

PAUL KAPP, Professor

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EDUCATION AND TRAINING:

University of California, Los Angeles	Geology	Ph.D.	2001
University of Arizona	Geology, Geophysics	B.S.	1996
Geophysics Field Camp (SAGE)	Santa Fe, New Mexico		1996
Indiana University	Geology Field Camp		1995

PROFESSIONAL APPOINTMENTS:

Professor	University of Arizona	2014 - Present
Associate Professor	University of Arizona	2008 - 2014
Assistant Professor	University of Arizona	2002 - 2008
Guest Professor	Inst. Tibetan Plateau Res., Chinese Acad. Sci.	2004 - Present

RESEARCH STATEMENT:

My expertise is in continental tectonics, regional geology, and structural-stratigraphic analysis. In the field, I conduct geological mapping and structural-stratigraphic analysis. I study rocks ranging from Precambrian to Quaternary in age and from high-grade gneisses to loess. My analytical research focuses on quantifying timing and rates with geochronology and thermochronology. My research interests include the tectonic evolution of orogenic systems, global tectonic processes, eolian processes, and interplays among tectonics, climate, and landscape evolution.

HONORS AND AWARDS:

- 2011: UA Geosciences Advisory Board's Outstanding Faculty Award
- 2009: Geological Society of America, Fellow
- 2008: Geological Society of America Outstanding Young Scientist Award (Donath Medal)
- 2004: University of Arizona, College of Science Early-Career Teaching Award

PUBLICATIONS:

* = advised or co-advised student or postdoc

- 126. **Kapp, P.**, Pullen, A., Abell, J.T., and Zhang, L., 2025, Wind erosion in northern China: Insights from the western Qaidam fold belt, Loess Plateau, and Hami Basin: **Earth-Science Reviews**, v. 61, 105037, <https://doi.org/10.1016/j.earscirev.2024.105037>.
- 125. Liu, L., Zhang, L., Ding, L., **Kapp, P.**, Ducea, M.N., Pullen, A., Xu, X., Zeng, D., Wang, C., Li, J., Xu, F., Yue, Y., Xie, J., Huang, W., 2024, Origin of the Oligocene-Miocene Sailipu ultrapotassic volcanic rocks in southern Tibet: Melting of Asian mantle pyroxenite triggered by eastward tearing of the subducting Indian continental slab: **GSA Bulletin**, <https://doi.org/10.1130/B37714.1>.
- 124. Li, L., DeCelles, P., **Kapp, P.**, Garzzone, C., Quade, J., and Yanay, N., 2024, Constraining carbonate diagenesis using clumped isotope temperatures and U-Pb dating: A case study and implications for paleoelevation interpretations in western central Tibet: **Geochimica et Cosmochimica Acta**, v. 374, p. 1-14, <https://doi.org/10.1016/j.gca.2024.04.007>.
- 123. Li, L., Quade, J., Garzzone, C., Defliese, W.F., DeCelles, P., and **Kapp, P.**, 2024, Reliability of micritic carbonates in recording well-preserved isotopic composition and implications for paleoelevation estimates in central Tibet: **Geochimica et Cosmochimica Acta**, v. 375, p. 186-200, <https://doi.org/10.1016/j.gca.2024.04.009>.

122. Sundell, K.E., Laskowski, A.K., Howlett, C., **Kapp, P.**, Ducea, M., Chapman, J.B., and Ding, L., 2023, Episodic Late Cretaceous to Neogene crustal thickness variation in southern Tibet: *Terra Nova*, v. 36, p. 45-42, doi:10.1111/ter.12689.
121. Malik, A., Rebaza, A.M., **Kapp, P.**, Li, L. Du, Y., Al Shams, A., and Cooperdock, E.H.G., 2023, Metabasic rocks as important nitrogen carriers to forearc depths: Implications for deep nitrogen cycling: *Geochimica et Cosmochimica Acta*, v. 361, p. 265-275, <https://doi.org/10.1016/j.gca.2023.10.007>.
120. Abell, J.T., Winckler, G., Pullen, A., Kinsley, C.W., **Kapp, P.A.**, Middleton, J.L., Pavia, F.J., McGee, D., Ford, H.L., and Raymo, M.E., 2023, Evaluating the drivers of Quaternary dust fluxes to the western North Pacific: East Asian dustiness and Northern Hemisphere gustiness: *Paleoceanography and Paleoclimatology*, v. 38, e2022PA004571, <https://doi.org/10.1029/2022PA004571>.
119. **Kapp, P.**, Jepson, G., Carrapa, B., Schaen, A.J., He, J.J.Y., and Wang, J.W., 2023, Laramide bulldozing of lithosphere beneath the Arizona transition zone, southwestern United States: *Geology*, v. 51, p. 952-956, <https://doi.org/10.1130/G51194.1>.
118. He, J.J.Y.* and **Kapp, P.**, 2023, Basin record of a Miocene lithosphere drip beneath the Colorado Plateau: *Nature Communications*, v. 14, 4433, <https://doi.org/10.1038/s41467-023-40147-7>.
117. Wang, J.W.*, Gehrels, G., **Kapp, P.**, and Sundell, K., 2023, Evidence for regionally continuous Early Cretaceous sinistral shear zones along the western flank of the Coast Mountains, coastal British Columbia: *Geosphere*, v. 19, no. 1, p. 139-162, <https://doi.org/10.1130/GES02502.1>.
116. Ding, L., **Kapp, P.**, Cai, F., Garzzone, C.N., Xiong, Z., Wang, H., and Wang, C., 2022, Timing and mechanisms of Tibetan Plateau uplift: *Nature Reviews: Earth & Environment*, v. 3, p. 652-667, doi:10.1038/s43017-022-00318-4.
115. Jepson, G., Carrapa, B., George, S.W.M., Reeher, L.J., **Kapp, P.A.**, Davis, G.H., Thomson, S.N., Amadori, C., Clinkscales, C., Jones, S., Gleadow, A.J.W., and Kohn, B.P., 2022, Where did the Arizona-plano go? Protracted thinning via upper- to lower-crustal processes: *Journal of Geophysical Research: Solid Earth*, v. 127, doi:10.1029/2021JB023850.
114. Huang, W., Lippert, P.C., Reiners, P.W., Quade, J., **Kapp, P.**, Ganerød, M., Guo, Z., and van Hinsbergen, D.J.J., 2022, Hydrothermal events in the Linzizong Group: Implications for Paleogene exhumation and paleoaltimetry of the southern Tibetan Plateau: *Earth and Planetary Science Letters*, v. 583, doi:10.1016/j.epsl.2022.117390.
113. Jepson, G., Carrapa, B., Gillespie, J., Feng, R., DeCelles, P.G., **Kapp, P.**, Tabor, C.R., and Zhu, J., 2021, Climate as the great equalizer of continental-scale erosion: *Geophysical Research Letters*, v. 48, doi:10.1029/2021GL095008.
112. Sundell, K.E., Laskowski, A.K., **Kapp, P.A.**, Ducea, M.N., and Chapman, J.B., 2021, Jurassic to Neogene quantitative crustal thickness estimates in southern Tibet: *GSA Today*, v. 31, p. 4-10, doi:10.1130/GSATG461A.1.
111. Clinkscales, C.*, **Kapp, P.**, Thomson, S., Wang, H., Laskowski, A., Orme, D.A., and Pullen, A., 2021, Regional exhumation and tectonic history of the Shanxi Rift and Taihangshan, North China: *Tectonics*, v. 40, doi:10.1029/2020TC006416.
110. Chen, Y.*, Wang, C., **Kapp, P.**, Shen, T., Zhang, P., Zhu, C., and Cao, K., 2020, Episodic exhumation and related tectonic controlling during Mesozoic in the Eastern Tian Shan, Xinjiang, northwestern China: *Tectonophysics*, v. 796, doi:10.1016/j.tecto.2020.228647.
109. Abell, J.T., Rahimi, S.R., Pullen, A., Lebo, Z.J., Zhang, D., **Kapp, P.**, Gloege, L., Ridge, S., Nie, J., and Winckler, G., 2020, A quantitative model-based assessment of stony desert landscape evolution in the Hami Basin, China: Implications for Plio-Pleistocene dust

- production in eastern Asia: **Geophysical Research Letters**, v. 47, doi:10.1029/2020GL090064.
108. Ma, A.*, Hu, X., **Kapp, P.**, Lai, W., Han, Z., and Xue, W., 2020, Mesozoic subduction accretion history in central Tibet constrained from provenance analysis of the Muganggri Subduction Complex in the Bangong-Nujiang suture zone: **Tectonics**, v. 39, doi:10.1029/2020TC006144.
 107. Quade, J., Leary, R., Dettinger, M.P., Orme, D., Krupa, A., DeCelles, P.G., Kano, A., Kato, H., Waldrip, R., Huang, W., and **Kapp, P.**, 2020, Resetting Southern Tibet: The serious challenge of obtaining primary records of Paleoelevation: **Global and Planetary Change**, v. 191, doi:10.1016/j.gloplacha.2020.103194.
 106. Pullen, A., Banaszynski, M.*, **Kapp, P.**, Thomson, S.N., and Cai, F., 2020, A mid-Cretaceous change from fast to slow exhumation of the western Chinese Altai mountains: A climate driven exhumation signal?: **Journal of Asian Earth Sciences**, v. 197, doi:10.1016/j.jseaes.2020.104387.
 105. Clinkscales, C.*, **Kapp, P.**, and Wang, H., 2020, Exhumation history of the north-central Shanxi Rift, North China, revealed by low-temperature thermochronology: **Earth and Planetary Science Letters**, v. 536, doi:10.1016/j.epsl.2020.116146.
 104. Ma, A.*, Hu, X., **Kapp, P.**, BouDagher-Fadel, M., and Lai, W., 2020, Pre-Oxfordian (>163 Ma) ophiolite obduction in Central Tibet: **Geophysical Research Letters**, v. 47, doi:10.1029/2019GL086650.
 103. Worthington, J.R.*, Ratschbacher, L., Stübner, K., Khan, J., Malz, N., Schneider, S., **Kapp, P.**, Chapman, J.B., Goddard, A.S., Brooks, H.L., Lamadrid, H.M., Steele-MacInnis, M., Rutte, D., Joncheere, R., Pfänder, J., Hacker, B.R., Oimahmadov, I., and Gadoev, M., 2020, The Alichur dome, South Pamir, western India-Asia collisional zone: detailing the Neogene Shakh-dara-Alichur syn-collisional gneiss-dome complex and connection to lithospheric processes: **Tectonics**, v. 39, doi:10.1029/2019TC005735.
 102. Abell, J.T., Pullen, A., Lebo, Z.J., **Kapp, P.**, Gloege, L., Metcalf, A.R., Nie, J., and Winckler, G., 2020, A wind-albedo-wind feedback driven by landscape evolution: **Nature Communications**, v. 11, doi:10.1038/s41467-019-13661-w.
 101. Clinkscales, C.*, and **Kapp, P.**, 2019, Structural style and kinematics of the Taihang-Luliangshan fold belt, North China: Implications for the Yanshanian orogeny: **Lithosphere**, v. 11, p. 767-783, doi:10.1130/L1096.1.
 100. **Kapp, P.**, and DeCelles, P.G., 2019, Mesozoic – Cenozoic geological evolution of the Himalayan-Tibetan orogen and working tectonic hypotheses: **American Journal of Science**, v. 319, p. 159-254, doi:10.2475/03.2019.01.
 99. Metcalf, K.*, and **Kapp, P.**, 2019, History of subduction erosion and accretion recorded in the Yarlung Suture Zone, southern Tibet: in Treloar, P.J., and Searle, M.P., eds., Himalayan Tectonics: A Modern Synthesis, **Geological Society of London Special Publication 483**, p. 517-554, doi:10.1144/SP483.12.
 98. DeCelles, P.G., Leary, R.J., and **Kapp, P.**, 2018, Cenozoic basin evolution in the Indus-Yarlung suture zone and High Himalaya: in Ingersoll, R.V., Lawton, T.F., and Graham, S.A., eds., Tectonics, Sedimentary Basins, and Provenance: A Celebration of William R. Dickinson's Career: **Geological Society of America Special Paper 540**, p. 1-34, doi:10.1130/2018.2540(30).
 97. He, J.*, **Kapp, P.**, Chapman, J.B.*, DeCelles, P.G., and Carrapa, B., 2019, Structural setting and detrital zircon U-Pb geochronology of Triassic-Cenozoic strata in the eastern Central Pamir, Tajikistan: in Treloar, P., and Searle, M.P., eds., Himalayan Tectonics: A Modern Synthesis, **Geological Society of London Special Publication 483**, p. 605-630, doi:10.1144/SP483.11.
 96. Ma, A.*, Hu, X., **Kapp, P.**, Han, Z., Lai, W., and BouDagher-Fadel, M., 2018, The disappearance of a Late Jurassic remnant sea in the southern Qiangtang Block

- (Shamuluo Formation, Najiangco area): Implications for the tectonic uplift of central Tibet: **Palaeogeography, Palaeoclimatology, Palaeoecology**, v. 506, p. 30-47, doi:10.1016/j.palaeo.2018.06.005.
95. Pelletier, J.D., **Kapp, P.**, Abell, J.*, Field, J.P., Williams, Z.C., and Dorsey, R., 2018, Controls on yardang development and morphology: 1. Field observations and measurements at Ocotillo Wells, California: **Journal of Geophysical Research: Earth Surface**, v. 123, p. 694-722, doi:10.1002/2017JF004461.
 94. Laskowski, A.K.*, **Kapp, P.**, and Cai, F.*, 2018, Gangdese culmination model: Oligocene-Miocene duplexing along the India-Asia suture zone, Lazi region, southern Tibet: **Geological Society of America Bulletin**, v. 130, p. 1355-1376, doi:10.1130/B31834.1.
 93. Chapman, J.B.*, Scoggin, S.H., **Kapp, P.**, Carrapa, B., Ducea, M.N., Worthington, J.*, Oimahmadov, I., and Gadoev, M., 2018, Mesozoic to Cenozoic magmatic history of the Pamir: **Earth and Planetary Science Letters**, v. 482, p. 181-192, doi:10.1016/j.epsl.2017.10.041.
 92. Chapman, J.B.*, Robinson, A.C., Carrapa, B., Villarreal, D., Worthington, J.*, DeCelles, P.G., **Kapp, P.**, Gadoev, M., Oimahmadov, I., and Gehrels, G., 2018, Cretaceous shortening and exhumation history of the South Pamir terrane: **Lithosphere**, v. 10, p. 494-511, doi:10.1130/L691.1.
 91. Wang, H.-Q.*, Ding, L., **Kapp, P.**, Cai, F.-L., Clinkscales, C.*, Xu, Q., Yue, Y.-H., Li, S., and Fan, S.-Q., 2018, Earliest Cretaceous accretion of Neo-Tethys oceanic subduction along the Yarlung Zangbo Suture Zone, Sangsang area, southern Tibet: **Tectonophysics**, v. 744, p. 373-389, doi:10.1016/j.tecto.2018.07.024.
 90. Wang, B., Zhai, Y., **Kapp, P.**, de Jong, K., Zhong, L., Liu, H., Ma, Y., Gong, H., and Geng, H., 2018, Accretionary tectonics of back-arc oceanic basins in the South Tianshan: Insights from structural, geochronological, and geochemical studies of the Wuwamen ophiolitic mélange: **Geological Society of America Bulletin**, v. 130, p. 284-306, doi:10.1130/B31397.1.
 89. Chapman, J.B.*, and **Kapp, P.**, 2017, Tibetan magmatism database: **Geochemistry, Geophysics, Geosystems**, v. 18, p. 4229-4234, doi:10.1002/2017TC007217.
 88. Pullen, A., **Kapp, P.**, and Chen, N., 2018, Development of stratigraphically controlled, eolian-modified unconsolidated gravel surfaces and yardang fields in the wind-eroded Hami Basin, northwestern China: **GSA Bulletin**, p. 630-648, doi:10.1130/B31734.1.
 87. Hu, C., Chen, N., **Kapp, P.**, Chen, J., Xiao, A., and Zhao, Y., 2017, Yardang geometries in the Qaidam Basin and their controlling factors: **Geomorphology**, v. 299, p. 142-151, doi:10.1016/j.geomorph.2017.09.029.
 86. Metcalf, K.*, and **Kapp, P.**, 2017, The Yarlung suture mélange, Lopu Range, southern Tibet: Provenance of sandstone blocks and transition from oceanic subduction to continental collision: **Gondwana Research**, v. 48, p. 15-33, doi:10.1016/j.gr.2017.03.002.
 85. Huang, W., Lippert, P.C., Jackson, M.J., Dekkers, M.J., Zhang, Y., Li, J., Guo, Z., **Kapp, P.**, and van Hinsbergen, D.J.J., 2017, Remagnetization of the Paleogene carbonates in the Gamba area of southern Tibet: implications for reconstructing the lower plate in the India-Asia collision: **Journal of Geophysical Research: Solid Earth**, v. 122, doi:10.1002/2016JB013662.
 84. Laskowski, A.K.*, **Kapp, P.**, Ding, L., Campbell, C.*, and Liu, X.H., 2017, Tectonic evolution of the Yarlung suture zone, Lopu Range region, southern Tibet: **Tectonics**, v. 36, p. 108-136, doi:10.1002/2016TC004334.
 83. Worthington, J.R.*, **Kapp, P.**, Minaev, V., Chapman, J.B.*, Mazdab, F.K., Ducea, M.N., Oimahmadov, I., and Gadeov, M., 2017, Birth, life, and demise of the Andean syn-collisional Gissar arc: Late Paleozoic tectono-magmatic-metamorphic evolution of the southwestern Tian Shan, Tajikistan: **Tectonics**, v. 36, p. 1861-1912, doi:10.1002/2016TC004285.

82. Chapman, J.B.*, Ducea, M.N., **Kapp, P.**, Gehrels, G.E., and DeCelles, P.G., 2017, Spatial and temporal radiogenic isotopic trends of magmatism in Cordilleran orogens: **Gondwana Research**, v. 48, p. 189-204, doi:10.1016/j.gr.2017.04.019 (invited review).
81. Carrapa, B., bin Hassim, M.F., **Kapp, P.A.**, DeCelles, P.G., Gehrels, G., 2017, Tectonic and erosional history of southern Tibet recorded by detrital chronological signatures along the Yarlung River drainage: **Geological Society of America Bulletin**, v. 192, p. 570-581, doi:10.1130/B31587.1.
80. Laskowski, A.K.*, **Kapp, P.**, Vervoort, J.D., and Ding, L., 2016, High-pressure Tethyan Himalaya rocks along the India-Asia suture zone in southern Tibet: **Lithosphere**, v. 8, p. 574-582, doi:10.1130/L544.1.
79. Wang, C., Ding, L., Zhang, L.-Y.*, **Kapp, P.**, Pullen, A., Yue, Y.-H., 2016, Petrogenesis of Middle-Late Triassic volcanic rocks from the Gangdese belt, southern Lhasa terrane: Implications for early subduction of Neo-Tethyan oceanic lithosphere: **Lithos**, v. 262, p. 320-333, doi:10.1016/j.lithos.2016.07.021.
78. Pepper, M.*, Gehrels, G., Pullen, A., Ibañez-Mejia, M., Ward, K.M., and **Kapp, P.**, 2016, Magmatic history and crustal genesis of western South America: Constraints from U-Pb ages and Hf isotopes of detrital zircons in modern rivers: **Geosphere**, v. 12, doi:10.1130/GES01315.1.
77. Leary, R.*, Orme, D.A.*, Laskowski, A.K.*, DeCelles, P.G., **Kapp, P.**, Carrapa, B., and Dettinger, M., 2016, Along-strike diachroneity in the deposition of the Kailas Formation in central southern Tibet: Implications for Indian slab dynamics: **Geosphere**, v. 12, doi:10.1130/GES01325.1.
76. Licht, A.*, Dupont-Nivet, G., Pullen, A., **Kapp, P.**, Abels, H.A., Lai, Z., Guo, Z., Abell, J., and Giesler, N., 2016, Resilience of the Asian atmospheric circulation shown by Paleogene dust provenance: **Nature Communications**, 7:12309, doi:10.1038/ncomms12390.
75. Licht, A.*, Pullen, A., **Kapp, P.**, Abell, J.*, and Giesler, D., 2016, Eolian cannibalism: reworked loess and fluvial sediment as the main sources of the Chinese Loess Plateau: **Geological Society of America Bulletin**, v. 128, p. 944-956, doi:10.1130/B31375.1.
74. Cai, F.*, Ding, L., Laskowski, A.K.*, **Kapp, P.**, Wang, H., Xu, Q., and Zhang, L., 2016, Late Triassic paleogeographic reconstruction along the Neo-Tethyan Ocean margins, southern Tibet: **Earth and Planetary Science Letters**, v. 435, p. 105-114, doi: 10.1016/j.epsl.2015.12.027.
73. Chen, N., Ni, N., **Kapp, P.**, Chen, J., Member, IEEE, Xiao, A., and Li, H., 2015, Structural analysis of the Hero Range in the Qaidam Basin, northwestern China, using integrated UAV, terrestrial LiDAR, Landsat 8, and 3-D seismic data: **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing**, doi:10.1109/JSTARS.2015.2440171.
72. **Kapp, P.**, Pullen, A., Pelletier, J.D., Russell, J., Goodman, P., and Cai, F., 2015, From dust to dust: Quaternary wind erosion of the Mu Us Desert and Loess Plateau, China: **Geology**, v. 43, p. 835-838, doi:10.1130/G36724.1.
71. Maffione, M., van Hinsbergen, D.J.J., Koornneef, L.M.T., Guilmette, C., Hodges, K., Borneman, N., Huang, W., Ding, L., and **Kapp, P.A.**, 2015, Forearc hyperextension dismembered the south Tibetan ophiolites: **Geology**, v. 43, p. 475-478, doi:10.1130/G36472.1.
70. Huang, W., Dupont-Nivet, G., Lippert, P.C., van Hinsbergen, D.J.J., Dekkers, M.J., Waldrup, R., Ganerød, M., Li, X., Guo, Z., and **Kapp, P.**, 2015, What was the Paleogene latitude of the Lhasa terrane? A reassessment of the geochronology and paleomagnetism of the Linzizong volcanic rocks (Linzhou Basin, Tibet): **Tectonics**, v. 34, p. 594-622.
69. Huang, W., van Hinsbergen, D.J.J., Maffione, M., Orme, D.A., Dupont-Nivet, G., Guilmette, C., Ding, L., Guo, Z., and **Kapp, P.**, 2015, Lower Cretaceous Xigaze ophiolites formed in

- the Gangdese forearc: Evidence from paleomagnetism, sediment provenance, and stratigraphy: **Earth and Planetary Science Letters**, v. 415, p. 142-153.
68. Huang, W., Dupont-Nivet, G., Lippert, P.C., van Hinsbergen, D.J.J., Dekkers, M.J., Guo, Z., Waldrip, R., Li, X., Zhang, X., Liu, D., and **Kapp, P.**, 2015, Can a primary remanence be retrieved from partially remagnetized Eocene volcanic rocks in the Nanmulin Basin (southern Tibet) to date the India-Asia collision?: **Journal of Geophysical Research: Solid Earth**, v. 120, p. 42-66, doi:10.1002/2014JB011599.
 67. Huang, W., van Hinsbergen, D.J.J., Dekkers, M.J., Dupont-Nivet, G., Lippert, P.C., Li, X., Maffione, M., Langereis, C.G., Hu, X., Guo, Z., and **Kapp, P.**, 2014, Paleolatitudes of the Tibetan Himalaya from primary and secondary magnetizations of Jurassic to Lower Cretaceous sedimentary rocks: **Geochemistry, Geophysics, Geosystems**, v. 16, doi:10.1002/2014GC005624.
 66. DeCelles, P.G., Zandt, G., Beck, S.L., Currie, C.A., Ducea, M.N., **Kapp, P.**, Gehrels, G.E., Carrapa, B., Quade, J., and Schoenbohm, L.M., 2015, Cyclical orogenic processes in the Cenozoic central Andes, in DeCelles, P.G., Carrapa, B., Ducea, M., and Kapp, P., eds., Geodynamics of a Cordilleran Orogenic System: The Central Andes of Argentina and Northern Chile: **Geological Society of America Memoir 212**, Boulder, Geological Society of America, doi:10.1130/2015.1212(22).
 65. Zhang, L.-Y., Ducea, M.N., Ding, L., Pullen, A., **Kapp, P.**, and Hoffman, D., 2014, Southern Tibetan Oligocene-Miocene adakites: A record of Indian slab tearing: **Lithos**, v. 210-211, p. 209-223.
 64. Metcalf, K.*, and **Kapp, P.**, 2015, Along-strike variations in crustal seismicity and modern lithospheric structure of the central Andean forearc, in DeCelles, P.G., Carrapa, B., Ducea, M., and Kapp, P., eds., Geodynamics of a Cordilleran Orogenic System: The Central Andes of Argentina and Northern Chile: **Geological Society of America Memoir 212**, Boulder, Geological Society of America, p. 61-78, doi:10.1130/2015.1212(04).
 63. Pullen, A., and **Kapp, P.**, 2014, Mesozoic tectonic history and lithospheric structure of the Qiangtang terrane: Insights from the Qiangtang metamorphic belt, central Tibet, in Nie, J.S., Horton, B.K., and Hoke, G.E. eds., Towards an Improved Understanding of Uplift Mechanisms and the Elevation History of the Tibetan Plateau, **Geological Society of America Special Paper 507**, Boulder, Geological Society of America, p. 71-87, doi:10.1130/2014.2507(04).
 62. Volkmer J.E.*, **Kapp, P.**, Horton, B.K., Gehrels, G.E., Minervini, J.M., and Ding, L., 2014, Northern Lhasa thrust belt of central Tibet: Evidence of Cretaceous – early Cenozoic shortening within a passive roof thrust system?: in Nie, J.S., Horton, B.K., and Hoke, G.D. eds., Towards an Improved Understanding of Uplift Mechanisms and the Elevation History of the Tibetan Plateau, **Geological Society of America Special Paper 507**, Boulder, Geological Society of America, doi:10.1130/2014.2507(03).
 61. Orme, D.A., Carrapa, B., and **Kapp, P.**, 2014, Sedimentology, provenance and geochronology of the upper Cretaceous–lower Eocene western Xigaze forearc basin, southern Tibet: **Basin Research**, doi:10.1111/bre.12080.
 60. DeCelles, P.G., **Kapp, P.**, Gehrels, G.E., and Ding, L., 2014, Paleocene-Eocene foreland basin evolution in the Himalaya of southern Tibet and Nepal: implications for the age of initial India-Asia collision: **Tectonics**, v. 33, p. 824-849, doi:10.1002/2014TC003522.
 59. Carrapa, B., Orme, D.A., DeCelles, P.G., **Kapp, P.**, Cosca, M.A., and Waldrip, R., 2014, Miocene burial and exhumation of the India-Asia collision zone in southern Tibet: Response to slab dynamics and erosion: **Geology**, v. 52, p. 443-446.
 58. Zhang, L.-Y.*, Ding, L., Pullen, A.*, Xu, Q., Liu, D.-L., Cai, F.-L., Yue, Y.-H., Lai, Q.-Z., Shi, R.-D., Ducea, M.N., **Kapp, P.**, and Chapman, A., 2014, Age and geochemistry of

- western Hoh-Xil-Songpan-Ganzi granitoids, northern Tibet: Implications for the Mesozoic closure of the Paleo-Tethys ocean: **Lithos**, v. 190-191, p. 328-348.
57. Sundell, K.E., Taylor, M.H., Styron, R.H., Stockli, D.F., **Kapp, P.**, Hager, C., Liu, D., and Ding, L., 2013, Evidence for constriction and Pliocene acceleration of east-west extension in the North Lunggar rift region of west central Tibet: **Tectonics**, v. 32, p. 1454-1479, doi:10.1002/tect.20086.
 56. Pearson, D.M.*, **Kapp, P.**, DeCelles, P.G., Reiners, P.W., Gehrels, G.E., Ducea, M.N., and Pullen, A., 2013, Influence of pre-Andean crustal structure on Cenozoic thrust belt kinematics and shortening magnitude: Northwestern Argentina: **Geosphere**, v. 9, p. 1-17, doi:10.1130/GES00923.1.
 55. Guynn, J.*, Tropper, P., **Kapp, P.**, and Gehrels, G.E., 2013, Metamorphism of the Amdo metamorphic complex: Tibet: implications for the Jurassic tectonic evolution of the Bangong suture zone: **Journal of Metamorphic Geology**, v. 31, p. 705-727.
 54. Rohrmann, A.*, Heermance, R., **Kapp, P.**, and Cai, F., 2013, Wind as the primary driver of erosion in the Qaidam Basin, China: **Earth and Planetary Science Letters**, v. 374, p. 1-10.
 53. Ding, L., Yang, D., Cai, F.L., Pullen, A.*, **Kapp, P.**, Gehrels, G.E., Zhang, L.Y., Zhang, Q.H., Lai, Q.Z., Yue, Y.H., and Shi, R.D., 2013, Provenance analysis of the Mesozoic Hoh-Xil-Songpan-Ganzi turbidites in northern Tibet: Implications for the tectonic evolution of the eastern Paleo-Tethys Ocean: **Tectonics**, doi:10.1002/tect.20013.
 52. Heermance, R.V., Pullen, A.*, **Kapp, P.**, Ding, L., Garzione, C., and Song, P., 2013, Climatic and tectonic controls on sedimentation and erosion during the Plio-Quaternary in the Qaidam Basin of China: **Geological Society of America Bulletin**, v. 125, p. 833-856.
 51. Woodruff Jr., W.H., Horton, B.K., **Kapp, P.**, and Stockli, D.F., 2013, Late Cenozoic evolution of the Lunggar extensional basin, Tibet: Implications for basin growth and exhumation in hinterland plateaus: **Geological Society of America Bulletin**, v. 125, 343-358, doi:10.1130/B30664.1.
 50. Pearson, D.M.*, **Kapp, P.**, Reiners, P.W., Gehrels, G.E., Ducea, M.N., Pullen, A.*, Otamendi, J.E., and Alonso, R.N., 2012, Major Miocene exhumation by fault-propagation folding within a metamorphosed, early Paleozoic thrust belt: Northwestern Argentina: **Tectonics**, v. 31, TC4023, doi:10.1029/2011TC003043.
 49. Rohrmann, A.*, **Kapp, P.**, Carrapa, B., Reiners, P.W., Guynn, J.*, Ding, L., and Heizler, M., 2012 Thermochronologic evidence for plateau formation in central Tibet by 45 Ma: **Geology**, v. 40, p. 187-190, doi:10.1130/G32530.1.
 48. Guynn, J.*, **Kapp, P.**, Gehrels, G.E., and Ding, L., 2012, U-Pb geochronology of basement rocks in central Tibet and paleogeographic implications: **Journal of Asian Earth Sciences**, v. 43, p. 23-50, doi:10.1016/j.jseaes.2011.09.003.
 47. Gehrels, G., **Kapp, P.**, DeCelles, P., Pullen*, A, Blakey, R., Weislogel, A., Ding, L., Guynn, J., Martin, A., McQuarrie, N., and Yin, A., 2011: Detrital zircon geochronology of pre-Tertiary strata in the Tibetan-Himalayan orogen: **Tectonics**, v. 30, TC5016, doi:10.1029/2011TC002868.
 46. van Hinsbergen, D.J., **Kapp, P.**, Dupont-Nivet, G., Lippert, P.C.*, DeCelles, P.G., and Torsvik, T.H., 2011, Restoration of Cenozoic deformation in Asia and the size of Greater India: **Tectonics**, v. 30, TC5003, doi: 10.1029/2011TC002908.
 45. Pullen, A.*, **Kapp, P.**, McCallister, A.T.*, Chang, H., Gehrels, G.E., Garzione, C.N., Heermance, R.V., and Ding, L., 2011. Qaidam Basin and northern Tibetan Plateau as dust sources for the Chinese Loess Plateau and paleoclimatic implications: **Geology**, v. 39, p. 1031-1034, doi:10.1130/G32296.1.
 44. Taylor, M.H., **Kapp, P.A.**, and Horton, B.K., 2012, Basin response to active extension and strike-slip deformation in the hinterland of the Tibetan Plateau, in Busby, C., and Azor,

- A., eds., *Tectonics of Sedimentary Basins: Recent Advances*, First Edition, Blackwell Publishing Ltd., p. 445-460, doi:10.1002/9781444347166.ch22.
43. **Kapp, P.**, Pelletier, J.D., Rohrmann, A.*, Heermance, R., Russell, J., and Ding, L., 2011, Wind erosion in the Qaidam Basin, central Asia: Implications for tectonics, paleoclimate, and the source of the Loess Plateau: **GSA Today**, v. 21, p. 4-10, doi:10.1130/GSATG99A.1.
 42. DeCelles, P.G., **Kapp, P.**, Quade, J., and Gehrels, G.E., 2011, Oligocene-Miocene Kailas Basin, southwestern Tibet: Record of post-collisional upper-plate extension in the Indus-Yarlung suture zone: **Geological Society of America Bulletin**, v. 123, p. 1337-1362, doi:10.1130/B30258.1.
 41. Pullen, A.*, **Kapp, P.**, DeCelles, P.G., Gehrels, G.E., and Ding, L., 2011, Cenozoic anatexis and exhumation of Tethyan Sequence rocks in the Xiao Gurla Range, southwest Tibet: **Tectonophysics**, v. 501, p. 28-40, doi:10.1016/j.tecto.2011.01.008.
 40. Pullen, A.*, **Kapp, P.**, Gehrels, G.E., Ding, L., and Zhang, Q., 2011, Metamorphic rocks in central Tibet: Lateral variations and implications for crustal structure: **Geological Society of America Bulletin**, v. 123, p. 585-600, doi:10.1130/B30154.1.
 39. Dupont-Nivet, G., Lippert, P.C., van Hinsbergen, D.J.J., Meijers, M.J.M., and **Kapp, P.**, 2010, Paleolatitude and age of the Indo-Asian collision: palaeomagnetic constraints: **Geophysical Journal International**, v. 182, p. 1189-1198, doi:10.1111/j.1365-246X.2010.04697.x.
 38. Arca, M.S.*, **Kapp, P.**, and Johnson, R.A., 2010, Cenozoic crustal extension in southeastern Arizona and implications for models of core-complex development: **Tectonophysics**, v. 488, p. 174-190, doi:10.1016/j.tecto.2010.03.021.
 37. Saylor, J., DeCelles, P.G., Gehrels, G., Murphy, M., Zhang, R., and **Kapp, P.**, 2010, Basin formation in the High Himalaya by arc-parallel extension and tectonic damming: Zhada basin, southwestern Tibet: **Tectonics**, V. 29, p. TC1004, doi:10.1029/2008TC002390.
 36. **Kapp, P.**, Manning, C.E., and Tropper, P., 2009, Phase-equilibrium constraints on titanite and rutile activities in mafic epidote amphibolites and geobarometry using titanite-rutile equilibria: **Journal of Metamorphic Geology**, v. 27, p. 509-521, doi:10.1111/j.1525-1314.2009.00836.x.
 35. DeCelles, P.G., Ducea, M., **Kapp, P.**, and Zandt, G., 2009, Cyclicity in Cordilleran orogenic systems: **Nature Geoscience**, v. 2, p. 251-257, doi:10.1038/NGEO469.
 34. Leier, A., Quade, J., DeCelles, P., and **Kapp, P.**, 2009, Stable isotopic results from paleosol carbonate in south Asia: Paleoenvironmental reconstructions and selective alteration: **Earth and Planetary Science Letters**, v. 279, p. 242-254, doi:10.1016/j.epsl.2008.12.044.
 33. Saylor, J.E., Quade, J., Dettman, D., DeCelles, P.G., **Kapp, P.A.**, and Ding, L., 2009, The Late Miocene through present paleoelevation history of southwestern Tibet: **American Journal of Science**, v. 309, p. 1-42, doi:10.2475/01.2009.01.
 32. Pullen, A.*, **Kapp, P.**, Gehrels, G.E., DeCelles, P.G., Brown, E., Fabijanic, J.M., and Ding, L., 2008, Gangdese retroarc thrust belt and foreland basin deposits in the Damxung area, southern Tibet: **Journal of Asian Earth Sciences**, v. 33, p. 323-336, doi:10.1016/j.jseaes.2008.01.005.
 31. Pullen, A.*, **Kapp, P.**, Gehrels, G.E., Vervoort, J.D., and Ding, L., 2008, Triassic continental subduction in central Tibet and Mediterranean-style closure of the Paleo-Tethys Ocean: **Geology**, v. 36, p. 351-354, doi:10.1130/G24435A.1.
 30. **Kapp, P.**, Taylor, M., Stockli, D., and Ding, L., 2008, Development of active low-angle normal fault systems during orogenic collapse: Insight from Tibet: **Geology**, v. 36, p. 7-10, doi:10.1130/G24054A.1.
 29. Leier, A.L., DeCelles, P.G., **Kapp, P.**, and Gehrels, G.E., 2007, Lower Cretaceous strata in the Lhasa terrane, Tibet, with implications for understanding the early tectonic history of

- the Tibetan plateau: **Journal of Sedimentary Research**, v. 77, 809-825, doi:10.2110/jsr.2007.078.
28. Volkmer, J.E.*, **Kapp, P.**, Guynn, J.H.*, and Lai, Q., 2007, Cretaceous – Tertiary structural evolution of the north central Lhasa terrane, Tibet: **Tectonics**, v. 26, TC6007, doi:10.1029/2005TC001832.
 27. Leier, A.L.*, **Kapp, P.**, Gehrels, G.E., and DeCelles, P.G., 2007, Detrital zircon geochronology of Carboniferous-Cretaceous strata in the Lhasa terrane, Southern Tibet: **Basin Research**, v. 19, p. 361-378.
 26. **Kapp, P.**, DeCelles, P.G., Gehrels, G.E., Heizler, M., and Ding, L., 2007, Geological records of the Cretaceous Lhasa-Qiangtang and Indo-Asian collisions in the Nima basin area, central Tibet, **Geological Society of America Bulletin**, v. 119, p. 917-932, doi:10.1130/B26033.
 25. He, S.*, **Kapp, P.**, DeCelles, P.G., Gehrels, G.E., Heizler, M., and Ding, L., 2007, Cretaceous – Tertiary geology of the Gangdese Arc in the Linzhou area, southern Tibet: **Tectonophysics**, v. 433, p. 15-37.
 24. **Kapp, P.**, DeCelles, P.G., Leier, A.L., Fabijanic, J.M., He, S., Pullen, A., Gehrels, G.E., and Ding, L., 2007, The Gangdese retroarc thrust belt revealed: **GSA Today**, v. 17, no. 7, p. 4-9, doi: 10.1130/GSAT01707A.1.
 23. DeCelles, P.G., **Kapp, P.**, Ding, L., and Gehrels, G.E., 2007, Late Cretaceous to mid-Tertiary basin evolution in the central Tibetan plateau: Changing environments in response to tectonic partitioning, aridification, and regional elevation gain, **Geological Society of America Bulletin**, v. 119, p. 654-680, doi:10.1130/B26074.1.
 22. DeCelles, P.G., Quade, J., **Kapp, P.**, Fan, M., Dettman, D.L., and Ding, L., 2007, High and dry in central Tibet during the Late Oligocene: **Earth and Planetary Science Letters**, v. 253, p. 389-401.
 21. Ding, L., **Kapp, P.**, Yue, Y., and Lai, Q., 2007, Postcollisional calc-alkaline lavas and xenoliths from the southern Qiangtang terrane, central Tibet, **Earth and Planetary Science Letters**, v. 254, p. 28-38.
 20. Leier, A.L., DeCelles, P.G., **Kapp, P.**, and Ding, L., 2007, The Takena Formation of the Lhasa terrane, southern Tibet: The record of a Late Cretaceous retroarc foreland basin: **Geological Society of America Bulletin**, v. 119, p. 31-48, doi:10.1130/B25974.1.
 19. Guynn, J.H.*, **Kapp, P.**, Pullen, A., Heizler, M., Gehrels, G.E., and Ding, L., 2006, Tibetan basement rocks near Amdo reveal "missing" Mesozoic tectonism along the Bangong suture, central Tibet: **Geology**, v. 34, p. 505-508, doi:10.1139/G22453.1.
 18. **Kapp, P.**, Yin, A., Harrison, T.M., and Ding, L., 2005, Cretaceous-Tertiary shortening, basin development, and volcanism in central Tibet: **Geological Society of America Bulletin**, v. 117, p. 865-878, doi:10.1130/G22453.1.
 17. Kapp, J.L.D., Harrison, T.M., **Kapp, P.**, Grove, M., Lovera, O.M., and Ding, L., 2005, The Nyainqentanglha Shan: A window into the tectonic, thermal and geochemical evolution of the Lhasa block, southern Tibet: **Journal of Geophysical Research**, v. 110, B08413, doi:10.1029/2004JB003330.
 16. Ding, L., **Kapp, P.**, and Wan, X., 2005, Paleocene–Eocene record of ophiolite obduction and initial India-Asia collision, south-central Tibet: **Tectonics**, v. 24, TC3001, doi:10.1029/2004TC001729.
 15. **Kapp, P.**, and Guynn, J.H.*, 2004, Indian Punch Rifts Tibet: **Geology**, v. 32, p. 993-996, doi:10.1130/G20689.1.
 14. **Kapp, P.**, Murphy, M.A., Yin, A., Harrison, T.M., Ding, L., and Guo, J., 2003, Mesozoic and Cenozoic tectonic evolution of the Shiquanhe area of western Tibet: **Tectonics**, v. 22, 1029, doi:10.1029/2001TC001332.

13. **Kapp, P.**, Yin, A., Manning, C.E., Harrison, T.M., Taylor, M.H., and Ding, L., 2003, Tectonic evolution of the early Mesozoic blueschist-bearing Qiangtang metamorphic belt, central Tibet: **Tectonics**, v. 22, 1043, doi:10.1029/2002TC001383.
12. Taylor, M., Yin, A., Ryerson, F.J., **Kapp, P.**, and Ding, L., 2003, Conjugate strike-slip faulting along the Bangong-Nujiang suture zone accommodates coeval east-west extension and north-south shortening in the interior of the Tibetan Plateau: **Tectonics**, v. 22, 1044, doi:10.1029/2002TC001361.
11. Ding, L., **Kapp, P.**, Zhong, D., and Deng, W., 2003, Cenozoic volcanism in Tibet: evidence for a transition from oceanic to continental subduction: **Journal of Petrology**, v.44, p. 1833-1865.
10. Deng, X.G., Ding, L., Liu, X.H., Yin, A., **Kapp, P.A.**, Murphy, M.A., and Manning, C.E., 2002, Geochemical characteristics of the blueschists and its tectonic significance in the central Qiangtang area, Tibet: **Acta Petrologica Sinica**, v. 18, p. 517-525.
9. Murphy, M.A., Yin, A., **Kapp, P.**, Harrison, T.M., Manning, C.E., Ryerson, F.J., Ding, L., and Guo, J., 2002, Structural evolution of the Gurla Mandhata detachment system, southwest Tibet: Implications for the eastward extent of the Karakoram fault system: **Geological Society of America Bulletin**, v. 114, p. 428-447.
8. Ding, L., Zhong, D., Yin, A., **Kapp, P.A.**, and Harrison, T.M., 2001, Cenozoic structural and metamorphic evolution of the eastern Himalayan syntaxis (Namche Barwa): **Earth and Planetary Science Letters**, v. 192, p. 423-438.
7. **Kapp, P.A.**, Yin, A., Manning, C.E., Murphy, M., Harrison, T.M., Spurlin, M., Ding, L., Deng, X.-G., and Wu, C.-M., 2000, Blueschist-bearing metamorphic core complexes in the Qiangtang block reveal deep crustal structure of northern Tibet: **Geology**, v. 28, p. 19-22.
6. Murphy, M. A., Yin, A., **Kapp, P.A.**, Harrison, T.M., Ding Lin, and Guo, J., 2000, Southward propagation of the Karakoram fault system, southwest Tibet: timing and magnitude of slip: **Geology**, v. 28, p. 451-454.
5. Yin, A., **Kapp, P.A.**, Murphy, M.A., Harrison, T.M., Grove, M., Ding, L., Deng, X., and Wu, C., 1999, Significant late Neogene east-west extension in northern Tibet: **Geology**, v. 27, p. 787-790.
4. Axen, G.J., Fletcher, J.M., Cowgill, E., Murphy, M., **Kapp, P.**, MacMillan, I., and Ramos-Velazquez, E., 1999, Range-front fault scarps of the Sierra El Mayor, Baja California: Formed above an active low-angle normal fault?: **Geology**, v. 27, p. 247-250.
3. **Kapp, P.A.**, and Gehrels, G.E., 1998, Detrital zircon constraints on the tectonic evolution of the Gravina belt, southeastern Alaska: **Canadian Journal of Earth Sciences**, v. 35, p. 253-268.
2. Gehrels, G.E., and **Kapp, P.A.**, 1998, Detrital zircon geochronology and regional correlation of metasedimentary rocks in the Coast Mountains, southeastern Alaska: **Canadian Journal of Earth Sciences**, v. 35, p. 269-279.
1. DeCelles, P.G., Gehrels, G.E., Quade, J., Ojha, T.P., **Kapp, P.A.**, and Upreti, B.N., 1998, Neogene foreland basin deposits, erosional unroofing, and the kinematic history of the Himalayan fold-thrust belt, western Nepal: **Geological Society of America Bulletin**, v. 110, p. 2-21.

Replies

- Huang, W., Garzanti, E., Moore, T.C., **Kapp, P.**, DeCelles, P.G., and Niu, S., 2024, Continuity of the Sangdanlin Paleocene section and rejection of a large Greater India in the Early Cretaceous: **PNAS**, v. 121, e2402456121, doi:10.1073/pnas/2402456121.
- Huang, W., Lippert, P.C., Reiners, P.W., Quade, J., **Kapp, P.**, Ganerød, M., Guo, Z., and van Hinsbergen, D.J.J., 2023, Reply to comment by Zhao et al. on “Hydrothermal events in

- the Linzizong Group: Implications for Paleogene exhumation and paleoaltimetry of the southern Tibetan Plateau": ***Earth and Planetary Science Letters***, v. 603, 117973, doi:10.1016/j.epsl.2022.117973.
- Huang, W., Lippert, P.C., Jackson, M.J., Dekkers, M.J., Zhang, Y., Li, J., Guo, Z., **Kapp, P.**, and van Hinsbergen, D.J.J., 2017, Reply to comment by Z. Yi et al. on "Remagnetization of the Paleogene Tibetan Himalayan carbonate rocks in the Gamba area: Implications for reconstructing the lower plate in the India-Asia collision": ***Journal of Geophysical Research: Solid Earth***, doi:10.1002/2017JB014353.
- Zhang, L.-Y., Ding, L., Pullen, A., and **Kapp, P.**, 2015, Reply to comment by W. Liu and B. Xia on "Age and geochemistry of western Hoh-Xil-Songpan-Ganzi granitoids, northern Tibet: Implications for the Mesozoic closure of the Paleo-Tethys ocean": ***Lithos***, v. 212-215, p. 457-461.
- van Hinsbergen, D.J.J., Lippert, P.C., Dupont-Nivet, G., **Kapp, P.**, DeCelles, P.G., and Torsvik, T.H., 2012, Reply to comment by Ali and Aitchison on "Restoration of Cenozoic deformation in Asia, and the size of Greater India": ***Tectonics***, v. 31, TC4007, doi:10.1029/2012TC003144.
- Kapp, P.**, 2001, Blueschist-bearing metamorphic core complexes in the Qiangtang block reveal deep crustal structure of northern Tibet, **Reply: *Geology***, v. 29, p. 91.
- Kapp, P.**, Manning, C.E., and Yin, A., 2001: Blueschist-bearing metamorphic core complexes in the Qiangtang block reveal deep crustal structure of northern Tibet, **Reply: *Geology***, v. 29, p. 664.

GRANTS AND CONTRACTS (Since 2016):

Active

- 2021-2024 EAR-2048656 Lithospheric dripping in central Tibet: Underappreciated factor in orogenic plateau development? (PI: Kapp, Co-PI: DeCelles), NSF Tectonics, \$443,185.
- 2022-2025 EAR-2127229 Collaborative Research: Do subduction-complex metamorphic rocks record the thermal evolution of a subduction zone or periods of anomalous tectonic activity? Baja California (PI, Kapp), NSF Tectonics, \$305,251.

Completed

- 2011-2016 EAR-1008527 Collaborative Research: The suturing process: Insight from the India-Asia collision zone, (Kapp PI; co-PIs: Carrapa, DeCelles, Ducea, Gehrels, Quade, Reiners), NSF Continental Dynamics, \$1,931,106 (UA portion).
- 2014-2018 EAR-1419748 Collaborative Research: Did the Pamir Gneiss Domes and Salient form by Northward Underthrusting of India or Southward Subduction and Rollback of Asia?, (Kapp PI, co-PI: Carrapa), NSF Tectonics, \$210,999 (UA portion).
- 2013-2019 EAR-1323148 Wind over rock: Quantifying the feedbacks among wind flow, bedrock erosion, and tectonic uplift, (Pelletier PI, co-PI: Kapp), NSF Geomorphology and Land Use Dynamics and NSF Tectonics, \$328,644.
- 2015-2022 NSF OISE-1545859 PIRE: DUST stimulated draw-down of atmospheric CO₂ as a trigger for Northern Hemisphere Glaciation (PI: Kapp), \$547,987 (UA portion).
- 2018-2022 EAR-1818509 Jura-Cretaceous sinistral displacement of terranes along the Northern Cordilleran margin (PI: Gehrels, Co-PI: Kapp), \$237,138.

GRADUATE DEGREES AWARDED: 9 MS, 11 PhD.

Christopher Clinkscales (PhD, now consulting geologist)

Jerome Guynn (PhD, now at ExxonMobil)

John He (MS, PhD 2024, now Asst. Prof. at UCLA)

Shundong He (MS, now at Chevron)

Andrew Laskowski (PhD 2016, now Assoc. Prof. at Montana State U)

Kathryn Metcalf (MS & PhD, now Asst. Prof. at CSU Fullerton)
David Pearson (PhD, now Assoc. Prof at U. Idaho)
Alex Pullen (MS & PhD, now Assoc. Prof. at Clemson U)
Alexander Rohrmann (MS, 2009, now Research Scientist at Freie Universitat Berlin)
Abijah Simon (PhD, 2025, UCLA, after initial advising by An Yin '23)
Kelly Umlauf (MS, now at ExxonMobil)
John Volkmer (MS & PhD, now Associate Support Engineer at Acquia)
Ross Waldrip (MS, now instructor at Pima Community College)
Jordan Wang (MS, 2021, PhD, 2025, now Postdoc at UCLA)
James Worthington (PhD, now Postdoc at UC San Diego)

POSTDOCS ADVISED: Fulong Cai (2015; now professor at ITPR), Peter Lippert (2011-2013; now Assoc. Prof. at U. Utah), Houqi Wang (2016; now professor at ITPR), Liyun Zhang (2015, now professor at ITPR)

VISITING PROFESSORS HOSTED: Ninghua Chen (Zhejiang U, China, 2015), Zhang Bo (Peking U. 2016-2017), Kai Cao (CUG, Wuhan, 2017), Zhihui Cai (Inst. Geology, CAGS, 2019)

VISITING STUDENTS HOSTED: Linglin Zhong (2016-2017 from Nanjing U.), Anlin Ma (August, 2017 and 2018-2019 from Nanjing U.), Yue Chen (2019 from CUG, Wuhan)

CURRENT ADVISEES: Luke Basler (co-advisor with Barbara Carrapa as primary advisor); Emma Boeman (co-advisor with Barbara Carrapa as primary advisor); Will McCraine (co-advisor with Jonny Wu as primary advisor)

COURSES TAUGHT: Structural Geology; Physical Geology; Regional Structural Geology; Regional Tectonics; Geochronology & Thermochronology; Summer geology field camp; various seminars in tectonics.

SERVICE/OUTREACH:

2024-2025: Pursuing the possibility of developing a B.S. dual degree program with China University of Geosciences Beijing (together with Carmie Garzione), which would bring their students to our department for the last 2 years of their degree.
2024: Co-organizer of special session at GSA Connects, Anaheim
2024: Community workshop organizing committee member: "Miocene Climate Workshop: Exploring New Directions in Miocene Earth System Connections" April 24-26, 2024, Tucson, AZ.
2023: Proposed and co-developed a new B.S. degree in Planetary Geoscience at the U. Arizona, offered jointly by the departments of Geosciences and Planetary Sciences.
2021 – : Editorial Board, *Fundamental Research*
2019 – 2021: Editorial Board, *Geology*
2019: Lead Session Organizer (Structural Geology & Tectonics), GSA National Meeting + Session convener
2009 – 2015: Associate Editor, *Tectonics*
2002 – Present: Co-supervisor for undergraduate geology club
2002 – Present: Research advisor for undergraduate students (ranging from 2-6/year). Primary advisor to 7 students (5 Ph.D. and 2 undergraduate) who now hold tenured or tenure-track faculty positions in geoscience.
Public Outreach: (1) Tibet's Rise to the roof of the world, Arizona Daily Star, http://azstarnet.com/news/science/tibet-s-rise-to-roof-of-the-world/article_db8764ed-b8fd-5a20-b80f-42fa81193723.html; (2) Kapp and Gynn (2004, *Geology*) and Kapp et al. (2011,

GSA Today): highlighted in dozens of media releases (including US News & World Report and NBC News) and KUAT public radio interview; 3) Radio Interview: Robyn Williams (Australia ABC); Kapp et al. (2015; *Geology*) – Science Daily, Nature World News.

PROFESSIONAL AFFILIATIONS:

American Geophysical Union, Arizona Geological Society, Geological Society of America, National Association of Geoscience Teachers