

James R. Worthington, PhD

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Research Scientist
Department of Geosciences
The University of Arizona
Tucson, AZ 85705

EDUCATION

- 2017 **PhD, Geosciences: University of Arizona (UA)**, Department of Geosciences
Dissertation: *Paleozoic–Cenozoic Tectonics of Central Asia*
Advisor: Paul Kapp
- 2011 **Geophysics Field Camp: Summer of Applied Geophysical Experience (SAGE)**, Santa Fe, New Mexico
- 2011 **BS, Geological Sciences and Geophysics: University of California, Santa Barbara (UCSB)**, Department of Earth Science
Thesis: *Distinguishing Eclogite from Peridotite: EBSD-based Calculations of Seismic Velocities*
Advisor: Brad Hacker
- 2010 **Geology Field Camp: UCSB**, Schell Creek and Snake Ranges, eastern Nevada

PROFESSIONAL EXPERIENCE

- 2025– **Research Scientist: UA**, Department of Geosciences
- 2021–2025 **Postdoctoral Scholar and Staff Research Associate: University of California, San Diego (UCSD)**, Scripps Institution of Oceanography
- 2023 **Database Support Engineer: Canary Systems**, Tucson, AZ
- 2018–2020 **Postdoctoral Scholar: California Institute of Technology (Caltech)**, Division of Geological and Planetary Sciences
- 2016–2017 **Research Specialist: Arizona Radiogenic Helium Dating Laboratory (ARHDL)**
- 2014–2015 **Fulbright U.S. Student Fellow: Freiberg University of Mining and Technology (TUBF)**, Institute for Geology, Germany
- 2011–2017 **Graduate Teaching and Research Assistant: UA**, Department of Geosciences

RESEARCH INTERESTS

Methodologies: field geology; petrology; structural geology; geological mapping; geo–thermochronology; geochemistry; phase-equilibrium modelling.

Petro-tectonic processes: orogenic system evolution; arc + intraplate magmatism; gneiss-dome metamorphism and exhumation; oceanic plateau formation; subduction initiation and thermal evolution; continental plateau uplift; triple-junction instability.

FIELD EXPERIENCE

- 2024 (May–Jun) **UCSD: Guadalupe Island** (Baja California, México) - [link](#)
- 2023 (Apr) **UA: Cedros Island subduction complex** (Baja California Sur, México)
- 2021 (Oct) **UCSD: Vizcaíno subduction and ophiolite complex** (Baja California Sur, México)
- 2018 (Jun–Aug) **Caltech: Bayankhongor Ophiolite** (Central Mongolia)
- 2018 (Mar) **Caltech: Vizcaíno ophiolite complex** (Baja California Sur, México)

2015 (Mar)	TUBF: Pannonian Basin (northern Bosnia and Herzegovina)
2014 (May–Jul)	UA: Tajik Basin and South Pamir Mountains (Tajikistan)
2013 (Jun–Jul)	UA: South Pamir Mountains and southwestern Tian Shan Mountains (Tajikistan)
2012 (Aug–Sep)	UA: Southwestern Tian Shan Mountains and Darvaz Range (Tajikistan)
2011–2017	UA: Laramide and Basin-and-Range geology (southern Arizona), various day and weekend field trips for graduate geology courses
2011 (Jun–Jul)	SAGE geophysics field camp: Rio Grande Rift (New Mexico), use of seismic reflection/refraction, gravity, magnetotellurics, transient electromagnetics, ground-penetrating radar
2010 (Jun–Jul)	UCSB geology field camp: Schell Creek and Snake Ranges (eastern Nevada), metamorphic-core-complex geology
2009–2010	UCSB: Mojave Desert (California/Arizona/Nevada), various undergraduate geology courses
2007–2011	UCSB: Santa Cruz Island (southern California), field assistant for geomorphology investigations of terrace uplift and gully erosion

NATIONAL SCIENCE FOUNDATION GRANTS

- 2023–2026 *Do seamounts on fossil oceanic spreading centers record triple-junction migration or mantle-plume activity? Guadalupe Island, Mexico as an archetype.* NSF EAR #2236476 Petrology and Geochemistry, Marine Geology and Geophysics. Co-Principal Investigator (Postdoctoral Scholar at UCSD), \$409,115. [link](#)

PUBLICATIONS

IN PREPARATION

- (15) Wang, J., Kapp, P., He, J., Holder, R., Hernández-Urbe, D., **Worthington, J.R.**, in-prep d. *Polycyclic metamorphism and exhumation of subduction complex rocks, Cedros Island, Baja California.* For submission to Geological Society of America Bulletin.
- (14) **Worthington, J.R.**, Chin, E., and Palin, R., in-prep c. *Hydration state of the Colorado Plateau lower crust from water content in xenoliths.* For submission to Earth and Planetary Science Letters.
- (13) **Worthington, J.R.**, Bold, U., Bucholz, C.E., Crowley, J.L., Macdonald, F., Löwe, G., and Erdene, A., in-prep b. *Early geological evolution of the Central Asian orogenic system, Mongolia: 2. Cryogenian–Ordovician tectonics of the ophiolitic Bayankhongor suture.* For submission to Journal of the Geological Society.
- (12) **Worthington, J.R.**, Bucholz, C.E., and Erdene, A., in-prep a. *Early geological evolution of the Central Asian orogenic system, Mongolia: 1. Petrology and oceanic-plateau origin of the Cryogenian Bayankhongor ophiolite.* For submission to Journal of the Geological Society.

PUBLISHED

- (12) **Worthington, J.R.**, Chin, E.J., and Palin, R.M., 2024. *Metasomatism of the continental crust and its impact on surface uplift: Insights from reactive transport modeling.* Journal of Metamorphic Geology. doi: 10.1111/jmg.12772 - [link](#)
- (11) Scoggin, S.H., Reiners, P.W., Shuster, D.L., Davis, G.H., Ward, L.A., **Worthington, J.R.**, Nickerson, P.A., and Evenson, N.S., 2021. *(U-Th)/He and ⁴He/³He thermochronology of secondary oxides in faults and fractures:*

A regional perspective from southeastern Arizona. Geochemistry, Geophysics, Geosystems. doi: 10.1029/2021GC009905 - [link](#)

- (10) Villarreal, D., Robinson, A.C., Carrapa, B., **Worthington, J.R.**, Chapman, J.B., Oimahmadov, I., Gadoev, M., and MacDonald, B., 2020. *Sedimentological evidence for Late Triassic crustal suturing of the Central and Southern Pamir*. Journal of Asian Earth Sciences. doi: 10.1016/j.jaesx.2019.100024 - [link](#)
- (9) **Worthington, J.R.**, Ratschbacher, L., Stübner, K., Khan, J., Malz, N., Schneider, S., Kapp, P., Chapman, J.B., Stevens Goddard, A., Brooks, H.L., Lamadrid, H., Steele-MacInnis, M., Rutte, D., Johckheere, 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. doi: 10.1029/2019tc005735 - [link](#)
- (8) Chapman, J.B., Carrapa, B., Decelles, P.G., **Worthington, J.R.**, Mancin, N., Cobianchi, M., Stoica, M., Wang, X., Gadoev, M., and Oimahmadov, I., 2019. *The Tajik Basin: a composite record of sedimentary basin evolution in response to tectonics in the Pamir*. Basin Research. doi: 10.1111/bre.12381 - [link](#)
- (7) Chapman, J.B., Robinson, A.C., Carrapa, B., Villarreal, D., **Worthington, J.R.**, DeCelles, P.G., Kapp, P., Gadoev, M., Oimahmadov, I., and Gehrels, G., 2018. *Cretaceous shortening and exhumation in the South Pamir terrane*. Lithosphere, v. 10, no. 4, p. 494–511. doi: 10.1130/L691.1 - [link](#)
- (6) Chapman, J.B., Scoggin, S., Kapp, P., Carrapa, B., Ducea, M.N., **Worthington, J.R.**, Oimahmadov, I., 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 - [link](#)
- (5) Zanchetta, S., **Worthington, J.R.**, Angiolini, L., Leven, E.J., Villa, I.M., and Zanchi, A., 2018. *The Bashgumbaz Complex (Tajikistan): Arc obduction in the Cimmerian orogeny of the Pamir*. Gondwana Research, v. 57, p. 170–190. doi: 10.1016/j.gr.2018.01.009 - [link](#)
- (4) Chapman, J., Carrapa, B., Ballato, P., DeCelles, P., **Worthington, J.**, Oimahmadov, I., Gadoev, M., and Ketcham, R.A., 2017. *Intracontinental subduction beneath the Pamir Mountains: Constraints from thermokinematic modeling of shortening in the Tajik fold-and-thrust belt*. Geological Society of America Bulletin, v. 129, no. 11–12, p. 1450–1471. doi: 10.1130/B31730.1 - [link](#)
- (3) **Worthington, J.R.**, Kapp, P., Minaev, V., Chapman, J.B., Mazdab, F.K., Ducea, M.N., Oimahmadov, I., and Gadoev, 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, no. 10, p. 1861–1912. doi: 10.1002/2016tc004285 - [link](#)
- (2) Angiolini, L., Campagna, M., Borlenghi, L., Grunt, T., Vachard, D., Vezzoli, G., Vuolo, I., **Worthington, J.R.**, Nicora, A., and Zanchi, A., 2016. *Brachiopods from the Cisuralian–Guadalupian of Darvaz, Tajikistan and implications for Permian stratigraphic correlations*. Palaeoworld, v. 25, no. 4. doi: 10.1016/j.palwor.2016.05.006 - [link](#)
- (1) **Worthington, J.R.**, Hacker, B.R., and Zandt, G., 2013. *Distinguishing eclogite from peridotite: EBSD-based calculations of seismic velocities*. Geophysical Journal International, v. 193, no. 1, p. 489–505. doi: 10.1093/gji/ggt004 - [link](#)

ACKNOWLEDGEMENT

- (2) Gauna, C. and Sternes, P.C., 2024. *Novel aerial observations of a possible newborn white shark (Carcharodon carcharias) in Southern California*. Environmental Biology of Fishes. doi: 10.1007/s10641-024-01512-7 - [link](#)
- (1) Perroy, R.L., Bookhagen, B., Asner, G.P., and Chadwick, O.A., 2010. *Comparison of gully erosion estimates using airborne and ground-based LiDAR on Santa Cruz Island, California*. Geomorphology. doi: 10.1016/j.geomorph.2010.01.009 - [link](#)

CONFERENCE PRESENTATIONS

UPCOMING

- (17) Muller, J.K., Ruwe, R., Varley, N., Rodriguez Delgado, M., Reyes Torres, A., **Worthington, J.R.**, Chin, E.J., 2025. *Newly identified hydromagmatic volcanoclastics of Isla Guadalupe, Mexico*. International Association of Volcanology and Chemistry of the Earth's Interior Scientific Assembly 2025 (Geneva).
- (16) Heavey, K., Chin, E., **Worthington, J.R.**, Muller, J., and Wang, K., 2025. *Petrographic Atlas of Volcanism on Guadalupe Island, Mexico*. 2025 Mesa College Research Conference (San Diego).

PREVIOUS

- (15) Wang, J., Hernández Uribe, D., Holder, R., Kapp, P., He, J., and **Worthington, J.R.**, 2025. *Polycyclic metamorphism and exhumation of subduction complex rocks, Cedros Island, Baja California*. GSA 2025 Cordilleran Section Meeting (Sacramento), *GSA Abstracts With Programs*, v. 57, No. 4 (2025CD-409385).
- (14) Constable, C., Chin, E.J., Sweet, M., and **Worthington, J.R.**, 2024. *The Scripps-GEO Scholars program: a midterm perspective*. AGU 2024 Fall Meeting (Washington, DC), (ED43A-08).
- (13) **Worthington, J.R.**, Bucholz, C.E., Bold, U., Macdonald, F., and Löwe, G., 2019. *Neoproterozoic tectonic evolution of the ophiolitic Bayankhongor suture zone, Central Asian Orogenic Belt (Central Mongolia)*. GSA 2019 Annual Meeting (Phoenix), *GSA Abstracts with Programs*, v. 51, 5 (334401)
- (12) **Worthington, J.R.**, Ratschbacher, L., Stübner, K., Khan, J., Malz, N., Schneider, S., Kapp, P., Chapman, J.B., Stevens Goddard, A., Brooks, H.L., Lamadrid, H., Steele-MacInnis, M., Rutte, D., Johckheere, R., Pfänder, J., Hacker, B.R., Oimahmadov, I., and Gadoev, M., 2019. *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*. 34th Himalaya–Karakoram–Tibet Workshop. Bozeman, MT, USA.
- (11) Chapman, J.B., Scoggin, S., Kapp, P., Carrapa, B., Ducea, M.N., **Worthington, J.**, Oimahmadov, I., and Gadoev, M., 2017. *Magmatic evidence for localized lithospheric delamination resulting from continental collision in the Pamir-Tibet orogen*. GSA 2017 Annual Meeting (Seattle), *GSA Abstracts with Programs*, v. 47, 7-39 (305706).
- (10) Villareal, D., Robinson, A.C., **Worthington, J.R.**, Chapman, J.B., Carrapa, B., Oimahmadov, I., Macdonald, B., and Gadoev, M., 2017. *Sedimentological evidence for early Mesozoic crustal suturing of the Pamir*. GSA 2017 Annual Meeting (Seattle), *GSA Abstracts with Programs*, v. 49, 6 (303094).
- (9) Zhong, L., Wang, B., Liu, H., Kapp, P., **Worthington, J.R.**, Cao, Y., and He, Z., 2017. *The mid–lower-crustal Chinese Central Tianshan: Implications for continental growth and accretionary orogenesis*. Geological Association of Canada-Mineralogical Association of Canada annual meeting 2017 (Kingston), GAC-MAC 2017 v. 40, 436.
- (8) Zanchetta, S., **Worthington, J.R.**, Angiolini, L., and Zanchi, A., 2017. *The Bashgumbaz “ophiolites” of SE Pamir (Tajikistan): Time constraints for the South Pamir accretion to Eurasia*. EGU General Assembly 2017 (Vienna), *Geophysical Research Abstracts*, v. 19 (EGU2017-5066).
- (7) Zanchetta, S., Zanchi, A., **Worthington, J.R.**, Malaspina, N., and Angiolini, L., 2016. *The Cimmerian obduction of the Bashgumbaz ophiolites (South Pamir, Tajikistan)*. 88th Congress of the Italian Geological Society 2016 (Napoli).
- (6) Schneider, S., **Worthington, J.R.**, Pfänder, J., and Ratschbacher, L., 2015. *Dating deformation along major Pamir shear zones with the Ar-Ar in situ technique*. Goldschmidt 2015 (Prague).
- (5) **Worthington, J.R.**, Kapp, P., Minaev, V., Chapman, J.B., Oimahmadov, I., and Gadoev, M., 2015. *Late Paleozoic tectonomagmatic evolution of the western southern Tian Shan, Tajikistan*. EGU General Assembly 2015 (Vienna), *Geophysical Research Abstracts*, v. 17 (EGU2015-9227-1).

- (4) Chapman, J.B., Robinson, A.C., **Worthington, J.R.**, Carappa, B., Kapp, P., Gadoev, M., and Oimahmadov, I., 2015. *Mesozoic shortening and syn-tectonic sedimentation in the southern Pamir: Implications for gneiss-dome metamorphism and crustal thickening*. GSA 2015 Annual Meeting (Baltimore), *GSA Abstracts with Programs*, v. 47, 7-39.
- (3) **Worthington, J.R.**, Kapp, P., Minaev, V., Chapman, J.B., Oimahmadov, I., and Gadoev, M., 2014. *Late Paleozoic tectonomagmatic evolution of the western southern Tian Shan, Tajikistan*. Darius Programme Final Symposium (Paris).
- (2) **Worthington, J.R.**, Hacker, B.R., and Zandt, G., 2012. *Distinguishing eclogite from peridotite: EBSD-based calculations of seismic velocities*. AGU 2012 Fall Meeting (San Francisco), (DI24A-07).
- (1) Braile, L.W., Bailey, B.L., Bailey, J., Bunening, J., Christianson, R., Davy, R., Judy, B., Kiyani, D., Kordy, M.A., Pazos, C., Roza, J., Wilks, M., **Worthington, J.R.**, Baldrige, W.S.S., Biehler, S., Ferguson, J.F., McPhee, D.K., and Snelson, K., 2011. *Seismic and gravity investigation of the eastern boundary of the Santo Domingo basin, Rio Grande rift, New Mexico*. AGU 2011 Fall Meeting (San Francisco), (T21A-2316).

INVITED TALKS

2024-01-22: [UCSD](#) (San Diego, CA, USA), **Geoscience / Marine Chemistry and Geochemistry Seminar**

Regional-tectonic influence of oceanic-plateau accretion on the Central Asian orogenic system during the late Neoproterozoic to early Paleozoic: The ophiolitic Bayankhongor suture, Mongolia

2022-11-09: [U. Southern California](#) (Los Angeles, CA, USA), **Lithospheric Dynamics seminar**

Metasomatism of the lower crust can drive anorogenic plateau formation

2021-02-16: [UCSD](#) (San Diego, CA, USA), **Petrology, geochemistry, and tectonics seminar**

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

2020-02-19: [U. Southern California](#) (Los Angeles, CA, USA), **Lithospheric Dynamics seminar**

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

2018-02-01: [Caltech](#) (Pasadena, CA, USA), **Geoclub seminar**

Miocene, syn-collisional, convergence-parallel (~N–S) extensional exhumation of the Alichur dome, South Pamir, Tajikistan.

2015-04-30: [U. Potsdam](#) (Potsdam, Germany), **Tectonics seminar**

Late Paleozoic tectonomagmatic evolution of the western southern Tian Shan, Tajikistan

TEACHING EXPERIENCE

Instructor

2025 UA: GEOS 251, *Physical Geology*, co-taught with Prof. Paul Kapp

Teaching Assistant

2021 UA: GEOS 251, *Physical Geology*, with Prof. Paul Kapp

2016–2017 UA: GEOS 356, *Petrology*, with Prof. Mihai Ducea

2013–2014 UA: GEOS 356, *Petrology*, with Prof. Jibamitra Ganguly

2012 UA: GEOS 304, *Structural Geology*, with Prof. George Davis

2011 UA: GEOS 170C1, *Life on Earth*, with Prof. Owen Davis

Guest Lecturer

2025 UCSD: SIO 152, *Petrology and Petrography*, with Prof. Emily Chin
Alkaline volcanism on Guadalupe Island, Mexico

2024 UCSD: Scripps-GEO, *Petrology*, with Prof. Cathy Constable
Geoscience perspectives, reading scientific papers, and preparing conference abstracts and posters

2022 UCSD: SIO 75, *Historical Geology*, with Prof. Emily Chin
Paleogene paleogeography (including lab) of the India–Eurasia collision

2019 GEOS 508, *Tectonic Petrology*, with Prof. Mihai Ducea
Petrology and architecture of the Bayankhongor ophiolite, Mongolia

Mentor

2025 Kyle Heavey, Scripps-GEO intern and undergraduate, San Diego Miramar College: *Petrographic atlas of volcanism on Guadalupe Island, Mexico*.

2024–2025 Kris Wang, undergraduate, UCSD: *Mineral chemistry of volcanic rocks from Guadalupe Island, Mexico*.

2019 Anar Erdene, undergraduate, Mongolian University of Science and Technology: *Whole-rock geochemistry of the Bayankhongor ophiolite*.

OUTREACH EXPERIENCE (UCSD)

2024–2025 Coordinator for Scripps Institution of Oceanography Geosciences Education and Opportunities (Scripps-GEO) Program, with Prof. Cathy Constable - [link](#)

SHORT COURSES

2015 Microtectonics Course, Johannes Gutenberg Universität Mainz (Mainz, Germany).
Instructor: Cees Passchier

2011 U/Pb Geochronology Short Course, AGU 2011 Fall Meeting (San Francisco).
Instructors: George Gehrels, Bradley Hacker, and Andrew Kylander-Clark

SCHOLARSHIPS AND AWARDS

2022 SIO Earth Section small grant (UCSD), \$5000

2019 Himalaya–Karakoram–Tibet workshop (Bozeman, MT, USA) travel stipend, \$1000

2014 Galileo Circle Scholarship, UA, \$1000

2014 Research Grant, Geological Society of America (GSA), \$900

2013 Peter J. Coney scholarship fund, UA Department of Geosciences, \$1500

2012 ChevronTexaco Geology Fellowship, UA Department of Geosciences, \$1500

2012 Bruce L. "Biff" Reed Research Award, GSA

2012 Structural Geology and Tectonics Division Student Research Grant Award, GSA

2012 Research Grant, GSA, \$2500

- 2012 Grants-in-Aid Gustavus E. Archie Memorial International Grant, American Association of Petroleum Geologists, \$2000
- 2011 Charles D. Woodhouse Award, UCSB Department of Earth Science
- 2011 Distinction in the major, UCSB Department of Earth Science
- 2011 Outstanding Academic Achievement Award, UCSB
- 2011 Robert M. Norris Prize in Field Geology, UCSB Department of Earth Science
- 2011 Venoco Field Scholarship, Venoco, Inc., \$1000
- 2010 Scholarship, American Institute of Professional Geologists, \$500
- 2009 Scholarship, Victor Valley Gem and Mineral Club, \$1,000

ACADEMIC JOURNAL AND PROPOSAL REVIEWERSHIP

Academic Journals: *American Journal of Science*, *G-cubed*, *Geology*, *Gondwana Research*, *GSA Bulletin*, *JGR Solid Earth*, *Lithos*, *Tectonics*

Grant Proposals: *National Science Foundation*

PROFESSIONAL AFFILIATIONS

Geological Society of America, American Geophysical Union

MEDIA

The Elusive Origin of Guadalupe Island. *Scripps Institution of Oceanography Dispatches*, Oct 2024

<https://scripps.ucsd.edu/news/elusive-origin-guadalupe-island>

Has great white shark newborn been caught on film for the first time? *BBC*, Jan 2024

<https://www.bbc.com/news/technology-68104861>

Program brightens chances to go abroad. *University of Arizona Daily Wildcat*, Feb 2015

<http://www.wildcat.arizona.edu/article/2015/02/program-brightens-chances-to-go-abroad>

COLLABORATORS

Germany

TUBF: Lothar Ratschbacher, Susanne Schneider, Jörg Pfänder,

U. Bonn: Daniel Rutte

U. Potsdam: Konstanze Stübner

Freidrich Schiller U. Jena: Georg Löwe

Italy

U. Milan: Lucia Angiolini

U. Milan Bicocca: Andrea Zanchi, Stefano Zanchetta

México

Ensenada Center for Scientific Research and Higher Education (CICESE): Bodo Weber

Island Ecology and Conservation Group (GECI): Federico Méndez Sánchez, Luciana Luna Mendoza, Julio Hernández Montoya

Autonomous U. Baja California, Ensenada (UABC): Ronald Spelz Madero, Ismael Yarbuh Lugo, Karina Gómez Álvarez

U. Colima (UdeC): Nick Varley

Mongolia

Mongolian U. Science and Technology: Uyanga Bold

Spain

U. Zaragoza: Vanessa Colás-Ginés

Tajikistan

Tajik Academy of Sciences: Vladislav Minaev, Ilhomjon Oimahmadov, Mustafo Gadoev

United Kingdom

U. Oxford: Richard Palin

United States

Caltech: Claire Bucholz

Rowan U.: Andrea Stevens-Goddard

UA: Paul Kapp, Mihai Ducea, Pete Reiners, Frank Mazdab, George Zandt, Mauricio Ibañez-Mejia, Allen Schaen

UCSB: Francis Macdonald, Brad Hacker

UCSD: Emily Chin, Paterno Castillo, Cathy Constable

U. Illinois, Chicago: David Hernández-Uribe

U. Michigan: Robert Holder

U. Texas El Paso: Jay Chapman