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Arlo Brandon Weil

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Geological Society of America

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Awards/Grants

- Outstanding Student Paper (Geomagnetism/Paleomagnetism Section) Spring AGU 2000
- Outstanding Student Paper (Tectonophysics Section) Fall AGU 2001
- NSF Academic Intern Fellowship
- University of Michigan F. Scott Turner Fellowship (1996-1999)
- IRM Visiting Research Fellowship 1999 and 2002 and 2010
- Bryn Mawr College Faculty Grant 2002, 2004, 2006, 2009
- NSF Research Grant 2004-2007 Three-Dimensional kinematic history of the Wyoming Salient: Implications for the development of curved orogens (\$136,466.00)
- NSF Equipment Grant 2004 Acquisition of new paleomagnetic lab equipment for Bryn Mawr College, Pennsylvania (\$114,446.90)
- Ministeria de Educacion y Ciencia Grant 2006– Oroclines and Delamination: Relations and Effects (\$90,743.00)
- NSF Research Grant 2010-2013 Determining the 3D kinematic evolution of the Wyoming Laramide, implications for processes of foreland deformation (\$127,332.00)
- UNESCO Project Grant IGCP 574 Bending and Bent Orogens, and Continental Ribbons- 5 years
- Ministeria de Educación y Ciencia Grant 2010
 Oroclines and Delamination: Relations and Effects II (ODRE) (\$136,466.00)
- Awarded Fellow of the Geological Society of America 2013
- NSF Research Grant 2014-2017 Interrelations between foreland deformation, flat-slab subduction, and crustal architecture: Integrated analysis of the Sierras Pampeanas to Cordillera of the south-central Andes (\$170,849)
- Ministeria de Educacion y Ciencia Grant 2014-2017 Oroclines and Delamination: Relations and Effects III (ODRE), with a focus on the Carpathians of eastern Europe (\$150,000.00)
- NSF Research Grant 2015-2018 Fold Form, Strain, and Mechanics at the Whaleback Anticline: New Approaches to a Classic Field Locality (\$150,000.00)
- Geological Society of America 2017 Outstanding Publication Award in Tectonics:
 - Yonkee, A. and Weil, A.B., 2015. Tectonic evolution of the Sevier and Laramide belts within the North American Cordillera orogenic system, Earth Science Reviews, 150, 531-593.
- The Marion Bridgman Slusser Professor in the Sciences Bryn Mawr College

Professional Societies

American Geophysical Union; Geological Society of America; Geological Society of Pennsylvania; Geologic Society of Philadelphia; Sigma XI Academic Society; European Geophysical Society

Graduate Advisors: Dr. Rob Van der Voo and Dr. Ben A. van der Pluijm (both at The University of Michigan)

Peer Reviewed Publications: Current H-index as of 2019 is 30.

- 1) Weil, A.B., Van der Voo, Mac Niocaill, C., and Meert, G.M., 1998. The Proterozoic supercontinent Rodinia: Paleomagnetically derived reconstructions for the 1,100 to 800 Ma interval, *Earth Planet Sci. Lett.*, 154, 13-24.
- 2) Karlstrom, Karl E., Bowring, S. A., Dehler, C.M., Knoll, A.H., Porter, S. M., Sharp, Z., Des Marais, D. J., **Weil, A.B.**, Geissman, J. W., Elrick, M., Timmons, M. J., Keefe, K. and Crossey, L. J., 2000. The Chuar Group of the Grand Canyon: Record of break up of Rodinia, associated change in the global carbon cycle, and eukaryotic diversification by 740 Ma, *Geology*, 28, 619-622.
- 3) Parés, J.M., Perez-Gonzalez, A., **Weil, A.B.** and Arsuaga, J.L., 2000. On the Age of the Hominid Fossils at the Sima de los Huesos, Sierra de Atapuerca, Spain: Paleomagnetic Evidence, *American Journal of Physical Anthropology*, 111, 451-461.
- **4) Weil, A.B.**, Van der Voo, R., van der Pluijm, B. and Parés, J.M., 2000. The Formation of an orocline by multiphased deformation: a paleomagnetic investigation of the Cantabria-Asturias Arc Hinge-Zone (northern Spain), *Journal of Structural Geology*, *22*, 735-756.
- **5) Weil, A.B.**, Van der Voo, R. and van der Pluijm, B., 2001. New paleomagnetic data from the southern Cantabria-Asturias Arc, northern Spain: Implications for true oroclinal rotation and the final amalgamation of Pangea, *Geology*, *29*, *991-994*.
- 6) Weil, A.B. and Van der Voo, R., 2002. Insights into the mechanism for orogen related

Selected Abstracts:

- ^Ashby, J.M., Geissman, J.M. and **Weil, A.B.**, 2001. Paleomagnetic results from the Neoproterozoic Uinta Mountain Group, Utah and Colorado, *Abstracts with Programs, GSA* 2001 Annual Meeting.
- Crider, G.C., Gray, M.B., Needle, M. and **Weil, A.B.**, Enhancing scientific and educational resources at the Whaleback Anticline, Bear Valley, Pennsylvania, *Abstracts with Programs, GSA* 2017 Annual Meeting, Seattle.
- ^Gage, J., Weil, A.W., and Pares, J., Preliminary AMS analysis of the Brevard Shear Zone, Rosman, NC, *Abstracts with Programs, GSA*

١	Onkee, A. and Weil, A.B., Unraveling the early LPS-stress history of the Laramide foreland: integrating field studies of minor faults with stress inversion and AMS studies:

University of California at Santa Cruz

University of California at Davis

University of Florida

University of Michigan – Smith Lecture Series

University of Michigan – Van der Voo lecture 2023

University of Minnesota – Institute of Rock Magnetism (3)

University of Nevada Reno

University of Oslo, Norway

University of Oklahoma

University of Salamanca, Spain

University of Texas at Austin (co-authored)

University of Wisconsin

University of Wisconsin - Structural Geology and Tectonics Forum

University of Wyoming Distinguished lecture series

University of Utah (co-authored)

Utah State University (2)

Weber State University, Utah (2)

West Chester University (2)

Williams College

Convened Professional Meeting Sessions

2000 - Rock- and Paleo-Magnetism

American Geophysical Union 2000 Spring Meeting

2001 - Geomagnetism and Paleomagnetism

American Geophysical Union 2001 Fall Meeting

2002 - Topical - Thrust Belt Curvature: Integrating Paleomagnetic and Structural Analysis

Geological Society of America 2002 National Meeting

2007 - New Innovations in Rock- and Paleo-Mæญnī∞ti≰iro)(1r4)(tayri)-4 (2)62.6tt)∂1(tru)⊱4 (ro)4 (t)6.1 (u)-4 (ral)]JJ-0 Tih§rætieophdySitraldtt2r:1il-3 (a)5 (I U)3 (n)5 (io)4 (n)5 (2)-2 2 SpringAlv1æbySis1 (r4 (in)g(aly)4 (s)n01 Tw 2)-7i Tc - (t)-hTc 0.003 Tw3 (

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- ^Peiying Wen Paleomagnetism of Laramide red beds, Bryn Mawr Summer Science Research Program (2010).
- \$^**Jamie Kindall- AMS of Laramide deformed red beds, in completion of a senior thesis (2011).
- **Erin Lynch Polyphase Deformation of Precambrian Metasediments of the South Snowy Block, Beartooth Mountains, Yellowstone National Park, Wyoming and Montana, in completion of a senior thesis (2011).
- ^**Meghan Fisher Analysis of Slow Slip Triggered Tremors using Sonification and Audio Displays, in completion of a senior thesis (2011).
- \$^**David Wicks Paleomagnetism of Iberian carbonates, in completion of a senior thesis (2011).
- \$^**Mary Shultz Rocky Mountain Tectonics Structural geology of the Wyoming Laramide, Bryn Mawr Summer Science Research Program (2011).
- ^**Amelia Lee Zhi Yi Rocky Mountain Tectonics Paleomagnetism of the Wyoming Laramide, Bryn Mawr Summer Science Research Program (2011).
- **ABryan Gulotta**, Rupture propagation and slip at complex fault intersections: The San Andreas-San Jacinto-Cucamonga fault system in Cajon Pass, CA, in completion of a senior thesis (2012).
- ^**Alina Bricker, Tectono-thermal Uplift History of Archean Basement Rocks in the Beartooth Mountains: Rates and Dates of a classic Laramide Arch, in completion of a senior thesis (2012).
- \$^**Mary Shultz Early Layer-Parallel Shortening patterns along the Sweetwater Arch-Shirley Mountain Tectonic Zone of the Laramide Foreland: refraction of the regional stress field and development of multiple structural trends, in completion of a senior thesis (2012).
- ** Fern Esperanza Beetle-Moorcroft A terrane wreck? Or just a slip up? A paleomagnetic study of terrane accretion in the western Cordillera
- \$^**Rachel Clark Seismic stratigraphy of the Shatsky Rise, Pacific Ocean.
- **Christine Newville Tectonics of the Sierra Pampeanas Ranges, Argentina.
- ^**Meg Sumner-Moore Potential health hazards of fibrous amphibole minerals from the Wilson Ridge pluton, Arizona, in completion of a senior thesis (2015).
- Robin Chernowski Anisotropy of Magnetic Susceptibility as a recorder of early Layer Parallel Shortening in the Sierra Pampeanas Ranges, Argentina, in completion of a senior thesis (2015).
- Helen Whitty Anisotropy of Magnetic Susceptibility as a recorder of early Layer Parallel Shortening in the Sierra Pampeanas Ranges, Argentina – summer research (thesis 2018).
- Helen Whitty and ** Ankitha Kannad Testing kinematic models of deformation sequence in the bear valley strip mine, east-central Pennsylvania: a fault kinematic and anisotropy of magnetic susceptibility (AMS) analysis
- ** ^ Katie Billings Vertical Axis Rotation And The Kinematic Evolution Of The Pennsylvania Salient: