Curriculum Vitae August 2026 ***Ronald I. Dorn***

Business:
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Education:
A.B.(Geography), University of California, Berkeley, 1980
M.A.(Geography), University of California, Berkeley, 1982
Ph.D.(Geography), University of California, Los Angeles, 1985

Biographical Sketch**:** Ronald I. Dorn has been a Professor of Geography at Arizona State University, Tempe, Arizona since 1988. He served previously on the faculty at Texas Tech University. He has been President and Secretary/Treasurer of the Geomorphology Specialty Group and as chair of the Nystrom Committee of the Association of American Geographers. He is a Fellow of the Geological Society of America and the Arizona/Nevada Academy of Science, and a member of the Association of American Geographers and the Association of Pacific Coast Geographers. He is married, has two children and two grandchildren.

Present Research Activities**:** desert geomorphology, rock art conservation, petroglyph analysis, quantification and geography of mineral weathering, geographic education, tyranny of the majority in science, rock coatings

Positions

Arizona State University, Tempe : Assistant, Associate, and Full Professor of Geography (1988-current); Co-Coordinator, Arizona Geographic Alliance (1996- current)

Texas Tech University, Lubbock: Assistant and Associate Professor of Geography (1985- 1988); Research Associate, International Center Arid and Semi-Arid Land Studies (1985-1988).

Books: *Rock Coatings*. (No. 6 in Developments in Earth Surface Processes Series) Elsevier, 1998. 429 pp.

Geomorphology: Mojave Desert to Death Valley. Guide to Field Excursion A3. International Association of Geomorphologists Third International Geomorphology Conference. Tempe, Arizona: Arizona State University, Department of Geography Publication #4, 137 p., 1993. (with Norman Meek)

Refereed Articles and Book Chapters

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198. Shandonay, K.L., Dorn, R.I., Frazier, A.E., Huot, S., and Schmeeckle, M. 2026. Multiscale analysis of dune reddening in the Sonoran Desert, Arizona, USA. Physical Geography. https://www.tandfonline.com/doi/full/10.1080/02723646.2026.2665696

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196. Clements R.L. Dorn, R.I. Scheeckle, M.W. and Gordon, S.J. 2025. Lenticular-shaped boulders of South

Mountains, central Arizona, USA. Physical Geography 46 (6): 565-584, https://doi.org/10.1080/02723646.2025.2556915

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193. Dorn, R.I. Larson, P.H. and Jeong, A. Landforms on Faulted Rocks, in Essentials of Geomorphology, Schaetzl, R. and Marson R., Editors. Cambridge University Press.

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191. Roberts, M., Haar, M., Messer, O, and Dorn, R.I. 2024. Equilibrium and non-equilibrium adjustment of tributary drainages in response to downcutting of the Salt River, Northeastern Sonoran Desert, Arizona. Association of Pacific Coast Geographers Yearbook 86: 1-16.

190. Seong, Y.B., Shandonay, K., Dorn, R.I., Gootee, B., and Yu, B.Y. 2024. Speculation on an early Pleistocene origin of the Parker Dunes of southwest Arizona, USA. Aeolian Research 70-71: 100943

189. Dorn, R.I. 2024. Rock varnish revisited. Progress in Physical Geography 48: 389-419. https://doi.org/10.1177/03091333241248038

188. Moll, H.L., Dorn, R.I. 2023. Addressing out-of-field geography teaching in Arizona, USA, through summer workshops to build a cadre of geography advocates. Geographical Education, 36: 1-15.

187. Jeong A., Seong Y.B., Dorn, R.I. and Yu, B.Y. 2023. Precipitation as a key control on erosion rate in the tectonically inactive northeastern Sonoran Desert, central Arizona, USA. Physical Geography: https://doi.org/10.1080/02723646.2023.2251654

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140. Dorn, R.I., Gordon, M., Pag&#65533;n, E.O., Bostwick, T.W., King, M. and Ostapuk, P. 2012. Assessing early Spanish explorer routes through authentication of rock inscriptions. Professional Geographer. 64: 415-429.

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7. 1989. Nobbs, M. and Dorn, R.I. Reply to Further Invited Comments on "Age- determinations for rock varnish formation within petroglyphs: cation-ratio dating of 24 motifs from the Olary region of arid South Australia." Rock Art Research 6: 63- 67.

6. 1989. Dorn, R.I. Comment on "A note of the characteristics and possible origins of desert varnishes from SE Morocco" by B.J. Smith and W.B. Whalley. Earth Surface Processes and Landforms. 14: 167-170.

5. 1988. Nobbs, M. and Dorn, R.I. Reply to Invited Comments on "Age-determinations for rock varnish formation within petroglyphs: cation-ratio dating of 24 motifs from the Olary region of arid South Australia." Rock Art Research 5: 143-144.

4. 1988. Dorn, R.I. Reply to letter by A. Gillespie on "Radiocarbon and cation-ratio ages for rock varnish on Tioga and Tahoe morainal boulders of Pine Creek, eastern Sierra Nevada in California, and Paleoclimatic Implications. Quaternary Research 30:104-105.

3.1987. Dorn, R.I., DeNiro, M.J., and Ajie, H.O. 1987. Reply to comment by Wells and McFadden on "Isotope evidence for climatic influence on alluvial-fan development in Death Valley, California. Geology 15: 1179-1180.

2. 1987. Dorn, R.I. Review of Geomorphology and Soils, ed. K.S. Richard, R.R. Arnett and S. Ellis, Allen & Unwin (1985) in Professional Geographer 39: 124.

1. 1987. Dorn, R.I. Response to Presentation of the Kirk Bryan Award. Geological Society of America Bulletin 99: 155.

Courses Taught

ASU 101
Introduction to Physical Geography
Society and Environment
Freshman Seminar for Learning Community on Sustainability
Field Methods
Teacher Training Workshops
Applied Geomorphology
Introduction to Landform Processes
Regional Geomorphology
Quaternary Environments
Principles of Remote Sensing
Digital Image Processing
Landforms of the Western United States
Environmental Change
Weathering Seminar
Field/Lab Methods in Quaternary Research
Physical Geography Forum
ST: Desert Geomorphology
Introduction to Research Methods
Honors, Physical Geography
Global Change
Physical Geography Seminar

Teaching Geography Standards
Rock Coatings
Research on Teaching College Geography
Field Methods
Core Courses for Masters of Advanced Study in Geographic Education (Introduction to Geographic Teaching, Physical Geography for Teachers, Human Geography for Teachers, Geographic Techniques for Teachers, World Geography for Teachers, North American Geography for Teachers, Geography Across the Curriculum)

Theses and Dissertations Supervised or Co-Supervised

Student	Title	Year, Degree	First Appointment After Degree
Peter Goodwin	Geomorphic interpretation of digital SPOT imagery; Hanaupah Canyon alluvial fan, Death Valley, California	1988, M.A. Thesis Texas Tech University	Chevron Overseas Remote Sensing Unit, San Francisco
Steve Stadelman	Pedogenesis and geomorphology of Hanaupah Canyon alluvial fan, Death Valley, California	1989, M.A Thesis Texas Tech University	Ph.D. Student, Texas Tech University
Gregory Pope	Quartz decrystallization in glacial tills, eastern Sierra Nevada, California	1990, M.A. Thesis, Arizona State University	Ph.D. Student at Arizona State University
Thad Wasklewicz	Importance of environment on basalt weathering, Hawaii	1992, M.A. Thesis Arizona State University	Ph.D. Student at Arizona State University
Thomas R. Paradise	Weathering-constrained erosion of sandstone at the Roman Theather, Petra Jordan	1993, Ph.D. Dissertation, Arizona State University	Assistant Professor at University of Hawaii at Hilo
Gregory Pope	A weathering boundary layer model to interpret spatial variation in quartz weathering	1994, Ph.D. Dissertation, Arizona State University	Assistant Professor Montclair State University
Tanzhuo Liu	Visual microlamina-tions in rock varnish: a new paleoenviron-	1994, Ph.D. Dissertation, Arizona State University	Postdoctoral Fellow at Lamont-Doherty Earth Observatory,

	mental and geomor-phic tool in drylands		Columbia University
Molly Pohl	Radiocarbon dating in drylands	1995, M.A. Thesis, Arizona State University	NSF Graduate Fellow, Ph.D. Student at Arizona State University
Steve Gordon	Assessing the effects of temperature on plagioclase weathering, Iztaccihuatl, Mexico	1996, M.A. Thesis, Arizona State University	Ph.D. Student at Arizona State University
Donald Friend	Evolution of desert colluvial boulder fields, eastern California	1997, Ph.D. Dissertation, Arizona State University	Assistant Professor, Mankato State University (Now Minnesota State University)
Steve Gordon	An analysis of volcanic glass weathering, El Malpais National Monument, New Mexico, USA	1999, Ph.D. Dissertation, Arizona State University	Assistant Professor, United States Air Force Academy, Colorado Springs
Niccole Cerveny	Relationships between internal fractures and surface microtopography of quartz grains	2000, M.A. Thesis, Arizona State University	Instructor, Scottsdale Community College
Brandon Vogt	Weathering of a tombstone sphere, Tempe, Arizona	2000, M.A. Thesis, Arizona State University	Ph.D. Student Arizona State University
Michael Henze	Sediment yield on Spook Hill Pediment, Arizona	2000, M.A. Thesis, Arizona State University	Consultant, J.E. Fuller
Lorenzo Vazquez Selem	Glacial Chronology of Iztaccihuatl Volcano, Central Mexico. A Record of Environmental Change on the Border of the Tropics	2000, Ph.D. Dissertation, Arizona State University	Research Professor, UNIVERSIDAD NACIONAL AUT&#65533;NOMA DE M&#65533;XICO, Mexico City

Mike Applegarth	Interpretation of pediment form using geographic information technology and field data	2001. Ph.D. Dissertation, Arizona State University	Assistant Professor, Shippinsburg State University
Evan Palmer	Feasibility and implications of a rock coating catena: Analysis of a desert hillslope	2002, M.A. Thesis, Arizona State University	United States Air Force
Kathryn Anne Gross	Analysis of lateral channel stability for a portion of New River, Arizona, Between 1964-2000	2002, M.A. Thesis, Arizona State University	Hydrologist, Maricopa County Flood Control District
Daniel A. Gilewitch	Military Geography: The Interaction of Desert Geomorphology and Military Operations	2003, Ph.D. Dissertation, Arizona State University	Assistant Professor, United States Army Military Academy, West Point
Kevin A. Green	Debris slope/pediment adjustment to hydraulic processes through analyses of particle size-slope relations in different lithologies	2003, M.A. Thesis, Arizona State University	Ph.D. Student, University of Oregon
Rebecca S. Beard	Stream channel change in response to cattle exclosures in semi-arid riparian ecosystems	2003, M.A. Thesis, Arizona State University	Research Assistant, Ecuadorian Andes Land Use Change Project, University of Texas, Austin
Kathleen M. Bergmann	Urban impacts on Rillito Creek	2004, M.A. Thesis, Arizona State University	Army Corp of Engineers
John C. Douglass	Criterion approach to transverse drainages	2005, Ph.D. Dissertation, Arizona State University	Full-time instructor, Paradise Valley Community

			College, Paradise Valley, Arizona
Susan Johnson	Combining geography instruction with reading: Exploring the interplay in 3rd and 5th grade classrooms	2005, M.A. Thesis, Arizona State University	Elementary School Teacher, Virginia
Niccole Villa Cerveny	A weathering-based perspective on rock art conservation	2005, Ph.D. Dissertation, Arizona State University	Full-time Instructor, Mesa Community College
Wendy Bigler	Historical biocomplexity in irrigation agriculture: The Akimel O'Odham (Pima) and the Gila River, Arizona	2007, Ph.D. Dissertation, Arizona State University	Assistant Professor, Southern Illinois University
Douglas Frink	Explorations into a dynamic process-oriented soil science	2007, Ph.D. Dissertation, Arizona State University	Visiting Professor, Valdosta State University
Casey Allen	Using rock art as an alternative science pedagogy	2008, Ph.D. Dissertation, Arizona State University	Assistant Professor, University of Colorado-Denver
Elyssa Gutbrod	Implementing Rapid Assessment of the Trail Environments of Arid Regions: Indicator Development and Implementation Scenarios	2013, Ph.D. Dissertation, Arizona State University	GIS Professional Employment (Titan Mapping Solutions), Calgary, Canada
Emma Harrison	Introducing a terrestrial carbon pool in desert mountains	2013, M.A. Thesis, Arizona State University	Visiting Instructor, University of Wyoming
Phil Larson	Conceptual field-based models to elucidate the distribution and nature of desert fluvial terraces: Case studies within the	2013, Ph.D. Dissertation, Arizona State University	Assistant Professor, Minnesota State at Mankato

	Sonoran Desert, Basin and Range, Arizona.		
R. Evan Palmer	Analysis of the Spatial Thinking of College Students in Traditional and Web-facilitated Introductory Geography Courses using Aerial Photography and Geo-visualization Technology	2014, Ph.D. Dissertation, Arizona State University	Assistant Professor, Air Force Academy, Colorado Springs
Ara Jeong	Anthropocene in the Geomorphology of the Sonoran Desert	2019, Ph.D. Dissertation, Arizona State University	Assistant Professor, Korea Military Academy
Ryan Clement	Lenticular-shaped granitic core stones of South Mountains, central Arizona	2024, M.A. Thesis, Arizona State University	U.S. Air Force
Kenzie Shandonay	Assessing sand dune mobility through drought and vegetation analysis	2025, Ph.D. Dissertation, Arizona State University	Teaching Professor, Normandale Community College

Awards

2012 President's Medal of Social Embeddedness for the Teaching Foundations Project [led by Laura B. Turchi, shared with many others]
2010 Geography Excellence in Media Award from the National Council for Geographic Education. [Hinde, E.R., Jimenez-Silva, M., Ekiss, G.O., Dorn, R.I., Osborn Popp, S.E., Managing Editors, (2009, Version 5.4). *GeoLiteracy ELL Adaptations: Integrating Geography, Reading and Writing*. Tempe, AZ: Arizona Geographic Alliance.]
Distinguished Mentor Award from the National Council for Geographic Education, 2009.
College of Liberal Arts and Science's Innovation in Teaching Award, Arizona State University, 2009.
Enhancement of Geographic Literacy Cram Award, 2005 for GeoMath, National Council for Social Studies (with G.B. Ekiss and E. Hinde)
Professor of the Year Special Recognition, 2005, Arizona State University Parents Association
Enhancement of Geographic Literacy Cram Award, 2003 for GeoLiteracy, National Council for Social Studies

(with G.B. Ekiss and E. Hinde)
Guggenheim Fellowship, 1996-1997
Wiley Award, Presented for Excellence in Geomorphological Research, British Geomorphological Research Group, 1993 (with Roger LeB. Hooke)
Castleton Award, Presented for Excellence in Rock Art Research, American Rock Art Research Association, 1992
G.K. Gilbert Award, Presented for Excellence in Geomorphological Research, Geomorphology Specialty Group of the Assoc. American Geographers, 1988
New Professor Excellence in Teaching Award, Texas Tech University, 1988
Presidential Young Investigator Award of the National Science Foundation, 1987
New Faculty Award, Texas Tech University, 1987
Kirk Bryan Award of the Geological Society of America (with T.M. Oberlander), For Excellence in Geomorphological Research, 1986

Honors

Fellow of the Arizona-Nevada Academy of Sciences, 1996
Fellow of the Geological Society of America, 1992
Sigma Xi, 1986
National Science Foundation Graduate Fellowship, 1980-1984
Phi Beta Kappa, 1979