

Bibliography

Attia, Shady. "The Role of Landscape Design in Improving the Microclimate in Traditional Courtyard-Buildings in Hot Arid Climates." Geneva, Switzerland: Wageningen University, The Netherlands, 2006.

Bargebuhr, Frederick P. *The Alhambra: A Cycle of Studies on the Eleventh Century in Moorish Spain*. Walter de Gruyter, 1968.

Bennison, Amira K, and British Academy. *The Articulation of Power in Medieval Iberia and the Maghrib*, 2014.

Dodds, Jerrilynn Denise, ed. *Al-Andalus: The Art of Islamic Spain*. New York: Metropolitan Museum of Art : Distributed by H.N. Abrams, 1992.

García-Pulido, Luis Jose. "Análisis Evolutivo Del Territorio de La Alhambra (Granada)." Doctoral Thesis, Universidad de Granada, 2008.

Gharipour, Mohammad. *Persian Gardens and Pavilions: Reflections in History, Poetry and the Arts*. London; New York: I.B. Tauris, 2013.

Grabar, Oleg. *The Alhambra*. Cambridge, Mass.: Harvard University Press, 1978.

Moore, Charles W., William J. Mitchell, and William Turnbull Jr. *The Poetics of Gardens*. Reprint edition. Cambridge, MA: The MIT Press, 1993.

O'Hara, Christine Edstrom. "Moorish to Modern." *Pacific Horticulture Society*, July 2012. <http://www.pacifichorticulture.org/articles/moorish-to-modern-ancient-lessons-for-contemporary-gardens/>.

Ruggles, D. Fairchild. *Gardens, Landscape, and Vision in the Palaces of Islamic Spain*. University Park, Pa.: Pennsylvania State Univ Pr, 2003.

———. *Islamic Gardens and Landscapes*. Philadelphia: University of Pennsylvania Press, 2008.

Salmerón Escobar, Pedro, and Diana Kelham. *The Alhambra: Structure and Landscape*. Granada; Jaén; Córdoba: Patronato de la Alhambra y Generalife ; Tinta Blanca Editor ; Editorial Almuzara, 2007.

Sullivan, Chip, and Marc Treib. *Garden and Climate*. New York: McGraw-Hill, 2002.

T.F. Editores, CA. *Alhambra and the Generalife: Official Guide*. Madrid: T.F. Editores, S.L.C., 2011.



The author and his sister, Jeana, on the Torre de la Vela in 2005

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Fig. 1-3 A.H. Fitzwilliam-Hall, "An Introductory Survey of the Arabic Books of Filā a and Farming Almanacs," Archive, *Filaha Texts*, (October 2010), <http://filaha.org/introduction.html-JK-25-03-2011>.

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Fig. 1-6 Maler, *Die Geschichte von Bayād Und Riyād*, Deutsch: Papier, 1200s, Vatikan, Bibliotheca Apostolica, https://commons.wikimedia.org/wiki/File:Maler_der_Geschichte_von_Bay%C3%A2d_und_Riy%C3%A2d_002.jpg.

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II.

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a color, 37 x 42 cm., s.e., 0 - 99 (Château de Vincennes (Francia): Service Historique de l'Armée de Terre, 1811), <http://www.alhambra-patronato.es/ria/handle/10514/5618>.

Fig. 2-3 James Cavanah Murphy and Thomas Hartwell Horne, *The Arabian Antiquities of Spain* (London: Cadell & Davies, 1815), http://archive.org/details/gri_33125008545499.

Fig. 2-4 D. Fairchild Ruggles, *Gardens, Landscape, and Vision in the Palaces of Islamic Spain* (University Park, Pa.: Pennsylvania State Univ Pr, 2003).

Fig. 2-5 Ibid. 97.

Fig. 2-6 Ibid. 46.

Fig. 2-7 Jerrilynn Denise Dodds, ed., *Al-Andalus: The Art of Islamic Spain* (New York: Metropolitan Museum of Art : Distributed by H.N. Abrams, 1992). 57.

Fig. 2-8 Ruggles, *Gardens, Landscape, and Vision in the Palaces of Islamic Spain*. 157.

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Fig. 2-10 Ibid. C14.

Fig. 2-11 CA T.F. Editores, *Alhambra and the Generalife: Official Guide* (Madrid: T.F. Editores, S.L.C., 2011). 242.

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Fig. 2-13 T.F. Editores, *Alhambra and the Generalife*. 243.

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Fig. 2-17 D. Fairchild Ruggles, *Islamic Gardens and Landscapes* (Philadelphia: University of Pennsylvania Press, 2008). 16.

Fig. 2-18 Ibid.

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Fig. 2-23 Gordon Loud, *Khorsabad, Part 1: Excavations in the Palace and at a City Gate* (Chicago: The University of Chicago Press, 1936), <https://oi.uchicago.edu/research/publications/oip/oip-38->

[khorsabad-part-1-excavations-palace-and-city-gate](#).

Fig. 2-24 Ibid.

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Fig. 2-27 Ibid. 283.

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Fig. 2-34 "Hanging Gardens of Babylon," *Wikipedia, the Free Encyclopedia*, January 25, 2016, https://en.wikipedia.org/w/index.php?title=Hanging_Gardens_of_Babylon&oldid=701591639.

Fig. 2-35 David Stronach and Hilary Gopnik, "Pasargadae," *Encyclopedia Iranica*, July 20, 2009, <http://www.iranicaonline.org/articles/pasargadae>. Figure 3.

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Fig. 2-38 Jeffrey Hays, "Bedouin Nomadic Life," *Facts and Details*, January 2012, <http://factsandde->

III.

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Fig. 3-3 Instituto Geográfico Nacional, "Modelo Digital Del Terreno (MDT05-LIDAR), Cuadrícula 1009." (Instituto Geográfico Nacional, 2010), <http://www.ign.es/ign/layoutIn/modeloDigitalTerreno.do>.

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Fig. 3-7 Instituto Geográfico Nacional, “Modelo Digital Del Terreno (MDT05-LIDAR), Cuadrícula 1009.”

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Fig. 3-19 UCLA AUD, Climate Consultant (Los Angeles: University of California Los Angeles Architecture and Urban Design, 2015), <http://www.energy-design-tools.aud.ucla.edu/climate-consultant/request-climate-consultant.php>.

Fig. 3-20 Garzon, View into Hall of Ambassadors toward Northeast, B & W print, unknown, Fine Arts Library, http://archnet.org/media_contents/2331.

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Fig. 3-25 Unknown, Court of the Lions, perspective drawing, Architecture, Urban Planning, and Visual Arts, Archnet, accessed February 17, 2016, <http://dome.mit.edu/handle/1721.3/23209>.

Fig. 3-26 Manuel López Reche, Alhambra. Patio de Los Leones. Planta. Disposición de Las Plantas Del Jardín, accessed November 6, 2015, <http://www.alhambra-patronato.es/ria/handle/10514/3903>.

Fig. 3-27 Del : Manuel López Bueno, “Partal. Balcón de Casa árabe. Alzado,” Plano, (October 5, 2009), <http://www.alhambra-patronato.es/ria/handle/10514/3710>.

Fig. 3-28 CA T.F. Editores, Alhambra and the Generalife: Official Guide (Madrid: T.F. Editores, S.L.C., 2011).

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Fig. 3-33 John Moody, 2015.

Fig. 3-34 Sullivan and Treib, Garden and Climate. 101.

Fig. 3-35 Ibid.

Fig. 3-36 Transsolar KlimaEngineering, “Granada Soil Temperature” (Transsolar KlimaEngineering, 2015).

IV.

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