in an enigmatic chaparral shrub species. *American Journal of Botany* 107(6): 1–18.

### 2010-2019 (43)

- Burge DO, VT Parker, M. Mulligan, V Sork. 2019. Influence of a climatic gradient on genetic exchange between two oak species. *American Journal of Botany* 106: 864-878.
- Black D, R Patterson, VT Parker. Dedication to Jessica Mae Orozco. *Madroño* 66(1), 1-3, (5 June 2019). (editor reviewed) <https://doi.org/10.3120/0024-9637-66.1.1>
- Parker VT. 2019. California chaparral. In: Reference Module of Earth Systems and Environmental Sciences, World Biomes. <https://doi.org/10.1016/B978-0-12-409548-9.11894-9>
- Parker VT, Boyer K. 2019 (2017). Sea-level rise and climate change impacts on an urbanized Pacific Coast Estuary. *Wetlands* 39:1219–1232, *online 6 December 2017*.
- Wrubel E, VT Parker. 2018. Vascular plant diversity along salt exposure and water availability gradients in coastal California. *Ecology & Evolution*: <https://doi.org/10.1002/ece3.4104>
- Burge DO, VT Parker, M Mulligan, C Garcia. 2018. Conservation genetics of the endangered Del Mar manzanita (*Arctostaphylos glandulosa* subsp. *crassifolia*) based upon rad sequencing data. *Madroño* 65: 117-130.
- Owens MT, G Trujillo, ... VT Parker, ... KD Tanner (61 authors). 2017. Collectively Improving Our Teaching: Attempting Biology Department-wide Professional Development in Scientific Teaching. *CBE: Life Sciences Education* 17(1): ar2, 1–17.
- Keeley JE, Parker VT, Vasey MC. 2017. Characters in *Arctostaphylos* (Ericaceae). *Madroño* 64: 138-153.
- Parker VT, JB Pratt, JE Keeley. 2017. Chaparral, Threats and Responses, pp. 35-36. In: HA Mooney and E Zavaleta (eds.) *Ecosystems of California – Threats and Responses, Supplement for Decision-Making*. University of California Press, Berkeley.
- Simpson AG, KA Schierenbeck, VT Parker, C Ivey. 2017. Not all plant taxa display typical latitude-propagule size gradients: a case study in *Arctostaphylos* (Ericaceae). *Madroño* 64: 83-91.
- Parker VT, MC Vasey. 2016. Two newly described subspecies of *Arctostaphylos* (Ericaceae) and implications for understanding diversification in this genus. *Madroño* 63(3): 283-291.
- Keeley JE, VT Parker, MC Vasey. 2016. Resprouting and seeding hypotheses: A test of the gap-dependent model using resprouting and obligate seeding subspecies of *Arctostaphylos*. *Plant Ecology* 217: 743-750.
- Peterson NB, VT Parker. 2016. Scatter-hoarding increases seed survival even at soil depths with killing heat pulse. *Ecology & Evolution*, doi:10.1002/ece3.2156.
- Parker VT, JB Pratt, JE Keeley. 2016. Chaparral, pp. 479-507. In: HA Mooney and E Zavaleta (eds.) *Ecosystems of California – A Source Book*. University of California Press, Berkeley.
- Parker VT. 2015. Seed bank divergence between *Arctostaphylos* Adans. (Ericaceae) and *Ceanothus* L. (Rhamnaceae) suggests different seed predator interactions. *Ecologia Mediterranea* 41(2): 5-13.
- Parker VT. 2015. Large-scale disturbances transform dispersal mutualism into fire adaptation. *PLoS ONE* 10(7): e0132625. doi: 10.1371/journal.pone.0132625

- Parker VT. 2015. Soil seed banks. Encyclopedia Britannica. (editor reviewed)  
<http://www.britannica.com/EBchecked/topic/2022981/soil-seed-bank>
- Parker VT. 2014. A newly described serpentine-endemic *Ceanothus* (Rhamnaceae) in coastal Marin County, California. *Madroño* 61: 399-406.
- Schile LM, Callaway JC, Morris JT, Stralberg D, Parker VT, et al. 2014. Modeling Tidal Marsh Distribution with Sea-Level Rise: Evaluating the Role of Vegetation, Sediment, and Upland Habitat in Marsh Resiliency. *PLoS ONE* 9(2): e88760. doi:10.1371/journal.pone.0088760
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- Vasey MC, ME Loik, VT Parker. 2012. Influence of summer marine fog and low cloud stratus on water relations of evergreen woody shrubs (*Arctostaphylos*: Ericaceae) in the chaparral of central California. *Oecologia* 170:325–337.
- Vasey MC, VT Parker, LM Schile, JC Callaway, ER Herbert. 2012. Vegetation of the tidal wetlands in SF Bay-Delta. *San Francisco Estuary and Watershed Science* 10(2). <http://escholarship.org/uc/item/44z5v7xf>
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- Callaway JC & VT Parker. 2012. Current issues in tidal marsh restoration. In: *Tidal Salt Marshes of the San Francisco Bay Estuary: ecology, restoration, preservation*, pp. 253-262. A Palaima (ed.) University of California Press, Berkeley.
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- Parker VT, LM Schile, MC Vasey and JC Callaway. 2011. Do gradient-directed transects work at small scales: A test using tidal wetland vegetation sampling design. *Ecosphere* 2: art99. [doi:10.1890/ES11-00151.1]
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- Parker VT. 2011. Diversity and management of rare *Arctostaphylos* and *Ceanothus* species in chaparral. In: Willoughby, JW, BK Orr, KA Schierenbeck, and NJ Jensen (eds.) *Strategies and Solutions*, pp. 233-238. CNPS, Sacramento, CA
- Parker VT, ER Herbert, JC Callaway, LM Schile, and MC Vasey. 2011. Climate change impacts on San Francisco Bay-Delta tidal wetlands. In: Willoughby, J.W., B.K. Orr, K.A. Schierenbeck, and N.J. Jensen (eds.) *Strategies and Solutions*, pp. 239-244. CNPS, Sacramento, CA
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- 2000-2009 –(30)**
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- Leck MA, VT Parker, RL Simpson. 2008. Seedling ecology and evolution, an introduction, pp. 1-16. In: MA Leck, VT Parker, RL Simpson (eds). *Seedling Ecology and Evolution*. Cambridge University Press, Cambridge.
- Parker VT. 2007. Diversity and Evolution of *Arctostaphylos* and *Ceanothus*. *Fremontia* 35 (4): 8-11.
- Parker VT. 2007. Status and Management Recommendations for *Arctostaphylos virgata* (Marin Manzanita) in Point Reyes National Seashore. Technical report for NPS Point Reyes National Seashore. 82 pp.
- Callaway J, VT Parker, MC Vasey, L. M. Schile. 2007. Emerging issues for the restoration of tidal marsh ecosystems in the context of predicted climate change. *Madroño* 54 (3):234–248.
- Parker VT, MC Vasey, JE Keeley. 2007. Taxonomic revisions in the genus *Arctostaphylos* (Ericaceae). *Madroño* 54 (2): 148-155.
- Keeley JE, MC Vasey, VT Parker. 2007. Subspecific variation in the widespread burl-forming *Arctostaphylos glandulosa*. *Madroño* 54 (1): 42-62.
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- Land E, K Withee, LM Schile, VT Parker. 2006. User centered rapid application development. In: N. Guelfi, A. Savidis (eds.) *Rapid integration of software engineering techniques*. (Springer-Verlag; Berlin). *Lecture Notes in Computer Science* Vol. 3943: 34-49.
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- Douglas RB, VT Parker, KW Cullings. 2005. Belowground ectomycorrhizal community structure of mature lodgepole pine and mixed conifer stands in Yellowstone National Park. *Forest Ecology and Management* 208 (2005) 303–317.

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- Parker VT. 2002. The concept of the ecological community and a clash of perspectives: A reply to Looijen and van Andel. *Persp. Plant Ecol. Evol. Syst* 5:139-143.
- Parker VT. 2001. Conceptual problems and scale limitations of defining ecological communities: A critique of the CI concept (Community of Individuals). *Perspectives in Plant Ecology, Evolution, and Systematics* 4, 80-96.
- Clark CJ, JR Poulsen, VT Parker. 2001. Frugivore impact on seed rain patterns in a central African tropical forest. *Biotropica* 33: 606-620.
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- Cullings KW, DR Vogler, VT Parker, SK Finley. 2000. Specificity of ectomycorrhizal interactions in a mixed *Pinus contorta/Picea engelmannii* forest in Yellowstone National Park. *Applied Environmental Microbiology* 66: 4988-4991.
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#### 1990-1999 –(22)

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- Parker VT, CH Muller. 1979. Allelopathic dominance by a tree associated herb in a California annual grassland. *Oecologia* 37:315-320.

### PROFESSIONAL ACTIVITIES (last 20 years)

- President, California Botanical Society (2009-2014); Past-president on Council (2014-2018)
- Editor, Newsletter of the California Botanical Society, *Nemophila* (2015-2018)
- Board of Editors, *Ecologia Mediterranea*, North American representative (2014-present)
- Science Effects Analysis Panel, Bay-Delta Conservation Plan, State of California (2011-2014)
- Wetlands Regional Monitoring Program, SF Bay-Delta, Vegetation SOP Panel (2021-2023)
- New management plan for the Presidio Manzanita; The Presidio Trust, National Park Service; and co-author of a conservation and management plan for the Franciscan Manzanita. 2009
- Modification of Fire Management Plan, Point Reyes National Seashore, to account for rare manzanitas and other rare shrubs. 2007
- Board member, Central Coast Fire Learning Project, out of Elkhorn Slough NERR, 2010-2012.
- Arctostaphylos* identification workshops (Jepson Herbarium Workshops; Santa Rosa Chapter, California Native Plant Society, Chico State herbarium) ongoing since 1994.
- Maritime chaparral workshops (Elkhorn Slough National Estuarine Research Reserve, Coastal Education Program), 2003-2010.
- Science Advisory Board, Nevada County 2020 Project (Nevada County, California) (1999-2003).
- Pacifica Land Trust, Board member, 1990-1993, 1996-1998, (President, 1990-1993)
- Colinas Costeras 501c3 nonprofit, 2020-present; Advisory Board Member. (California Coastal conservation/education organization).

### ADMINISTRATIVE POSITIONS

- Director, Sierra Nevada Field Campus (1980-1985), San Francisco State University
- SF State Department of Biology, Acting Chair 1998-1999, Division Chair, (1988-1991), Chair, Hiring, Tenure and Promotion Committee (1994-1997; 2012-2014)
- President, Pacifica Land Trust (1990-1993), Board Member (1997-1999)
- California Botanical Society; President (2009-2014), Recording Secretary (1985-1988); Member of the Council, (2014-2018)
- Chair, Member, University Tenure and Promotion Committee, SF State, (2009-2011)
- Member, Distinguish Faculty and Staff Awards Committee, SF State (2018-2020)

### TEACHING ACTIVITIES (all classes ever taught):

*Lower Division:* Introductory Botany, Introductory Biology 2, Introductory Botany, Introductory Zoology, Botany and Biology labs;

*Upper Division:* Ecology of California (GE, General Education), World of Plants (GE), Plants of California (GE), Human Ecology (GE), Plant Ecology, General Ecology, Plant Anatomy; Evolution and Diversity of Plants.

*Graduate Level:* Fire Ecology, Community Ecology, Global Climate Change, Physiological Plant Ecology, miscellaneous seminars.

Masters Students: Completed their research degree: 66 Master's students (65% women and 15% underrepresented minorities).