

## **Andrew V. Zuza, Ph.D.**

Associate Professor  
Nevada Bureau of Mines and Geology  
Nevada Geosciences  
University of Nevada, Reno  
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### **EDUCATION**

- Ph.D. University of California, Los Angeles** 2016  
Geology  
Dissertation: “Tectonic Evolution of the Northeastern Tibetan Plateau”  
Committee: An Yin, Craig Manning, T. Mark Harrison, and Yongwei Sheng
- B.S. Cornell University, Ithaca, NY** 2011  
Science of Earth Systems - Geologic Sciences,  
*magna cum laude* with Distinction in Research  
Honors Thesis: “Late Cenozoic Volcanism in the Hvsgl Rift Basin: Source, Genesis,  
and Evolution of Intraplate Volcanism in Mongolia”  
Adviser: Christopher Andronicos

**Research specialties:** Structural geology, continental deformation, geologic mapping, regional tectonics with emphasis on Asia and the North American Cordillera, microstructural analysis, geochronology, thermochronology, and analog modeling.

### **PROFESSIONAL APPOINTMENTS**

- 2022-present Associate Professor, Nevada Bureau of Mines and Geology, University of Nevada, Reno
- 2016-2022 Assistant Professor, Nevada Bureau of Mines and Geology, University of Nevada, Reno
- 2016 Instructor, Black Hills Natural Science Field Station, South Dakota School of Mines and Technology
- 2011-2016 Research/Teaching Assistant, University of California, Los Angeles

### **TEACHING ACTIVITIES**

- GEOL 701B: Crustal process: from structure to its dynamics (UNR) – 2023
- GEOL 451: Summer Field Camp Director (UNR) – 2018, 2019, 2021, 2022, 2023
- GEOL 701A: Advanced Geology Seminar (UNR) – 2020, 2022
- GEOL 731: Advanced Structural Geology (UNR) – 2021
- GEOL 451: Online Summer Field Camp Director (UNR) – 2020
- GEOL 701M: Advanced Geology Seminar (UNR) – 2020
- GEOL 701G: Advanced Structural Geology (UNR) – 2019
- GEOL 701Z: Solid-Earth Seminar (UNR) – 2017, 2018, 2019
- GEOL 451: Summer Field Camp (UNR) – Summer 2017
- GEOL 260: Introductory Field Geology (UNR) – Spring 2017
- GEOL 410: Field geology (SDSMT) – Summer 2016
- EPS 121: Summer field camp (UCLA; TA) – Summer 2012, 2014, and 2015

EPS 16: Major Events in the History of Life (UCLA; TA) – Winter 2014 and 2015  
EPS 112: Structural Geology (UCLA; TA) – Fall 2013, Spring 2013, and Fall 2014  
ESS 13: Natural Disasters (UCLA; Grader) – Winter 2012  
EAS 3050: Climate Dynamics (Cornell; Grader) – Fall 2010  
Naturalist Outreach Practicum: Local fossils and geology (Cornell; Lecturer) – 2009

## RESEARCH GRANTS

### *Major funding submitted through the University*

- 2022 USGS Nevada STATEMAP: “Nevada 2022 STATEMAP Proposal – Geologic Mapping in the Ruby Mountains-East Humboldt Range area: east half of 1:100,000 scale geologic map compilation of the East Humboldt-Wood Hills-Pequop area.” **Zuza (PI)**, Dee (co-PI), and Vlcan (co-PI), \$122,285 (09/15/22-09/14/23).
- 2022 NSF Tectonics: “Collaborative Research: Collaborative Research: Resolving conflicting thermobarometry and stratigraphy in the Tethyan Himalaya: is non-lithostatic pressure during orogenesis preserved at crustal scales?” **Zuza (PI)**, Haproff (co-PI), and Guevara (co-PI), \$574,221 total (\$253,617 to Zuza) (08/01/22-07/31/25).
- 2022 USGS EDMAP: “How does it end?: Mapping the termination of the Garlock fault in the Avawatz Mountains, CA.” **Zuza (PI)**, \$34,017 (07/15/22-07/14/23).
- 2021 USGS EDMAP: “Jurassic deformation in the Cordillera hinterland: geologic mapping of the southern Pequop Mountains, NV.” **Zuza (PI)**, \$23,827.62 (09/15/21-09/14/22).
- 2021 USGS Nevada STATEMAP: “Nevada 2021 STATEMAP Proposal – Geologic Mapping in the Ruby Mountains-East Humboldt Range area: west half of 1:100,000 scale geologic map compilation of the East Humboldt-Wood Hills-Pequop area.” **Zuza (PI)**, Dee (co-PI), and Vlcan (co-PI), \$77,369 (09/15/21-09/14/22).
- 2021 USGS Nevada STATEMAP: “Nevada 2021 STATEMAP Proposal – Geologic Mapping in the Reno-Carson City Urban Area: Bedell Flat, Spanish Springs Peak, Como, and Parran 7.5' quadrangles.” Dee (PI), Faulds (co-PI), Koehler (co-PI), **Zuza (co-PI)**, Vlcan (co-PI), and Micander (co-PI), \$188,895 (09/15/21-09/14/22).
- 2020 USGS Nevada STATEMAP: “Nevada 2020 STATEMAP Proposal – Geologic Mapping in the Ruby Mountains-East Humboldt Range area: south half of the Tent Mountain, Soldier Peak and Silver Zone Pass 7.5' quadrangles.” **Zuza (PI)**, Dee (co-PI), Vlcan (co-PI), and Seelye (co-PI), \$76,430 (09/15/20-12/16/21).
- 2019 USGS Earth MRI: “Geologic mapping in the Mountain Pass REE focus area.” Dee (PI), **Zuza (co-PI)**, \$100,000 (09/16/2019-09/15/21).
- 2019 USGS Nevada STATEMAP: “Geologic Mapping in the Ruby Mountain-East Humboldt Range area: north half of Tent Mountain, and Secret Valley 7.5' Quadrangles.” **Zuza (PI)**, Dee (co-PI), Henry (co-PI), Vlcan (co-PI), and Seelye (co-PI), \$52,623 (09/13/29-03/31/21).
- 2019 NSF Tectonics: “Collaborative Research: How does it end? Exploring thrust terminations of an intra-continental strike-slip fault, north Tibet.” **Zuza (PI)**, Haproff (co-PI), and Keen-Zeebert (co-PI), \$330,413 total (\$242,337 to Zuza) (07/01/19-06/30/22).
- 2018 NSF Tectonics: “Using structural fabrics and thermochronology to document extensional footwall rotation--Insights from the tilted Miocene Searchlight pluton, NV.” **Zuza (PI)** and Cao (co-PI), \$186,406 (8/1/18-7/31/21).

- 2018 USGS National Earthquake Hazards Reduction Program (NEHRP): “Investigating unrecognized earthquake faults in the Carson Domain, Walker Lane.” **Zuza (PI)**, \$40,499 (9/1/18-8/30/19).
- 2018 USGS EDMAP: “Reconstructing the Last Chance thrust system, eastern CA: Implications for the Paleozoic evolution of the western margin of North America.” **Zuza (PI)**, \$17,350 (04/17/18-04/16/19).
- 2018 USGS Nevada STATEMAP: “Nevada 2018 STATEMAP Proposal – south half of Independence Valley NW 7.5” Quadrangle.” **Zuza (PI)**, Ressel (co-PI), Henry (co-PI), Dee (co-PI), Vlcan (co-PI), and Seelye (co-PI), \$36,925 (07/2/18-07/01/19).
- 2017 USGS Nevada STATEMAP: “Nevada 2018 STATEMAP Proposal –Independence Valley NE 7.5” Quadrangle.” **Zuza (PI)**, Henry (co-PI), Ressel (co-PI), Vlcan (co-PI), and Seelyre (co-PI), \$54,766 (06/01/17-09/24/18 via no-cost extension).
- 2017 VPRI New Scholarly Endeavor Grant: “What Can a Tilted Pluton Tell Us about Basin and Range Extension?” **Zuza (PI)** and Cao (co-PI), \$2,500 (07/19/17-07/18/18).
- 2017 Lawrence Berkeley National Laboratory subcontract from DOE: “Structural Mapping around Wells, NV, and Implications for Geothermal Exploration.” Subcontracted to **Zuza**, \$9,778.02 (04/1/17-12/31/17).

*Minor funding submitted with students*

- 2023 Geological Society of America: “How deep were the Tethyan Himalaya buried? Testing models of non-lithostatic pressure versus cryptic underthrusting.” Vlaha, D. (PI) and **Zuza, A. V. (co-PI)**, \$1,800 (Spring 2023).
- 2022 Nevada Petroleum and Geothermal Society: “Testing deep burial of the Ruby Mountain-East Humboldt Range metamorphic core complex, northeast Nevada, via structural and thermal reconstructions of the adjacent ranges.” Vlaha, D. (PI) and **Zuza, A. V. (co-PI)**, \$1,000 (Spring 2022).
- 2022 Geological Society of America: “Testing deep burial of the Ruby Mountain-East Humboldt Range metamorphic core complex, northeast Nevada, via structural and thermal reconstructions of the adjacent ranges.” Vlaha, D. (PI) and **Zuza, A. V. (co-PI)**, \$2,300 (Spring 2022).
- 2022 Geological Society of America: “Geologic Mapping and Exhumation History of the Avawatz Mountains, Southern California.” Wes, J. (PI) and **Zuza, A. V. (co-PI)**, \$2,300 (Spring 2022).
- 2020 Geological Society of Nevada: “Great Basin Scholarship.” Levy, D. A. (PI) and **Zuza, A. V. (co-PI)**, \$7,500 (08/19/2020-07/30/2021).
- 2020 Geological Society of America: “Investigating Timescales of Orogenic Plateau Growth in the North American Cordillera using in-situ U-Th-Pb Monazite Petrochronology.” Levy, D. A. (PI) and **Zuza, A. V. (co-PI)**, \$1,500 (Spring 2020).
- 2020 UNR Graduate Student Association: “GSA Research, Travel and Materials Grant.” Levy, D. A. (PI) and **Zuza, A. V. (co-PI)**, \$2,000 (Fall 2020).
- 2019 Geological Society of American-National Science Foundation: “AGeS2 Proposal: Prelude to the ‘plano’: Assessing the contribution of Jurassic crustal thickening to growth of the Cretaceous Nevadaplano.” Levy, D. A. (PI), **Zuza, A. V. (co-PI)**, and Heizler, M. (co-PI), \$10,000 (05/15/2019-05/15/2020).

- 2019 Geological Society of America: “Constraining the late Cenozoic Sierra Nevada-Basin and Range transition: geologic mapping and geochronology in the northern Pine Nut Mountains, Nevada.” Say, M. (PI), and **Zuza, A. V. (co-PI)**, \$2,500 (Spring 2019).
- 2019 Nevada Petroleum and Geothermal Society: “Constraining the late Cenozoic Sierra Nevada-Basin and Range transition: geologic mapping and geochronology in the northern Pine Nut Mountains, Nevada.” Say, M. (PI), and **Zuza, A. V. (co-PI)**, \$1,500 (Spring 2019).
- 2018 Geological Society of America: “Paleotectonic reconstruction of the Last Chance thrust system, Death Valley, California.” Levy, D. A. (PI), and **Zuza, A. V. (co-PI)**, \$1,820 (Spring 2018).
- 2017 Sigma Xi Grant-in-Aid of Research (GIAR): “Timing and style of Permian-Triassic contractional deformation in the White-Inyo- Death Valley region, eastern California,” Levy, D. A. (PI), and **Zuza, A. V. (co-PI)**, \$930 (Fall 2017).

### RESEARCH/ACADEMIC AWARDS

- 2023 Young Scientist Award (Donath Medal), Geological Society of America
- 2015 Dissertation Year Fellowship (UCLA)
- 2014 Office of Instructional Development Mini-Grant (UCLA)
- 2014 Graduate Division (AGEP) Professional Development Award (UCLA)
- 2013 East Asia and Pacific Summer Institutes China Fellow (NSF)
- 2013 Office of Instructional Development Mini-Grant (UCLA)
- 2011 Chancellor’s Prize (UCLA)
- 2011 Chester Buchanan Memorial Award (Cornell)
- 2011 Academic Excellence Award in the Science of Earth Systems major (Cornell)
- 2010 Engineering Learning Initiatives (Cornell)
- 2010 Keck Geology Undergraduate Research (Keck)
- 2010 Keck-ExxonMobil Enhanced Grant (Keck)

### EDITORIAL ACTIVITIES

**Advisory Board member** for OpenGeoSci, a map-based toolset for viewing geologic data (2022-2023)

**Field and office review of NBMG geologic map publications:** Secret Valley, Gordon Creek, Solider Peak, and Silver Zone Pass geologic maps (2019-2023)

**Guest Editor for Special Issue publications** in Terra Nova (2020-2021), Palaeogeography, Palaeoclimatology, Palaeoecology (2020-2021), Journal of the Geological Society (2020-2021), and Frontiers in Earth Sciences (2021).

**Associate Editor** for Geosphere journal (since 2019)

**“Exceptional Reviewer”** for Lithosphere journal (2019)

**Manuscript reviewer (~10-20 papers annually)** for Tectonophysics (since 2013), EPSL (since 2013), Nature Scientific Reports (since 2016), Geology (since 2016), Marine and Petroleum Geology (since 2016), Journal of Geophysical Research – Solid Earth (since 2017), Tectonics (since 2017), Geological Society of America Bulletin (since 2017), Nature Communications (since 2017), Journal of Geosciences (2018), Geomorphology (since 2018), Lithosphere (since 2018), Journal of Geophysical Research – Earth Surface (since 2018), Geosphere (since 2018), Earth-Science Reviews (since 2019), Palaeogeography, Palaeoclimatology, Palaeoecology (since

2019), Journal of Asian Earth Sciences (since 2019), Geological Society of America Memoir (2020), Geophysical Research Letters, (since 2020), Journal of the Geological Society (2020), Basin Research (2020), GSN 2020 Symposium Volume (2020), Frontiers in Earth Sciences (2021), Nature Communications (2021), Science (2021), GSA Today (2022), and Surveys in Geophysics (2022).

**Reviewer and editor of NBMG Report 56 (146 p., 4 plates):** “Geology and Geophysics of White Pine and Lincoln Counties, Nevada, and Adjacent Parts of Nevada and Utah: The Geologic Framework of Regional Groundwater Flow Systems.” (2017)

#### **OTHER SERVICE AND PROFESSIONAL ACTIVITIES**

**2nd Vice-Chair of the Board** of the Structural Geology & Tectonics Division of the Geological Society of America (2023-present)

**Co-nominator for the Outstanding Publication Award** to Elana Miranda from the Structural Geology & Tectonics Division of the Geological Society of America (2023).

**Bascom Mapping Award Committee as a Member-at-Large** for the Geological Society of America (2023-2026)

**Technical Program Co-chair** for Geological Society of America 2023 Cordilleran Section Meeting (2022-2023)

**Session Chair** for Geological Society of America 2023 Cordilleran Section Meeting session “Temporal and Spatial Crustal Thickness Variations in the Mesozoic-Cenozoic North American Cordillera: Processes and Consequences” (2023)

**External reference and letter writer for Promotion and Tenure cases** (×2 in 2022)

**Search Chair** for Economic Geology Associate Professor position (2022-2023)

**Proposal reviewer** for NASA Postdoctoral Program (2022)

**Chair** for revamping and re-evaluating the field program for the geology major at UNR (2022-2023)

**Convener** for American Geophysical Union Fall Meeting session “Tibetan Tectonics and Its Long-Term Effect on the Evolution of Climate, Vegetation, and Environment” (2022)

**Primary convener** for Geological Society of America session “New Insights into the Evolution and Geodynamics of Metamorphic Core Complexes in North America and Around the World” (2022)

**Session Chair** for Geological Society of Nevada 2022 meeting “Cordilleran Geology and Tectonics” (2022)

**Co-chair for GradVenture** weekend for prospective geology graduate students (2021-2023)

**PI of UNR GeoAllies project** to improve diversity and inclusion in the geosciences sponsored via NSF Geoscience Opportunities for Leadership in Diversity (GOLD-EN) (2021-2022)

**Search Committee** for NBMG Mapping Specialist (2021)

**Nevada representative on USGS, CGS, and NBMG collaboration** to compile new geologic map of the Sierra Nevada: “Digital Earth Science Atlas of the Sierra Nevada” including publicly accessible field guides and maps (2020, 2021)

**Fieldtrip leader and organizer** for prospective graduate student GradVenture weekend (2020)

**NASA Image of the Day contributor** on the NASA Earth Observatory:

<https://earthobservatory.nasa.gov/images/148234/chinas-red-rocks-and-rainbow-ridges>.

**Convener** for Geological Society of America Cordillera Section sessions “Tectonic and Magmatic Thickening of Mesozoic North American Cordillera” and “Novel Applications of Microstructural and Geochemical Analyses to Understand Crustal Evolution” (2021)

**Student presentation judge** at the Geological Society of America Cordillera Section Meeting (2021)

**Search Committee** for economic geology NBMG faculty position (2020)

**Convener** for Geological Society of America Annual Meeting session “Advances in Digital Field Methods for Geologic Research, Mapping, and Education” (2020)

Active with Field Camp Learning Outcomes and Designing Virtual Field Exercises in light of COVID-19 pandemic (NSF EAR 2029920) (2020)

**LeMay Teaching Award Committee** (2020)

**Convener** for American Geophysical Union Fall Meeting session “Structure, Sedimentation, and Dynamics of Fold-and-Thrust Belts and Associated Basins on Earth and Other Planets” (2019)

**Proposal reviewer** for National Science Foundation Tectonics Program (2019-2021)

**Search Committee** for field-oriented NBMG Assistant Professor position (2019)

**Convener** for Geological Society of America Annual Meeting session “The Dynamics of Tectono-Sedimentary Systems in the Tibetan Plateau and adjacent areas: insight from multidisciplinary investigations” (2019)

**Session Chair** for Geological Society of Nevada 2020 meeting “Cordilleran Geology and Tectonics” (2019)

**College of Science Field Activities Committee** (2018, 2019)

**NBMG Personnel Committee** for annual evaluations (2018, 2020, 2021)

**Primary convener** for American Geophysical Union Fall Meeting session “Linking crustal deformation at multiple temporal and spatial scales in the Himalayan-Tibetan collisional orogen” (2017)

**Participant** at Early Career Geoscience Faculty workshop - Association of Geoscience Teachers (2017)

**Student presentation judge** at the American Geophysical Union annual meeting (2017, 2022)

**Lead presenter on framework geology research** to the Nevada Bureau of Mines and Geology advisory board (2017-2020)

UNR Graduate Student Association Fall Poster Symposium judge (2016)

Field Conference: Tectonic Evolution of the North American Cordillera organizer (2015-2016)

Fiat lux seminars (UCLA) organizer (2012-2015)

Earth, Planetary, and Space Sciences Colloquium (UCLA) coordinator (2013)

#### **MEMBERSHIP OF SCIENTIFIC ASSOCIATIONS**

Geological Society of America – 2010 to present

American Geophysical Union – 2011 to present

Geological Society of Nevada – 2016 to present

Nevada Petroleum and Geothermal Society – 2017 to present

## **PUBLICATIONS AND MANUSCRIPTS**

2198 citations; 25 h-index (information from Google Scholar accessed October 2023)

### *Submitted manuscripts*

77. Liu, W., Wu, C., Li, J., Zhang, C., Jiang, T., **Zuza, A. V.**, Haproff, P. J., Chen, X., Yue, Y., in revision, Structure and provenance of the Cretaceous Pingshanhu Basin in the Hexi Corridor: Implications for Mesozoic tectonics in the northern Tibetan Plateau: *Geosphere*.
76. Yan, Z., Chen, L., **Zuza, A. V.**, and Meng, Q., in revision, Successive accretions of allochthonous terranes and multiple subduction zone jumps: Implications for the Tethyan evolution: *GSA Bulletin*.

### *Published papers*

75. Cheng, F., **Zuza, A. V.**, Jolivet, M., Mulch, A., Meijer, N., and Guo, Z., in press, Linking source and sink: The timing of deposition of Paleogene syntectonic strata in Central Asia: *Geology*.
74. <sup>&</sup>Li, B., Qi, B., Chen, X., **Zuza, A. V.**, Hu, D., Sun, Y., Wang, Z., and Zhang, Y., in press, Two-phase kinematic evolution of the Qilian Shan, northern Tibetan Plateau: Initial Eocene-Oligocene deformation that accelerated in the mid-Miocene: *GSA Bulletin*.
73. Liu, K., Chen, X., Shao, Z., **Zuza, A. V.**, Qin, X., Han, L., Yu, W., Wang, Z., Shi, X., <sup>&</sup>Li, B., and Wang, Y., 2023, Late Mesozoic intracontinental contraction–extension transition in the Beishan fold-thrust belt, central Asia: Constraints from structural analysis and apatite (U–Th)/He thermochronology: *Tectonics*, v. 42, no. 7.
72. Xu, X., **Zuza, A. V.**, Yin, A., Yu, P., Chen, Z., Zhao, C., Wang, B., Chen, H., Lin, X., Wu, L., Kuang, X., Tian, H., Yin, Q., and Yang, S., 2023, Lower crustal rheology controls strain partitioning and mode of intracontinental deformation: *Tectonics*, in press.
71. Wu, C., **Zuza, A. V.**, <sup>&</sup>Levy, D. A., Li, J., and Ding, L., 2023, Discovery of Permian-Triassic eclogite in North Tibet establishes coeval subduction erosion along ~3000-km-long arc: *Geology*.
70. **Zuza, A. V.**, and Dee, S., 2023, Decoupled Oligocene mylonitic shearing and Miocene detachment faulting in the East Humboldt Range metamorphic core complex, northeast NV: *Geosphere*, in press.
69. Li, J., Li, X., Wu, C., Wu, H., Haproff, P. J., and **Zuza, A. V.**, 2023, Geochronology and geochemistry of the Cryogenian sedimentary rocks and Early Paleozoic mafic dykes of the South Qinling belt: Implications for the tectonic evolution of the northwestern South China craton: *Lithos*, v. 444-445.
68. <sup>&</sup>Levy, D. A., **Zuza, A. V.**, Michels, Z., and DesOrmeau, J. W., 2023, Buoyant doming generates metamorphic core complexes in the North American Cordillera: *Geology*, in press, v., no. 3, p. 290-294.
67. **Zuza, A. V.**, and Cao, W., 2023, Metamorphic Core Complex Dichotomy in the North American Cordillera Explained by Buoyant Upwelling in Variably Thick Crust: *GSA Today*, v. 33, no. 3-4.
66. Haproff, P. J., <sup>&</sup>Levy, D. A., **Zuza, A. V.**, Hooker, J., Heizler, M. T., and Stockli, D., 2023, Cenozoic kinematic history of the Tidding and Lohit thrusts in the northern Indo-Burma Ranges: Implications for crustal thickening and exhumation of Gangdese lower arc crust along the India-Asia suture zone: *Geological Society of American Bulletin*, in press.

65. Wang, Y., &Li, B., **Zuza, A. V.**, Chen, X., Shao, Z., Wang, Z., Sun, Y., and Wu, X., 2023, Cenozoic deformation in the eastern domain of the North Qaidam thrust belt, northern Tibetan Plateau: *Geological Society of America Bulletin*, v. 135, no. 1-2, p. 331-350.
64. Zhang Y., Chen, X., **Zuza A. V.**, Zhang, J., Zhang, B., Zhao, H., Xu, S., and Shao, Z., 2022, Testing the Cenozoic lower crustal flow beneath the Qinling Orogen, northeast Tibetan Plateau: *Journal of Structural Geology*, v. 165.
63. Wu, C., Wang, G., Zhou, Z., Haproff, P. J., **Zuza, A. V.**, and Liu, W., 2022, Paleoproterozoic Plate Tectonics Recorded in the Northern Margin Orogen, North China Craton: *Geochemistry Geophysics Geosystems*, v. 23, no. 11.
62. Li, J., Wu, C., Chen, X., Yin, A., **Zuza, A. V.**, Haproff, P. J., Chen, Y., Wang, L., and Shao, Z., in press, Tectonic Setting of Metamorphism and Exhumation of Eclogite-Facies Rocks in the South Beishan Orogen, Northwestern China: *Geosphere*.
61. Xu, X., Chen, H., **Zuza, A. V.**, Yin, A., Yu, P., Lin, X., Zhao, C., Luo, J., Wang, B., and Yang, S., 2023, Phanerozoic cratonization by plume welding: *Geology*, in press.
60. **Zuza, A. V.**, Cao, W., &Rodriguez, A., DesOrmeau, J. W., and Odlum, M., 2022, Strain localization at brittle-ductile transition depths during Miocene magmatism and exhumation in the southern Basin and Range: *Journal of Structural Geology*, v. 163.
59. **Zuza, A. V.**, &Levy, D. A., Dee, S., DesOrmeau, J. W., &Cheng, F., and Li, X., 2022, Structural architecture and attenuation of the ductile lower plate of the Ruby Mountain-East Humboldt Range metamorphic core complex, northeast Nevada: *Tectonics*, v. 41, no. 8.
58. Yan, Z., Chen, L., **Zuza, A. V.**, Tang, J., Wan, B., and Meng, Q., 2022, The fate of oceanic plateaus: subduction versus accretion: *Geophysical Journal International*, v. 231, no. 2.
57. Zhang, Y., Chen, X., Shao, Z., Zhang, J., **Zuza, A. V.**, &Li, B., and Wang, Z., 2022, Ocean–continent transition of the northeastern Paleotethys during the Triassic: Constraints from Triassic sedimentary successions across the Qinling Orogen, central China: *Journal of Asian Earth Sciences*, v. 232.
56. Liu, Y., Liu, S., Zhao, W., Xia, C., Wu, M., Wang, Q., Wang, Z., Jiang, Y., **Zuza, A. V.**, and Tian, X., 2022, Assessment of heavy metals should be performed before the development of the selenium-rich soil: A case study in China: *Environmental Research*, v. 210.
55. Bian, S., Gong, J., **Zuza, A. V.**, Yang, R., Chen, L., Ji, J., Yu, X., Tian, Y., Yu, Z., Cheng, X., Lin, X., and Chen, H., 2022, Along-strike variation in the initiation timing of the north-trending rifts in southern Tibet as revealed from the Yadong-Gulu rift: *Tectonics*, v. 41, no. 7.
54. Li, J., Wu, C., Chen, X., **Zuza, A. V.**, Haproff, P. J., Yin, A., and Shao, Z., 2022, Tectonic evolution of the Beishan orogen of central Asia: Subduction, accretion, and continent–continent collision during the evolution of the Paleo-Asian Ocean: *Geological Society of America Bulletin*, in press.
53. Sun, C., Li, Z., **Zuza, A. V.**, Zheng, W., Jia, D., He, Z., Hui, G., and Yang, S., 2022, Controls of mantle subduction on crustal-level architecture of intraplate orogens, insights from sandbox modeling: *Earth and Planetary Science Letters*, v. 584.
52. Wu, C., Li, J., **Zuza, A. V.**, Haproff, P. J., Yin, A., and Ding, L., 2022, Paleoproterozoic–Paleozoic tectonic evolution of the Longshou Shan, western North China craton: *Geosphere*, v. 18, no. 3.



51. Jolivet, M., & Cheng, F., **Zuza, A. V.**, Guo, Z., Dauteuil, O., 2022, Large-scale topography of the North Tibetan ranges as a proxy to contrasted crustal-scale deformation modes: *Journal of the Geological Society*, v. 179, no. 4.
50. Wu, C., Li, J., **Zuza, A. V.**, Haproff, P. J., Chen, X., and Ding, L., 2022, Proterozoic-Phanerozoic tectonic evolution of the Qilian Shan and Eastern Kunlun Range, northern Tibet: *Geological Society of America Bulletin*, v. 134, no. 9-10, p. 2179-2205.
49. Wang, Y., Chen, X., Zhang, Y., Yin, Z., **Zuza, A. V.**, Yin, A., Wang, Y., Ding, W., Xu, S., Zhang, Y., & Li, B., and Shao, Z., 2022, Superposition of Cretaceous and Cenozoic deformation in northern Tibet: A far-field response to the tectonic evolution of the Tethyan Orogenic System: *Geological Society of America Bulletin*, v. 134, no. 1-2, p. 501-525, doi.org/10.1130/B35944.1.
48. **Zuza, A. V.**, & Levy, D. A., and Mulligan, S., 2022, Geologic field evidence for overpressure recorded in the North American Cordillera hinterland, northeast Nevada: *Geoscience Frontiers*, doi.org/10.1016/j.gsf.2020.10.006.
47. Xu, X., **Zuza, A. V.**, Chen, L., Yin, A., Zhu, W., Fu, X., Gao, S., Xu, X., Kuang, X., Zhang, F., Wu, L., Lin, X., Chen, H., and Yang, S., 2021, Late Mesozoic to Early Cenozoic extension in the Lower Yangtze region (eastern China) driven by Izanagi-Pacific plate subduction: *Earth-Science Reviews*, v. 221.
46. & Say, M., and **Zuza, A. V.**, 2021, Heterogenous Late Miocene extension in the northern Walker Lane demonstrates vertically decoupled crustal extension: *Geosphere*, v. 17, no. 6, p. 1762-1785, https://doi.org/10.1130/GES02409.1.
45. **Zuza, A. V.**, Henry, C. D., Dee, S., Thorman, C. H., and Heizler, M. T., 2021, Jurassic–Cenozoic tectonics of the Pequop Mountains, NE Nevada, in the North American Cordillera hinterland: *Geosphere*, v. 17, no. 6, p. 2078-2122, https://doi.org/10.1130/GES02307.1.
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## ABSTRACTS AND PRESENTATIONS

### *Oral Presentations*

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44. \*Thorman, C. H., Sandberg, C. A., Henry, C. D., **Zuza, A. V.**, and Ressel, M. W., 2022, The Late Middle Jurassic Elko Orogeny - An Update: Geological Society of Nevada 2022 Vision for Discovery Symposium.
43. \*Harlaux, M., Darin, M. H., **Zuza, A. V.**, Dee, S., Ogilvie, I., and Muntean, J. L., 2022, Nevada Earth MRI Activities 2019-2022: Finding Critical Minerals for the 21st Century: Geological Society of Nevada 2022 Vision for Discovery Symposium.
42. \*&Levy, D. A., Gordon, S., **Zuza, A. V.**, and Kylander-Clark, R. C., 2022, Deciphering the Cenozoic development of the Ruby-East Humboldt metamorphic core complex using monazite, titanite, and allanite petrochronology: Geological Society of America Cordillera Section Meeting, v. 54, no. 2.
41. &Levy, D. A., Gordon, S., **Zuza, A. V.**, and Kylander-Clark, R. C., 2021, Multiple metamorphic events in the Ruby-East Humboldt metamorphic core complex: Insight from monazite petrochronology: American Geophysical Union Fall Meeting Abstracts.
40. Haproff, P. J., &Levy, D. A., **Zuza, A. V.**, and &Hooker, J., 2021, Cenozoic kinematic history of the Tidding and Lohit thrusts in the easternmost Himalaya: Implications for crustal thickening and exhumation of Gangdese lower arc crust along the India-Asia suture zone: Deep 2021 Conference.
39. **Zuza, A. V.**, Xu, X., Haproff, P. J., Wu, C., Chen, L., Liu, Y., and &Li, B., 2021, Cenozoic intracontinental deformation pattern of the Himalayan-Tibetan orogen controlled by pre-Cenozoic suture zones and Permian mantle plumes: Deep 2021 Conference.
28. **Zuza, A. V.**, Dee, S., &Levy, D. A., and DesOrmeau, J., 2021, General shear strain in the Ruby Mountains-East Humboldt Range metamorphic core complex: Geological Society of America Cordillera Meeting.
27. &Levy, D. A., and **Zuza, A. V.**, 2021, Thermomechanical evolution of the Ruby Mountains-East Humboldt Range mylonitic shear zone: Geological Society of America Cordillera Meeting.
26. **Zuza, A. V.**, Xu, X., Wu, C., &Li, B., Haproff, P. J., Yin, A., Chen, H., and Chen, X., 2020, Cenozoic intracontinental deformation pattern of the Himalayan-Tibetan orogen controlled by pre-Cenozoic suture zones and Permian mantle plumes: American Geophysical Union Fall Meeting.
25. **Zuza, A. V.**, Cao, W., DesOrmeau, J. W., &Rodriguez, A., and Odlum, M., 2020 Exploring naturally deformed feldspar mylonites from a brittle-ductile transition: implications for crustal rheology: Geological Society of America Abstracts with Programs, v. 52, no. 6.



24. Dee, S., **Zuza, A. V.**, and Darin, M., 2020, Geologic field mapping with tablet: valuable tools with room for improvement: Geological Society of America Abstracts with Programs, v. 52, no. 6.
23. \***Zuza, A. V.**, 2020, The rise and fall of orogenic plateaus: field studies from collisional and non-collisional orogens: Virtual Seminar, Zhejiang University, August 2020.
22. **Zuza, A. V.**, Henry, C. D., Levy<sup>&</sup>, D. A., Thorman, C. H., and Heizler, M. T., 2020, Probing the Core of the Cordilleran Hinterland via Integrated Field Studies, NE Nevada: Records of Pulsed Mesozoic Contraction and Cenozoic Extension: Geological Society of Nevada Symposium [Meeting cancelled due to COVID pandemic].
21. **Zuza, A. V.**, <sup>&</sup>Levy, D. A., Henry, C. D., Long, S., and Dee, S., 2020, Non-lithostatic pressure in North American core complexes: European Geophysical Union General Assembly.
20. \***Zuza, A. V.**, 2020, Linking crustal deformation with its thermal structure, from fault spacing to strain rates: Virtual Seminar, University of Queensland, April 2020.
19. \***Zuza, A. V.**, 2019, Kinematic evolution of northern Tibet in the context of the Himalayan-Tibetan orogen: Seminar, Chinese Academy of Geological Sciences, August 2019.
18. Thorman, C. H., Sandberg, C. A., Henry, C. D., **Zuza, A. V.**, and Ressel, M. W., 2019, Regional tectonics and conodont CAIs indicate normal burial depths, not Mesozoic thickening, in the Pequop Mountains, NE Nevada: Geological Society of America Abstracts with Programs.
17. \***Zuza, A. V.**, 2019, Linking crustal deformation with its thermal structure, from fault spacing to strain rates: Seminar, University of Nevada, Las Vegas, April 2019.
16. **Zuza, A. V.**, Gavillot, Y., Haproff, P. J., and Chen, Wu, 2018, Kinematic evolution across northern Tibet and Implications for the Himalayan-Tibetan orogen: Geological Society of America Abstracts with Programs, v. 50, no. 6
15. **Zuza, A. V.**, Cao, W., DesOrmeau, J. W., Hinz, N. H., Stockli, D. F., and Odlum, M., 2018, Investigating rotation of the Miocene Searchlight pluton, NV: How extensional tilting promotes rapid cooling and strengthening of the upper crust: Geological Society of America Abstracts with Programs, v. 50, no. 5.
14. Spycher, N., Zehner, R. E., **Zuza, A. V.**, Bill, M., Ayling, B., Hammack, R., Veloski, G., McKoy, M., Cameron, E., Creason, C. G., DiGiulio, J., Dobson, P., Justman, D., Miller, R., Mark-Moser, M., Rose, K., Siler, D., Rackley, I., Supp, J., and Bosshardt, K., 2018, Geothermal Exploration in the Vicinity of Wells, Nevada: 43rd Workshop on Geothermal Reservoir Engineering, Stanford University, February 2018.
13. Haproff, P. J., Yin, A., and **Zuza, A. V.**, 2017, What happens along the flank and corner of a continental indenter? Insights from the easternmost Himalayan orogen and constraints on the models of the India-Asia collision: American Geophysical Union Fall Meeting Abstracts.
12. \***Zuza, A. V.**, 2017, Tectonic evolution of the Qilian Shan, North Tibet: Some Paleozoic and Cenozoic perspectives: Seminar, Chinese Academy of Geological Sciences, Beijing, China, August 2017.
11. \***Zuza, A. V.**, 2016, Testing Tibetan Plateau formation models: Insights from the Qilian Shan-Nan Shan thrust belt: University of Nevada, Reno, NV, March 2016.
10. **Zuza, A. V.**, Yin, A., Wu, C., 2015, The Neoproterozoic-Paleozoic tectonic history of the Qilian Shan and its control on the development of the Tibetan Plateau's northern margin: Geological Society of America Abstracts with Programs, v.47, n. 7.

9. Yin, A., **Zuza, A. V.**, Lin, J., 2015, Strike-slip Fault Spacing and Insights into Continental Tectonics: Seismology-tectonics seminar, Department of Earth and Space Sciences, University of California, Los Angeles, CA, October 2015.
8. \***Zuza, A. V.**, 2015, Cenozoic tectonic evolution of the northeastern Tibetan Plateau: Insights from the Qilian Shan thrust belt: Caltech Geology Club Seminar, Pasadena, CA.
7. **Zuza, A. V.**, Yin, A., 2014, Initial and Boundary Conditions for the Evolution of the Central Asian Orogenic System (CAOS): The Balkatach Hypothesis: Geological Society of America Abstracts with Programs, v. 46, n. 6, p.789
6. **Zuza, A. V.**, Yin, A., 2013, Ductile bookshelf faulting: A new kinematic model for Cenozoic deformation in northern Tibet: American Geophysical Union Fall Meeting Abstracts, v. 1, p. 2.
5. **Zuza, A. V.**, Yin, A., 2013, Testing the TWINS hypothesis: Were Greater North China and Laurentia linked in the Archean and Proterozoic?: Geological Society of America Abstracts with Programs, v. 45, n. 7, p. 463.
4. **Zuza, A. V.**, Zhang, Y., Wu, C., Gao, R., Yin, A., Liu, W., 2013, Tectonic history of the Tibetan Plateau: Insights from the Qilian Shan-Nan Shan thrust belt: EAPSI ceremony, Beijing, China, August 2013.
3. **Zuza, A. V.**, Yin, A., 2013, The Greater China: A Sequential Palinspastic Reconstruction through the Phanerozoic: GSC-GSA Joint Meeting, Chengdu, China, June 2013.
2. \***Zuza, A. V.**, Reith, R. C., 2012, Tectonic Evolution of the Qilian Shan in Northern Tibet: A Paleozoic Orogen Reactivated in the Cenozoic: Seismology-tectonics seminar, Department of Earth and Space Sciences, University of California, Los Angeles, CA, October 2012.
1. **Zuza, A.**, Andronicos, C. L., Kay, S. M., 2011, Late Cenozoic Volcanism in the Hövsgöl Rift Basin: Source, Genesis, and Evolution of Intraplate Volcanism in Mongolia: Keck Geology Consortium, Schenectady, New York, April 2011.

\*Indicates invited talk or colloquium seminar

&Indicates student, postdoc, or visiting scholar

#### *Poster Presentations*

61. &Lee, T., **Zuza, A. V.**, &Vlaha, D., Cao, W., 2023, Exploring the 3-D thermal structure and rheology of California: Constraints from integrated heatflow and seismic observations: Geological Society of America Abstracts with Programs, v. 55.
60. &Reyes, F., Guevara, V., &Vlaha, D., **Zuza, A. V.**, Haproff, P. J., &Branton, E. R., Thomas, J. B., 2023, Along-strike thermobarometric discrepancy in the northwestern Tethyan Himalaya: Geological Society of America Abstracts with Programs, v. 55.
59. &Vlaha, D., **Zuza, A. V.**, &Reyes, F., Guevara, V., &Branton, E. V., Haproff, P. J., Ganbat, A., Genge, M. C., Webb, A. A. G., 2023, Reconstructing the elusive Tethyan Himalaya thrust belt by examining the along-strike thermal structure in the Himachal Himalaya, NW India: Geological Society of America Abstracts with Programs, v. 55.
58. &Adamson, M., Odlum, M., Capaldi, T., **Zuza, A. V.**, Johnsen, R., Smith, E., 2023, Multiphase Deformational History of the Saddle Island Metamorphic Core Complex in the Northern Colorado River Extensional Corridor, Nevada: Geological Society of America Abstracts with Programs, v. 55.
57. **Zuza, A. V.**, &Morebeck, C., &Levy, D. A., Michels, Z. D., and Cao, W., 2023, Characterizing the wallrock strain and kinematic vorticity of hot rising bodies, from the

- Papoose Flat pluton to metamorphic core complexes: Geological Society of America Abstracts with Programs, v. 55, no. 4.
56. **Zuza, A. V.**, and <sup>&</sup>Say, M., 2023, Heterogeneous Miocene extension in the Basin and Range demonstrates vertically decoupled extension with implications for pre-extensional crustal thickness: A case study from the western Basin and Range: Geological Society of America Abstracts with Programs, v. 55, no. 4.
  55. Bian, S., Gong, J., **Zuza, A. V.**, Yang, R., Chen, L., Ji, J., Yu, X., Tian, Y., Yu, Z., Cheng, X., Lin, X., and Chen, H., 2022, Along-Strike Variation in the Initiation Timing of the North-Trending Rifts in Southern Tibet as Revealed from the Yadong-Gulu Rift: American Geophysical Union Fall Meeting.
  54. Haproff, P. J., Burkey, J. D., Gamble, D. J., Levy, D. A., and **Zuza, A. V.**, 2022, Quaternary surficial geologic map of the Dry Mountain normal fault, Death Valley National Park, eastern California: Geological Society of America Fall Meeting.
  53. <sup>&</sup>Vlaha, D., **Zuza, A. V.**, <sup>&</sup>Levy, D. A., and Harlaux, M., 2022, Testing deep burial of the Ruby Mountain-East Humboldt Range metamorphic core complex, northeast Nevada, via structural and thermal reconstructions of the adjacent ranges: Geological Society of America Fall Meeting.
  52. <sup>&</sup>Johns, W., **Zuza, A. V.**, and <sup>&</sup>Vlaha, D., 2022 Late Cenozoic exhumation of the Avawatz Mountains, California: Implications for the initiation of the Garlock fault: Geological Society of America Fall Meeting.
  51. **Zuza, A. V.** and <sup>&</sup>Say, M. C., 2022, Heterogeneous late Miocene extension in the western Basin and Range demonstrates vertically decoupled crustal extension: Geological Society of America Fall Meeting.
  50. <sup>&</sup>Say, M. C. and **Zuza, A. V.**, 2022, Late Miocene Transition between Basin and Range Extension and Walker Lane Tectonics, Northern Pine Nut Mountains, Nevada: New Insights from Geologic Mapping and <sup>40</sup>Ar/<sup>39</sup>Ar Geochronology: Geological Society of Nevada 2022 Vision for Discovery Symposium.
  49. <sup>&</sup>Levy, D. A., and **Zuza, A. V.**, 2022, Tectonic Evolution of a Low-strain Metamorphic Terrane in the Hinterland of the Sevier Orogenic Belt: Insight from the Pilot and Toano Ranges, Elko County, Nevada: Geological Society of Nevada 2022 Vision for Discovery Symposium.
  48. <sup>&</sup>Morebeck, C., and **Zuza, A. V.**, 2022, How do we fit magmatic plutons in the Earth's crust? Testing the 'forceful' pluton emplacement model for the Papoose Flat pluton via microstructural observations: Wolf Pack Discoveries Spring Symposium, University of Nevada, Reno.
  47. **Zuza, A. V.**, Dee, S., <sup>&</sup>Levy, D. A., and DesOrmeau, J., 2021, Deciphering the polyphase history of the Ruby Mountains-East Humboldt Range metamorphic core complex: A dynamic competition between plate-boundary forces, gravitational potential energy, and thermal instabilities: Geological Society of America Abstracts with Programs.
  46. Haproff, P. J., <sup>&</sup>Levy, D. A., **Zuza, A. V.**, and <sup>&</sup>Hooker, J., 2021, Cenozoic slip histories of the Tidding and Lohit thrusts in the northern Indo-Burma Ranges, and implications for crustal thickening and exhumation of the Gangdese lower arc crust along the India-Asia suture zone: Geological Society of America Abstracts with Programs.
  45. <sup>&</sup>Rodriguez, A., Cao, W., and **Zuza, A. V.**, 2021, Defining a brittle-ductile transition across an exhumed crustal section: Geologic mapping and microstructures across the Ireteba

- pluton in the southern Basin and Range: Geological Society of America Cordillera Meeting.
44. <sup>&</sup>Levy, D. A., and **Zuza, A. V.**, 2020, Subcontinental Lithospheric Mantle Strength Modulates Crustal Deformation: An Example from the North American Cordillera: American Geophysical Union Fall Meeting.
  43. Wu, C., **Zuza, A. V.**, Chen, X., Yin, A., <sup>&</sup>Li, B., Haproff, P. J., and Ding, L., 2020, Mesozoic-Cenozoic intracontinental growth and deformation history of the northern Tibetan Plateau and western North China craton: American Geophysical Union Fall Meeting.
  42. Wang, Y., Chen, X., **Zuza, A. V.**, Wang, Y., Xu, S., Zhang, Y., Zhang, Y., <sup>&</sup>Li, B., Ding, W., Yin, Z., and Shao, Z., 2020, Early Cretaceous contractional deformation and structural evolution of Northeastern Tibetan Plateau, northwestern China: Constraining the initial condition of Cenozoic construction of the plateau: American Geophysical Union Fall Meeting.
  41. Wu, C., **Zuza, A. V.**, Haproff, P. J., Chen, X., Yin, A., and Ding, L., 2020, Punctuated orogeny during the assembly of Asia: Proterozoic-Paleozoic geologic history of the North China craton and Tibetan Plateau: Geological Society of America Abstracts with Programs, v. 52, no. 6.
  40. <sup>&</sup>Hooker, J., Haproff, P. J., **Zuza, A. V.**, Yin, A., and Wu, C., 2020, Preliminary constraints on the litho-tectonic framework of the easternmost Himalaya, Siang Valley region, based on geologic mapping and U-Pb zircon geochronology: Geological Society of America Abstracts with Programs, v. 52, no. 6.
  39. <sup>&</sup>Levy, D. A., **Zuza, A. V.**, and Heizler, M. T., 2020, The rise and demise of the Nevadaplano: investigating the mechanisms and timescales of crustal thickening and collapse in the North American Cordillera: Geological Society of America Abstracts with Programs, v. 52, no. 6.
  38. Haproff, P. J., <sup>&</sup>Levy, D. A., **Zuza, A. V.**, and <sup>&</sup>Burkey, J. D., 2020, Preliminary constraints on the Quaternary slip histories of the Eureka Valley fault and the Dry Mountain fault within the Eastern California Shear Zone, Death Valley region: Geological Society of America Abstracts with Programs, v. 52, no. 6.
  37. <sup>&</sup>Levy, D. A., and **Zuza, A. V.**, 2020, Tectonic Evolution of a Low-strain Metamorphic Terrane in the Hinterland of the Sevier Orogenic Belt: Insight from the Pilot and Toano Ranges, Elko County, Nevada: GSN Symposium [Meeting cancelled due to COVID pandemic].
  36. <sup>&</sup>Levy, D. A., and **Zuza, A. V.**, 2020, Mechanisms of Extensional Strain Localization: An Example from Cordilleran Metamorphic Core Complexes: EGU General Assembly.
  35. <sup>&</sup>Levy, D. A., and **Zuza, A. V.**, 2020, Lithologic Influence on Shear Zone Rheology during Large Magnitude Extension: New Insight from Basin and Range Metamorphic Core Complexes: Understanding Earthquakes using the Geological Record, the Royal Society.
  34. <sup>&</sup>Cheng, F., Li, X., **Zuza, A. V.**, and Zhang, J., 2019, Climate-driven erosion and sedimentation in Asia during the Late Cenozoic: American Geophysical Union Fall Meeting Abstracts.
  33. <sup>&</sup>Zhang, J., Cao, W., and **Zuza, A. V.**, 2019, Crustal Tilting and Differential Exhumation of Gangdese Batholith Revealed by Bedrock Pressures: American Geophysical Union Fall Meeting Abstracts.

32. Haproff, P. J., **Zuza, A. V.**, Odlum, M., and Yin, A., 2019, Miocene thrusting in the easternmost Himalayan orogen and Lhasa terrane (northern Indo-Burma Ranges): implications for recent exhumation and clockwise crustal flow at the eastern Himalayan syntaxis: American Geophysical Union Fall Meeting Abstracts.
31. &Levy, D. A., and **Zuza, A. V.**, 2019, UNR Graduate Symposium, Academic, Conference, "Paleozoic-Mesozoic Tectonic Evolution of Southwest Laurentia: Investigating Crustal Deformation during Subduction Initiation along the Ancestral North American Continent: UNR Graduate Student Association.
30. &Li, B., **Zuza, A. V.**, Chen, X., Hu, D., and Shao, Z., 2019, Cenozoic multi-pulse range growth in the Qilian Shan, northern Tibet Plateau, as constrained by geologic mapping and apatite fission track thermochronology: Geological Society of America Abstracts with Programs, v. 51, no. 5.
29. &Levy, D. A., and **Zuza, A. V.**, 2019, Does stress vary in rheologically heterogeneous shear zones? Insights from the mylonites of Secret Pass, Ruby-East Humboldt metamorphic core complex, Nevada: Geological Society of America Abstracts with Programs, v. 51, no. 5.
28. Cao, W., and **Zuza, A. V.**, 2019, Evaluating bulk crustal rheology and force balance in a crustal contraction-extension cycle: Geological Society of America Abstracts with Programs, v. 51, no. 5.
27. Wu, C., **Zuza, A. V.**, Yin, A., Ding, L. D., and Liu, W., 2019, Out-of-sequence evolution of the northern Tibetan Plateau constrained from field studies in the Eastern Kunlun Range: Geological Society of America Abstracts with Programs, v. 51, no. 5.
26. **Zuza, A. V.**, and Cao, W., 2019, Seismogenic thickness of California from earthquake location data: Implications for thermal structure and seismic hazard: Geological Society of America Abstracts with Programs, v. 51, no. 5.
25. &Say, M. C., and **Zuza, A. V.**, 2019, Transitions between the Sierra Nevada, Basin and Range, and Walker Lane in the northern Pine nut Mountains, Nevada: Insights from geologic mapping and Ar/Ar geochronology: Geological Society of America Abstracts with Programs, v. 51, no. 5.
24. **Zuza, A. V.**, Henry, C. D., Ressel, M. W., Thorman, C. H., Dee, S., and Long, S. P., 2019, Probing the core of the North American Cordillera – Insights from geologic mapping of the Pequop Mountains, NE Nevada: Geological Society of America Abstracts with Programs.
23. Dee, S., **Zuza, A. V.**, Henry, C. D., Ressel, M. W., Thorman, C. H., Blackmon, J. E., and Long, S. P., 2019, Insights into Mesozoic contraction, Cenozoic extension, mineralization, and earthquake hazards from geologic mapping of the Pequop Mountains, NE Nevada: Geological Mapping Forum.
22. \*Henry, C. D., **Zuza, A. V.**, Thorman, C. H., Resell, M. W., and Dee, S., 2018, Geologic Mapping of the Pequop Mountains, NE Nevada: Exploring Basic and Applied Topics in the Easternmost Ruby Mountains-East Humboldt Range Metamorphic Core Complex (Invited): American Geophysical Union Fall Meeting Abstracts.
21. Haproff, P. J., Odlum, M., Yin, A., **Zuza, A. V.**, and Stockli, D. F., 2018, Out of sequence thrusting in the northern Indo-Burma Ranges: evidence from preliminary zircon (U-Th)/He thermochronology: American Geophysical Union Fall Meeting Abstracts.

20. Wu, C., Zhou, Z., **Zuza, A. V.**, Wang, G., Liu, C., and Jiang, T., 2018, New ~1.90 Ga Bayan Obo mélange along the northern margin of the North China craton: Implications for the assembly of Columbia supercontinent: American Geophysical Union Fall Meeting.
19. <sup>&</sup>Levy, D. A., and **Zuza, A. V.**, 2018, Geologic Map of the Hanging Rock Canyon 7.5' Quadrangle, Inyo County, California: Geological Society of America Abstracts with Programs, v. 50, no. 6.
18. **Zuza, A. V.**, 2018, Testing a rotating fault model for the Garlock fault: Geological Society of America Abstracts with Programs, v. 50, no. 5.
17. <sup>&</sup>Levy, D. A., **Zuza, A. V.**, and Cashman, P., 2018, Tectonic reconstruction of the Last Chance thrust system, Death Valley National Park, California: Geological Society of America Abstracts with Programs, v. 50, no. 5.
16. **Zuza, A. V.**, <sup>&</sup>Levy, D. A., Wang, Z., Xiao, X., and Chen, X., 2017, Kinematic development of the Tibetan Plateau's northern margin: A traverse across the Qilian Shan-Nan Shan thrust belt: American Geophysical Union Fall Meeting Abstracts.
15. Spycher, N., Zehner, R., **Zuza, A. V.**, Bill, M., Ayling, B., Hammack, R., Veloski, G., McKoy, M., Cameron, E., DiGiulio, J., Dobson, P., Justman, D., Miller, R., Mark-Moser, M., Rose, K., Siler, D., Rackley, I., Supp, J., and Bosshardt, K., 2017, Geothermal Exploration for Direct Use of Hot Water in Wells, Nevada: Geothermal Technologies Office (GTO) Project Peer Review.
14. **Zuza, A. V.**, Carlson, C. W., and <sup>&</sup>Levy, D. A., 2017, What can strike-slip fault spacing tell us about the evolution of the Walker Lane and western North America?: Geological Society of America Fall Meeting Abstracts.
13. **Zuza, A. V.**, <sup>&</sup>Li, B., Tremblay, M. M., Chen, X., Shuster, D. L., and Yin, A., 2016, Cenozoic Development of the Northern Tibetan Plateau and the Onset of Thrust and Strike-slip Faulting: Constraints from Apatite and Zircon (U-Th)/He and Fission-Track Thermochronometry: American Geophysical Union Fall Meeting Abstracts.
12. Wu, C., Yin, A., **Zuza, A. V.**, Liu, W., 2015, U-Pb zircon geochronology from the basement of the Central Qilian Shan: Implications for tectonic evolution of northeastern Tibetan Plateau: American Geophysical Union Fall Meeting Abstracts.
11. **Zuza, A. V.**, Yin, A., Lin, J., 2015, The stress shadow effect: a mechanical analysis of the evenly-spaced parallel strike-slip faults in the San Andreas fault system: American Geophysical Union Fall Meeting Abstracts.
10. Yin, A., **Zuza, A. V.**, Pappalardo, R., 2015, The Stress Shadowing Effect of the Tiger-stripe Fractures on Saturn's Moon Enceladus: American Geophysical Union Fall Meeting Abstracts.
9. Lin, J., **Zuza, A.V.**, Yin, A., 2015, Quantifying the Relationship between Strike-slip Fault Spacing and Brittle Crust Thickness in Continental Settings based on Sandbox Experiments: American Geophysical Union Fall Meeting Abstracts.
8. Yin, A., **Zuza, A. V.**, 2015, Spacing of the Tiger-stripe Fractures on Saturn's Moon Enceladus: A Mechanical Model and its Implications for the Ice-shell Thickness of the South Polar Terrain: JPL-UCLA Planetary Science Workshop, Los Angeles, CA, May 2015.
7. **Zuza, A. V.**, Yin, A., Li, J., 2014, Deciphering the coupled Paleozoic and Cenozoic tectonic history of the Qilian Shan, northeastern Tibetan Plateau: American Geophysical Union Fall Meeting Abstracts, v. 1, p. 4563.

6. **Zuza, A. V.**, Reith, R. C., Yin, A., Dong, S., Liu, W., Zhang, Y., Wu, C., 2013, Structural and tectonic framework of the Qilian Shan-Nan Shan thrust belt, northeastern Tibetan Plateau: *Acta Geologica Sinica (English Edition)*, v. 87, n. s1, p. 1-3.
5. **Zuza, A. V.**, Yin, A., Reith, R. C., Dong, S., Liu, W., Wu, C., Wu, L., Gong, J., Zhang, J., 2012, Cenozoic tectonic development of the Qilian Shan-Nan Shan (northeastern Tibetan Plateau): A preliminary synthesis: *American Geophysical Union Fall Meeting Abstracts*, v. 1, p. 2635.
4. Reith, R. C., Yin, A., **Zuza, A. V.**, Dong, S., Liu, W., Wu, C., Wu, L., Gong, J., Zhang, J., 2012, Structural framework of the Cenozoic Qilian Shan-Nan Shan thrust belt, northeastern Tibetan Plateau: *American Geophysical Union Fall Meeting Abstracts*, v. 1, p. 2675.
3. **Zuza, A.**, Andronicos, C. L., Kay, S. M., 2011, Late Cenozoic Volcanism in the Hövsgöl Rift Basin: Source, Genesis, and Evolution of Intraplate Volcanism in Mongolia: Cornell Undergraduate Research Board Spring Forum, Ithaca, New York, April 2011.
2. **Zuza, A.**, Andronicos, C. L., Kay, S. M., 2011, Late Cenozoic Volcanism in the Hövsgöl Rift Basin: Source, Genesis, and Evolution of Intraplate Volcanism in Mongolia: Engineering Learning Initiatives, Ithaca, New York, April 2011.
1. Gravley, D. M., Wandres, A., Bova, S.C., House, B., Kravitz, K.A., Spera, S., Walsh, D., Windham, C.J., **Zuza, A.**, Dohaney, J., 2010, Undergraduate research projects on Mt. Doom in New Zealand: A new model for study abroad experiences: *Geological Society of America Abstracts with Programs*, v. 42, n. 5, p. 439.

\*Indicates invited presentation

&Indicates student or visiting scholar

## **STUDENTS AND SCHOLARS ADVISED**

### *Primary*

Terry Lee– PhD candidate (started 2023)

Dominik Vlaha – PhD candidate (started 2021)

Wes Johns – 2023 MS degree

Cutter Morebeck – 2022 undergraduate research

Drew A. Levy – 2022 PhD degree

Angelica Rodriguez – 2021 MS degree

Michael Say – 2020 MS degree

### *Committee member*

Alexander Hoinville – MS candidate (started 2021)

Sophie Rothman – PhD candidate (started 2019)

Nina Miller – PhD candidate (started 2019)

Gary McGaughey – 2023 MS degree

Jiaming Yang – 2022 PhD degree

Nolan Dellerman – 2021 MS degree

Erika Grog – 2021 MS degree

Emily Dektar – 2020 MS degree

Haibin Yang – 2020 PhD degree (external committee member, University of Melbourne)

### *Visiting scholar*

Bing Li – PhD degree, Chinese Academy of Geological Sciences (2019-2020)

### *Post-doctoral fellow*

Feng Cheng (2020-2021)